THE VIRGINIA SECTION
OF
THE AMERICAN CHEMICAL SOCIETY
THE FIRST SEVENTY-FIVE YEARS

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PREFACE

In 1990 the Virginia Section of The American Chemical Society celebrated its seventy-fifth anniversary. The Section received its charter on April 9, 1915, a charter signed by President Charles H. Herty and Secretary Charles L. Parsons.

Periodically during the course of the seventy-five years, members of the Virginia Section have undertaken the task of bringing the history of the Section up to date. On those occasions, the members of a committee appointed by the Section Chairman have each written a portion of that period’s history, which was then published in consecutive issues of The Bulletin. These segments, written contemporaneously and rich in the immediacy of detail that can bring a previous time vividly before us, are republished here verbatim except for minor clarifications of punctuation and the omission of repetitive opening review statements. They constitute the history of the Section through 1959. The history of the next thirty years, 1960-1990, has been written by the Editor, [Powell] drawing upon the reports for each of those years.

Thus, in this volume the history of the Virginia Section, from the events leading to its charter through 1990, its seventy-fifth year, is complete.

This volume opens by presenting the historical overview compiled through 1975 by Dr. William E. Trout, Jr.; it was placed in the ACS Time Capsule as part of the 1976 ACS Centennial observance. Dr. Trout prepared a summary history of the Section’s founding and subsequent reshaping, as well as a brief history of its predecessor, The Virginia Chemist’s Club; he added a chronology of important dates in the history of the Section up to 1975. These three excellent brief accounts by Dr. Trout of important segments of the Section’s history constitute the Introduction in this volume.
INTRODUCTION
Historical Accounts of the Virginia Section
by William E. Trout, Jr. (1975)

Important Dates in the History of the Virginia Section

January 22, 1909.   Petition for the formation of a Virginia Section of the American
                    Chemical Society. Denied some eleven months later.
February 12, 1915. Second petition for the formation of a Virginia Section.
April 9, 1915.     Charter granted the Virginia Section, the 49th.
December 10, 1915. First official meeting of the Virginia Section of the American
                    Chemical Society, with 31 charter members.
April 11-16, 1927. Virginia Section was host to the National Meeting of the American
                    Chemical Society, in Richmond.
December 28-30, 1937. Virginia Section was host to the Seventh National Organic
                       Chemistry Symposium, in Richmond.
1948.               First Distinguished Service Award.
1949. November, 1959. The Virginia Section was host to the Southeastern Regional
              Meeting of the American Chemical Society, in Richmond.
1963.               Membership had grown to 786, entitling us to a third councilor.
1965      50th Anniversary Celebration in Williamsburg. ACS President Dr. Charles Price was.
          speaker Half price subsidy for students begun.
          Dr. Russell Rowlett presented a paper on the First Fifty Years of
          the Section before The History of Chemistry Division in September
          1965.
          Outstanding Section Award presented to Virginia Section.
          Preston Leake, Chairman.
1989.               Outstanding Section Award presented to Virginia Section.
          Eddie Thomas, Chairman.
In the fall of 1906, Dr. Eugene C. Bingham, Professor of Chemistry at Richmond College (now the University of Richmond), fresh from graduation from the Johns Hopkins University and from study in Germany, suggested to Dr. E. W. Magruder, Chief Chemist of the Virginia Department of Agriculture, the formation of some kind of chemical organization.

On January 18, 1907, almost three hundred years after the landing at Jamestown, ten chemists met in the office of Dr. Magruder, "It was decided that it would not be feasible at the time to form a section of the American Chemical Society, as there were too many chemists who could not pay the dues of the American Chemical Society." The dues were then $8.00.

An invitation was sent to all chemists in the state to meet in the Corporation Room of the State Capitol at 8:00 P.M., on Friday, January 29, 1907. The organizers were surprised at the turnout. Between forty and fifty chemists appeared, most of them from Richmond and Ashland.

A committee was named to draw up the constitution and the by-laws of the new Virginia Chemists Club. Elected officers were: Dr. E. W. Magruder, President; Dr. H. Froehling, Vice-President; Dr. E. C. Bingham, Secretary-Treasurer. Dues were set $1.50. Dr. W. D. Harding presented the Club with a year's subscription to *The Journal of the American Chemical Society*.

Later observers would agree with Section Historian, Garnett Ryland, that "...the sociability developed that evening has ever since proved one of the most valuable assets of the Club."

Thirty-one Chemists became charter members of the Club.

Apparently the custom of holding monthly meetings during the fall, winter, and spring months was followed closely from the beginning.

Proceedings were published in 1908 and 1910, but were discontinued until *The Bulletin of the Virginia Section* was inaugurated in 1923.

All minutes of the Club were lost through 1917. The minutes are complete from 1919.
The Virginia Section of the American Chemical Society, 1915

On January 22, 1909, petition was made to the American Chemical Society for the formation of a Virginia Section that would include in its territory most of the state. The request was turned down on December 17, 1909, by the Society, which gave as its reason the large territory involved.

After six years, on February 12, 1915, a second petition was signed by nine members of the Club and presented to the Council of the American Chemical Society. This application was approved, and on April 9, 1915, a charter was issued to the Virginia Section, signed by President Charles H. Herty and Secretary Charles L. Parsons. Thirty-one members were listed. The territory included all of Virginia except "Alexandria County."

There has been some question about the date of the first official meeting of the Virginia Section. At the time of its formation, accounts of section meetings were sent to the Secretary of the Society for inclusion in the "Proceedings."

The first account of a meeting of the Virginia Section was published on page 20 of the January, 1916, "Proceedings:"

The December meeting was held on December 10, 1915. Through the courtesy of the faculty of Richmond College, the Section heard Prof. W. S. Franklin, of Columbia University, lecture on "Some Mechanical Analogies in Electricity and Magnetism."

W. A. Barrows, Secty.

One would expect the Section to have held a meeting soon after the charter was granted. No evidence of an earlier meeting has so far been revealed.

The area of the Section has been twice reduced. In 1931, twelve counties in Southwest Virginia were included in the Virginia-Blue Ridge Section, and in 1944, thirteen counties were released to the Hampton Roads Section.

In 1915, The Virginia Section was the 49th Section of the Society. Its thirty-one charter members constituted 0.4 per cent of the total of 7,417 members of the parent Society. On November 30, 1915, there were 59 paid members of the Virginia Section.
Ed. Note: [1938]: We have felt that it would be of particular interest to the Section for The Bulletin to publish in serial form as much of the history of the Virginia Section as is feasible. Of special interest is the organization of the parent group; "The Virginia Chemists Club," which was to become the Virginia Section of the American Chemical Society. Therefore this first part is given in somewhat greater detail than will be the subsequent portions.

Preface

The personnel of the committee appointed by Chairman Yoe [1936] to be responsible for the compilation of a brief history of the Virginia Section is as follows: Drs. E. W. Magruder, Garnett Ryland, and J. C. Forbes, and Messrs. F. P. Pitts, Edwin Cox, W. F. Rudd, and Major W. Catesby Jones.

Chairman Yoe felt that he knew his conferees well enough to suggest a division of the labor among them as they seemed to him individually best fitted to do certain parts of the task.

And so the historically-minded Ryland was asked to write the introduction, Magruder to cover the first ten years, during which period he was easily among the most active and useful in the group; Rudd the 1917 to 1927 period; Major Jones the recent decade; Mr. Forbes and Professor Pitts to arrange certain statistical data without which the work would not be complete, and the forward-looking Cox for such prophecy as he might care to make.

No attempt has been made to edit the individual contributions for the sake of uniformity.

As chairman of the committee, we wish to acknowledge gratefully the cordial cooperation given by all the committee members.--W. F. R. [W. F. Rudd]

The Virginia Chemists' Club
[Prepared by E. W. Magruder]

In the fall of 1906, Dr. Eugene C. Bingham, fresh from graduation at Johns Hopkins University and from study in Germany, came to Richmond as professor of Chemistry at Richmond College. After he started to work he came to see Egbert W. Magruder, chief chemist of the Department of Agriculture, to discuss the possibility of forming some kind of chemical organization. These two talked the matter over and thought it would be a good plan, and decided to discuss it with some other chemists and arrangements were made for other discussions. On Dr. Bingham's next visit the laboratory force of the Department of Agriculture, consisting of Dr. C. M. Bradbury, J. B. Robb, H. L. Davidson and J. H. Perkins, was called in and the subject of a chemical organization was thoroughly discussed and approved. Several other meetings were held in which the laboratory force took part and in which F. B. Carpenter and A. H. Allen, of the Virginia-Carolina Chemical Corporation, and Andrew Robertson, of the firm of Froehling & Robertson, and Hall Canter, professor of chemistry at Randolph-Macon College, also took part. On January 18, 1907, ten of the aforementioned chemists met in the office of Dr. Magruder and, after a thorough discussion, decided
that a chemical organization should be formed to include all the chemists of the State of Virginia. It was decided that it would not be feasible at this time to form a Section of the American Chemical Society, as there were too many chemists who were not able to pay the dues of the American Chemical Society and, therefore, a great many of the chemists of the State would not become members which would defeat the object of the organization, i.e., to have every chemist in the State a member, if possible. It was then decided to try and form a separate and distinct organization and to name it the Virginia Chemists Club, and to send out an invitation to all the chemists of the State to meet in the Corporation Court room at the State Capitol on Friday, January 25, at 8 P.M., for the purpose of effecting an organization. E. C. Bingham, E. W. Magruder and Hall Canter were appointed as a committee to draw up the constitution and by-laws, make nominations for offices and all necessary arrangements for the meeting. The committee met promptly and drew up the constitution and by-laws and decided on nominees for the offices. Notices were sent to all chemists of the State inviting them to attend the meeting and become members. Notices were put in the papers inviting all chemists to attend.

On January 25, 1907, at 8 P. M., in the Corporation Court room at the Capitol, the meeting was held and a large number of chemists attended—between forty and fifty. The number was quite a surprise to all present, as we had no idea there were so many chemists from Richmond (only chemists from Richmond and Ashland attended this meeting). The meeting was called to order by Dr. E. W. Magruder. Dr. C. M. Bradbury was elected temporary chairman and Dr. E. C. Bingham, temporary secretary. The committee mentioned above, composed of Bingham, Magruder and Canter, presented the constitution and by-laws, which, after a full discussion, were adopted as a whole. The Nominating Committee, which had previously been appointed, nominated Dr. E. W. Magruder for president, Dr. Henry Froehling as vice-president, and Dr. Eugene C. Bingham as secretary and treasurer. These officers were unanimously elected. After some discussion the annual dues were fixed at $1.50 and, as a starter for a library, Dr. W. D. Harding presented the Club with a year’s subscription to The Journal of the American Chemical Society.

There was then a discussion of the aims and objects of the organization. After the adjournment the men remained and became acquainted with each other and had a real social hour. Although many of the chemists had been in Richmond many years, the majority of them did not know each other and the sociability developed that evening has ever since proved one of the most valuable assets of the Club. The papers which have been presented have been of great value, but the acquaintanceships made and friendships formed and the social features of the meetings of the organizations have from the beginning been the most delightful part of the programs and of more value to the members than the excellent papers they have heard.

The Virginia Chemists Club thus at its first meeting developed one of the most valuable assets of the organization which has gone forward from that time to the present, furnishing information and incentive to its members for greater and better work, and forming delightful and lasting friendships. Thus the Virginia Chemists Club was organized. There were thirty-one present who joined the Club and these are known as charter members. Twenty-six others who were not present at the first meeting joined during the year, so we had fifty-seven members who joined during the year, which was not bad considering the times. It is well here to take an inventory of some of the charter members and they will be taken up alphabetically:

A. Holmes Allen was an assistant chemist of the Virginia-Carolina Chemical Corporation and
has been with that company ever since, and has been first assistant chemist for a number of years, doing most valuable work.

R. B. Arnold was chemist for the Kentucky Tobacco By-Products Corporation and has done some excellent work on nicotine and nicotine products. He was with some other firms for a while, but went back to the Tobacco By-Products and Chemical Corporation, which company was formerly the Kentucky Tobacco By-Products Corporation.

Eugene C. Bingham did excellent work as professor of chemistry at Richmond College. He went to Lafayette College as professor of chemistry in 1916 and is there now. [1939] He has done a great deal of work on "fluidity" and "plasticity." He has written many articles on these subjects and has written some very important books.

C. M. Bradbury was first assistant in the laboratory of the Department of Agriculture. He was a most scholarly man and a lovable Christian gentleman with a profound knowledge of the Bible. He remained with the department until his death some years ago.

Hall Canter was professor of chemistry at Randolph-Macon College until his death, Sept. 2, 1939. He was a splendid teacher of chemistry, a fine man with a delightful personality, and also a first class organist.

F. B. Carpenter was chief chemist of the Virginia-Carolina Chemical Corporation and has held that position ever since. He is a splendid analyst, a fine executive, and has done important work as a member of the American Chemical Society for many years. He was the chairman of the Fertilizer Section of the Society for a number of years.

H. L. Davidson was an assistant chemist in the laboratory of the Department of Agriculture, where he did excellent work. While there he conducted a class in chemistry at night at the Mechanics Institute and was afterwards made president of the Institute, which position he now [1939] holds. He has done excellent work there and has greatly strengthened the institution.

A. M. Forrester, a fine Scotsman, was superintendent of the fertilizer plant of the Richmond Guano Company. He afterwards went to Louisville as superintendent of the Tobacco By-Products and Chemical Corporation, which position he now holds [1939].

Henry Froehling was a German and came to this country as a young man and, after doing some work in several cities, settled in Richmond and started a laboratory which proved very successful. He afterwards took into partnership with him Andrew Robertson. The laboratory was enlarged and did all sorts of chemical work. He remained at the head of this laboratory until his death.

P. C. Hoffman was the general manager of the manufacturing department of the Virginia-Carolina Chemical Corporation, which position he filled most ably until his death. E. C. Levy was Chief Health Officer of Richmond City. He organized this department and built it up from almost nothing to a most important branch of the city government, and he remained in this position until his death.

E. W. Magruder was chief chemist of the Department of Agriculture, which position he held until 1915. He then went with the F. S. Royster Guano Company as chief chemist, which position he now holds. He has devoted himself to fertilizer and agricultural chemistry and has been chairman of the Fertilizer Section of the American Chemical Society for a number of years. He still holds this position. [1939]

Otto Meyer was a German and came to this country as a young man, and conducted a commercial laboratory in Richmond. He was a fine chemist and a man of much ability, and was a
most lovable character. He never became fluent in the use of the English language and labored very much in talking. It amused the members very much when he spoke, but his accent did not prevent his giving good talks, and he never took offense at the amusement he furnished the members. His speech was never fluent in English like his friend, Dr. Froehling, who spoke English very well indeed.

J. H. Parkins was an assistant chemist in the laboratory at the Department of Agriculture, where he did excellent work. When Dr. Magruder went to Norfolk with the F. S. Royster Guano Company, he soon secured Mr. Parkins as his assistant. Mr. Parkins remained with the F. S. Royster Guano Company for six years, when he went with the Norfolk Testing Laboratories as vice-president. He is now [1939] the president of that organization and is doing excellent commercial analytical work.

J. B. Robb was assistant chemist in the laboratory of the Department of Agriculture, which position he held for some years, and then established a laboratory of his own and did excellent commercial work. When the Virginia Alcoholic Beverage Control Board was organized, Mr. Robb went with this department as their chemist. As the head of the laboratory he has done most excellent work in seeing that Virginia has pure whiskeys, brandies and wines, and has succeeded in establishing standards to which the sellers of alcoholic liquors have to conform.

Andrew Robertson came to this country from Scotland and was with the Kentucky Tobacco By-Products Corporation for some years. He then joined Dr. Froehling and the name of the laboratory was changed to Froehling & Robertson. He remained with this firm until his death, which occurred not a great many years after the formation of this Club. He was a man of splendid ability and was as fine a Scottish chemist as could be found. He helped to build up the firm very materially.

W. F. Rudd was professor of chemistry at the University College of Medicine, which position he held until that institution merged with the Medical College of Virginia, when he became professor of chemistry of the combined institutions, and he still holds this position [1939]. He has been dean of the School of Pharmacy for a number of years. His work at the college has been outstanding and he is one of the mainstays of the college.

S. H. Sheib was first assistant chemist with the Virginia-Carolina Chemical Corporation. He afterwards went to Nashville, where he did fertilizer work and also some teaching, and some years after the death of Andrew Robertson he became a member of the firm of Froehling & Robertson. After the death of Dr. Froehling he became head of the firm, which position he held until his death.

From this brief account you will see what excellent material the Virginia Chemists Club started out with. It is, therefore, not surprising that it has gone on growing and improving ever since.

The second meeting of the Club was held on February 15, 1907, in the Corporation Court Room. The President, E. W. Magruder, in his inaugural address outlined the objects of the Club and told how he considered the meetings should be conducted and the nature of the papers to be presented. He emphasized, especially, the social features of the Club and how the members would be benefited by simply knowing and mingling with each other. At this meeting invitations were received from the Mechanics Institute and from Richmond College to hold the meetings at these institutions, and a committee was appointed to look into the matter and make the selection. The committee investigated the matter and decided that the Mechanics Institute would be the most convenient, and this Institute became the meeting-place of the Club.

At the third meeting on March 15th, which was held at the Mechanics Institute, Hall Canter gave in his inimitable manner a paper on "Friedel-Crafts Reaction." Dr. Bradbury presented an able
paper on "Denatured Alcohol."

On April 12th the next meeting of the Club heard a paper by Dr. E. C. Levy on "The Relation of Water Supply to Disease," in which paper Dr. Levy brought out the importance of having pure water for drinking purposes, and told how greatly pure water would reduce disease. After this meeting the club recessed until November 19th. At this meeting Mr. Andrew Robertson discussed "Some Recent Work on the Corrosion of Iron."

On December 12th Mr. F. B. Carpenter presented a paper on "The Importance of Nitrogen in Agriculture and Some New Sources of Supply." The Nominating committee, composed of Dr. Miller and Messrs. Robb and Ezekiel, was appointed to bring in nominations at the January meeting.

On January 11th, 1908, the Club met at the Mechanics Institute and this marked the end of the first year of the Club. Mr. H. L. Davidson presented a paper on "Neutral Ammonium Citrate Solution in the Determination of Insoluble Phosphoric Acid." Dr. Otto Meyer gave a paper on "Some Etching Experiments on Calcite & Quartz." As this was the first paper Dr. Meyer had given, the audience was more taken up with the manner in which he presented the paper than it was in the paper itself, and the members were constantly wondering how Dr. Meyer would get through with the next sentence on account of his very broken English accent. E. W. Magruder presented a paper on "A Rapid Method for the Estimation of Sulphur in Crude Petroleum and Illuminating Oils." The Nomination Committee brought in its report for officers for the ensuing year, who were all unanimously elected and were as follows:

President                          E. C. Bingham
Vice-President                  Hall Canter
Secretary-Treasurer           C. M. Bradbury

Thus the first year of the club ended. The meetings had been well attended and the papers had been enjoyed, and the fellowship had been most helpful. All decided that the Club was a most worth-while institution.

The proceedings of the next two years will be given in the Appendix.

The papers first presented were all from members, but at the November 1908 meeting it was decided and voted "that the Program Committee be authorized to invite each year as many as two chemists residing in Virginia but not in Richmond to deliver addresses before the Club, the Club to pay their expenses." At this meeting Dr. Bingham presented a paper on "A New Method of Calculating Association By Means of Fluidity Data." A year or two later Dr. Bingham gave another address. At this same meeting a committee, consisting of E. W. Magruder, A. M. Forrester and G. B. Carpenter, was appointed to investigate the advisability of converting the Virginia Chemists Club into the Virginia Section of the American Chemical Society. This Committee canvased the Chemists of the State very thoroughly and found that practically everyone was in favor of the formation of a Virginia Section of the American Chemical Society. This was reported to the Club on January 22, 1909, and after a discussion the following resolution was adopted:

RESOLVED: That the Virginia Chemists Club be merged into the Virginia Section of the American Chemical Society, provided that practically the State of Virginia be given as the territory for such Section, and that application be made to the American Chemical Society for admission.
Application was, therefore, made to the Society and, after considerable delay, a reply was received from Dr. C. L. Parsons, Secretary of the American Chemical Society, which was communicated to the Club on December 17, 1909. Dr. Parsons stated that the Council of the Society declined to give the territory for which the application had been made by the Virginia Chemists Club. The matter was then dropped for the time being. The attitude of the Council at that time was very different from what it was a few years later and from what it is at the present time, for it has encouraged the formation of sections and Virginia now has two sections of the American Chemical Society.

On January 22, 1909, the following officers were elected:

President                          F. B. Carpenter
Vice-President                  C. M. Bradbury
Secretary-Treasurer           H. L. Davidson

W. F. Rudd stated that he had been instructed to offer to the Club at this meeting the use of a lecture room of the University College of Medicine at any time the Club should find it desirable to make use of such a lecture room. A vote of thanks was extended to the authorities of the University College of Medicine for their courteous offer.

On March 26th Mr. J. H. Gibboney, Chief Chemist of the Norfolk and Western Railway Company, addressed the Club on "The Railway Chemist." This address was a most outstanding one and gave the members a much broader idea of what a railroad chemist had to do.

On April 9th Dr. W. E. Barlow, Professor of Metallurgy and Metallography at the Virginia Polytechnic Institute, presented an able paper on "Some Recent Developments in Metallographic Research."

On January 17, 1910, the following officers were elected:

President                          Dr. Henry Froehling
Vice-President                  Professor W. F. Rudd
Secretary-Treasurer           A. H. Allen

Dr. Froehling, who rarely ever went out at night, stated that he would not be able to attend to the duties of President of the Club and, although he appreciated the honor of being elected as President, he would have to decline. Professor Rudd automatically became President, but at the next meeting of the Club the members decided they did not want Professor Rudd to be President [only] because someone else could not perform those duties, so they elected him in his own right, and they made no mistake in doing so.

At the end of the first year the Club published Volume I of "The Proceedings of the Virginia Chemists Club," in which were given the names of all members, the constitution and by-laws, and the papers which had been presented--either in full or in abstract. At the end of the second year, as the finances were a little low, no "Proceedings" were published but at the end of the third year it was decided to publish Volume II containing the papers of the second and third years of the Club. This was done in the spring of 1910. Volume II also contained a catalog of books on chemistry in the various libraries of the State of Virginia. This catalog was compiled by Dr. E. C. Bingham and was a
most valuable acquisition for all chemists. It was the only catalog of the kind which had been published in the State of Virginia up to that year, and it should prove a valuable source of information as to what books on chemistry the various libraries of the State contained. Dr. Bingham deserves a great deal of credit for collecting this information and for the thorough manner in which he did it.

No more "Proceedings" were printed until "The Bulletin of the Virginia Section of the American Chemical Society" was started in 1923. All of the minutes of the Club [from 1910] through 1917 were lost, so there is no record of what was done from January 21, 1910, until 1917. It is known that W. F. Rudd was President in 1910, A. M. Forrester in 1911, Andrew Robertson in 1912, E. W. Magruder in 1913, his second term, Dr. C. M. Bradbury in 1914, and J. Bernard Robb in 1915. It has been impossible to determine who the Vice-Presidents and Secretary-Treasurers were during that time.

The Virginia Section, 1917-1927
[Prepared by W. F. Rudd]

[The charter of the Virginia Section of the American Chemical Society was issued in April, 1915.] For one who has been associated with the Section since its beginning, and who has been privileged to know intimately and work closely with all of those who had a part in making it successful, the task of writing a ten-year period of its history is undertaken with enthusiasm, as it furnishes the best possible opportunity to live over again some of the contacts and experiences that have meant so much in his own life.

This decade, 1917-27, began just as America was making the final decision to cast her lot with that of the Allies against the Central Powers in a struggle that all the world now recognizes as a cataclysm that changed the maps and destroyed much that civilization had gained through the centuries.

During the first decade of the Section's history, or certainly during the first half of it, the membership in the old Virginia Chemists Club--later to become the Virginia Section--was limited almost exclusively to those actually engaged in some form of chemical activity. In 1917 there were relatively few chemists in Richmond, and even in the State as a whole, except those in charge of the departments of chemistry in the colleges and universities. Although Richmond is one of the larger tobacco, paper, and fertilizer centers of the country, there was practically no chemical work in the first two, and even in the latter it was limited largely to control procedures.

With the outbreak of the war in 1914, and the sudden realization of the fact that both war and peace time activities were being rapidly rooted in the work of the chemist, the small Virginia group that had carried on modestly soon began to see that for chemistry in America, and certainly chemistry in Virginia, a new era was beginning. The first Virginia "war baby" was going up at the junction of the James and the Appomattox. With an almost unbelievable speed Hopewell became a city, its stacks belching out gusts of sickly, yellowish, irritating fumes very strongly suggestive of the death and destruction which the products of her factories would soon be supplying to the warring nations of the world.

Chemistry on such a scale was unknown in our midst. Regardless of the death dealing
objectives of much of it, our imaginations were fired, and soon there developed in our group a
professional consciousness that less spectacular operations would not have aroused so quickly.

Laymen, as never before, became interested in the subject of chemistry; the press was alert
for every scrap of news, or certainly the sensational part of it that chemists could supply them. By
1916, wild stories about the use of poisonous gases against the Allies by the Germans led the public
to believe that the destruction of a whole army, or a city, by the new weapon was not unlikely.

While it has not been practicable, nor is it necessary to give in chronological order the large
chemical developments in the State during this period, it is true that during the early years of this
second decade money and talent were poured into plants and operations which were basically
chemical as at no other period in the history of Virginia. Among these operations may be
mentioned: Chesapeake Corporation at West Point, one of the first plants to produce pulp from
pine; and the Beaver Chemical Company at Damascus, sole domestic producer of alizarin
intermediates.

Developments in the Norfolk area included operations of the Cocoa Products Corporation for
production of theobromine, and cocoa butter from cocoa wastes; operation of the Portsmouth Cotton
Oil Company, and by-product production of hydrogen and oxygen; production of sulfur dioxide by the
Norfolk Smelting Company; and operation of a cement plant.

Chemical control was introduced into many industries. This was probably in part due to the
effectiveness of the war time operations. Industries that were formerly operated largely by empirical
methods installed laboratories. To mention a few of these: pulp and paper mills, food industries
and dairies, municipal water works, the tobacco industry, and fertilizer plants.

Industries that formerly used laboratories only for control expanded their facilities for
research. The `synthetic' value of the chemist began to be appreciated where formerly his analytical
function only was considered. Typical of this was research by pulp and paper, fertilizer, tobacco by-
products, and the Valentine Meat Juice Company.

1917-1919

By the middle of 1917, members of the Section were beginning to leave for the training
camps. Even as early as June, 1916, W. Catesby Jones had been inducted into federal service for
duty on the Mexican Border. He served with the First Squadron, Virginia Cavalry, until March, 1917.
Seven months later we learned that he had been transferred as a private to the Gas Defense
Service at Washington, and in November was commissioned First Lieutenant. His promotion was
rapid, and in May of 1918, he received his Majority and was stationed at the American University
Experiment Station until June, 1919.

Early in the fall of 1917, Dean Albert Bolenbaugh of the school of pharmacy at the Medical
College of Virginia volunteered and was sent to the American University for training in gas warfare.
He was soon commissioned and for almost a year was at Camp Lewis, in Washington State, where
he was in full charge of this work. In the summer of 1918 he was returned to headquarters in
Washington for a part in the reorganization of the Chemical Warfare Service. He remained in
service until the Armistice was signed and was mustered out as a captain.

Others going from the Section at this time were Professor Aubrey Straus and P. F.
Fackenthal. While neither of these was a chemist, the liberal attitude of the Section toward
members in closely related fields is well illustrated by the fact that both of them had been active in
the Section for some years. Prof. Straus became an officer in the Sanitary Corp., and was in France
for more than a year. Mr. Fackenthal, a botanist, also saw foreign service and did not return to the
College until after the Armistice. Dr. E. Guy Hopkins, pathologist at the same institution, was in
charge of the pathological laboratory at the Medical College of Virginia Base Hospital No. 45, and
served with this outfit in France, returning early in 1919 as a Major. Dr. E. P. Wightman, who was
then Chairman of the Section, left us late in 1917.

Because of the thinning of our ranks by the departure of so many for military service, those
left to carry on during the two years from early 1917 to early 1919 found themselves overwhelmed
by the amount of work falling on them. Section meetings were, however, held regularly, and some
of the most stirring events of our history occurred during the war period.

That organized chemists and, through them, educated laymen might be brought to realize
the far-reaching significance of some of the wasteful manufacturing processes accepted generally
without serious question, even up to the beginning of the war, leading chemists of the country
became missionaries for conservation, and in their visits to local sections aroused a degree of
enthusiasm quite different from what we had known before. Not one of us who heard Dr. Charles H.
Herty in his scathing denunciation of the continued use of beehive coke ovens while the world was
in such desperate need of their by-products which were allowed to go to waste, will ever see one of
these archaic affairs without recalling vividly the night he spoke to us in an effort to arouse the
Section to help in some way to remedy this wasteful situation in our own state.

When the flu epidemic spread over the country in late 1918, and Richmond began to feel the
full force of the scourge, a member of the Section—Dr. E. C. L. Miller—was commissioned by the
administration of the city to convert the John Marshall High School into an emergency hospital,
where at one time during November several hundred patients were being cared for under Dr. Miller’s
supervision, assisted as he was by a large group of voluntary workers.

During this same period, the need for toluene as the raw material for TNT became so acute
that the War Department was petitioning gas departments of the cities of the country to allow them
to strip their gas supplies of this precious material. A local Section member was selected to carry on
these negotiations with the Administrative Board of Richmond and their permission was readily
granted, though the actual operation was not carried out here.

Minutes of the Section meetings for the years 1917 to 1919 are not available for this record,
and some things that should go into the history of this period must be omitted, or furnished in a
sketchy sort of fashion from the memory of those Section members whom we have been able to
contact.

The minutes are, however, quite complete from February, 1919, and even at that time—but
three months after the signing of the Armistice—we find the chief item of discussion at the Section
meeting was the proposal to have the War Memorial to Virginia soldiers take the form of a library.
This committee was composed of three members: Dr. E. C. L. Miller, bacteriologist, Dr. R. L.
Simpson, a dentist, and Dean Bolenbaugh. The personnel of the group is cited to indicate the wide
diversity of interests of those active in the affairs of the Section, with a further comment that not until
associate members were taken in relatively large numbers and given active duties in the Section,
did it begin to hit the stride that later has marked it certainly among the most progressive and useful
scientific organizations in the State. This committee was instructed to give special attention to the
scientific departments of such a War Memorial when and if built, and to attempt to organize all of the
scientific societies of the State that they might co-operate to this end.

An interesting motion, unanimously passed by the Section early in 1919, remitted the dues of all members who had been in military service.

Repercussions of those subjects uppermost in the minds of us all at that time will be found frequently in reports of the meetings for a long time after the signing of the Armistice. At the March meeting, for example, H. W. Ellerson, president of the Albemarle Paper Company, which had had a part in developing filters for gas masks, talked to the Section about the exceptional work of his company along this line, and demonstrated a large number of samples of filter paper which he stated would effectively filter out very fine smoke.

At the April meeting, Chairman Ryland announced that for the first time the membership of the Section had reached one hundred, and that it was therefore entitled to a second councilor. It was during this period that the Section became interested in the adoption of the orphan of some French scientist who had been a war victim, and a committee with R. B. Arnold as chairman was appointed to investigate the feasibility of this plan. Later, the support of Louis Regnard to the amount of $100 per year was undertaken by the Section and continued for several years, the money being raised entirely by voluntary contributions from the members. The committee had frequent letters from the mother of this boy, and these were read at the meetings and served to keep alive interest in the project.

Dr. Graham Edgar, who had come to the University of Virginia about this time, was soon to be extremely active in the work of the Section. In October, 1919, he made his maiden address at the regular meeting, his subject being "Some Phases of the Fixation of Nitrogen." Dr. Edgar's influence and usefulness in the Section grew rapidly. A clear, forceful speaker, thoroughly trained in modern theories of the structure of matter, he was to be the chief speaker on the program several times within the next few years, for some of the most interesting and instructive addresses the Section has had in its history. In the summer of this same year, L. C. Bird, who had graduated in pharmacy at the Medical College of Virginia in 1917, and who had served in France with the M. C. V. Base Hospital No. 45, commonly known as "The McGuire Unit," accepted a position with the State and City Health Laboratory, and became an associate member of the Section in October. His name is to appear often in the minutes. At the December meeting, Gordon Blair, a well known retail pharmacist of Richmond, was elected to associate membership and has been a regular attendant at the monthly meetings since that time.

Prior to and during the war period, most of the monthly meetings had been held at the Medical College of Virginia. With the organization of the University Club, which offered not only comfortable meeting rooms but also ample facilities for serving the dinners, the meetings were held there for several years after the war.

1920

At the first meeting in 1920, Dr. E. V. McCollum of Johns-Hopkins, one of the best-known authorities in the field of nutrition, was the guest speaker. Despite the fact that the night was bitterly cold and the streets completely covered with ice, a large crowd heard him in the auditorium of College Hall, a Medical College dormitory, the meeting having been transferred there in order to accommodate the public that had been invited.
Not until during and after the war period was there organized effort to bring into the meetings laymen who might be interested in the program. To make this new order effective, speakers were to be chosen whose names occurred frequently in the lay press, and who were commonly regarded as authorities in fields in which laymen were becoming more and more interested. Prior to this time, practically all of the meetings had been held in Richmond. At the February meeting in 1920, an invitation from the department of chemistry at the University of Virginia was read, asking the Section to hold one of its meetings of the year at Charlottesville. The reason given for not accepting this invitation was that the roads were too bad for the trip to be made in automobiles, which seems strange to us today [1939] when almost by airline-hard-surfaced-highway the trip is made in an hour and a half by the "olders," and even less by some of our younger and faster moving members.

Among the associate members elected at that meeting was Dr. J. Shelton Horsley, who has maintained an active interest in the work of the Section up to the present time [1939].

Johns-Hopkins and Columbia have probably had a larger share in the training of the men and women connected with the Section than any other schools in the country. A roster of Section members trained in these two institutions will include many who have had a large share in the affairs of the Section. Among the older members are: Drs. Magruder, Bingham, Garnett Ryland, Miss Peachy Ryland, Dr. E. P. Wightman, and Dr. R. M. Bird. And in later years: Dr. Negus, and Miss Frances Schofield, all of whom were trained at Johns-Hopkins. From Johns-Hopkins: R. F. McCrackan, the Updikes, Braxton Valentine, Bolenbaugh, William Clift, and Rudd. This will, partly at least, account for the fact that those two institutions have also furnished many of the Section speakers--Emmett Reid, Patrick, Neil Gordon, from Hopkins; Drs. Alexander Smith, Sherman, Thomas, Bogert, Fisher, and Urey from the latter.

In March, 1920, Dr. Thomas was the guest speaker, his subject being "Emulsions." He called special attention to the fact that knowledge of such a common place product was sadly deficient.

Dr. Noyes, at that time president of the American Chemical Society, was our speaker at the April meeting. He urged the necessity for more thoroughly trained chemists in order that America should be in the forefront among the nations in chemical investigation.

Comment on Dr. Noyes' visit should not pass without calling attention to his simple manner and delightful personality. He was in Richmond over Sunday. Asked how he wished to spend this time, without hesitation he requested that he be allowed to attend some Sunday school. The writer had the privilege of taking him to a large Bible class for men. He made a fine impression on this group by a brief but extremely strong talk.

Although it has been customary to have as guest speakers distinguished men from industry, and from the universities, etc., each year, some of our own members have been given this position of honor at the monthly meetings. In May, Prof. R. L. Howard, who had recently come to the University of Richmond, and Dr. F. B. Carpenter, chief chemist of the Virginia-Carolina Chemical Company, and who was a charter member of the old Virginia Chemists Club, were on the program. Dr. Carpenter's subject was "Injurious Effects of the Borax Field Crops."

It was in September of this year that the Section suffered a severe loss in the removal from Virginia of Mr. A. M. Forrester, who had been in charge of the Richmond Branch of the Tobacco By-Products and Chemical Corporation. He had transferred to the home office of this company at Louisville. Mr. Forrester had been a constructive force in our work, and was as fine type of cultured scientist as may be found in any group. R. F. McCrackan, of the Medical College of Virginia staff,
was elected to succeed Mr. Forrester as secretary, which position he had held for some time.

The long suppressed desire of some members of the Section to be hosts to the American Chemical Society took definite form at the October meeting. After considerable discussion of the matter, and upon the motion of Dr. Graham Edgar, the chairman was instructed to appoint a committee to consider ways and means and the advisability of issuing such an invitation. The personnel of this committee was: Drs. F. B. Carpenter, R. M. Bird, Garnett Ryland, E. W. Magruder, and Rudd. It was at this meeting also that Dr. Edgar, by special request of the Program Committee, gave the first of two lectures on the subject, "Architecture of the Atom." Dr. E. C. L. Miller had prepared some mechanical models for Dr. Edgar in connection with his talk, and these proved extremely helpful to the audience.

"The Physics of Flying" was the subject of a delightful talk by Dr. R. E. Loving at the December meeting, and participation in the discussion by Mr. Hagner, a practical aviator, added much interest.

1921

At the first meeting of the next year, 1921, Dr. Carpenter reported that the committee to consider the invitation to the American Chemical Society for a Richmond meeting recommended that they be invited for either 1922 or 1923. The invitation, however, was to be dependent upon the willingness of the business men of Richmond to underwrite an amount sufficient to finance their entertainment.

Dr. E. C. L. Miller presented the paper of the evening, his subject being "Hydrogen-ion Concentration and Its Determination." Mr. L. C. Bird and Dr. Loving assisted with demonstrations. Motion pictures of the U. S. Nitrate plant at Muscle Shoals were also shown.

Attendance at the monthly meetings was beginning to grow, as the minutes show that seventy-odd were present at this time. At the February meeting, Dr. H. E. Howe, chairman of the Division of Research Extension of the National Research Council, was the speaker. He gave an interesting account of the work of the division. At the business meeting, Dr. Carpenter reported that the business men of the community who had been approached regarding the wisdom of inviting the American Chemical Society had shown considerable enthusiasm, and Mr. Dabney, of the City Chamber of Commerce, was present and made some encouraging remarks on this subject.

The name of Dr. John H. Yoe, who had recently come to the University of Virginia, occurred for the first time in the minutes of the March meeting. Dr. Hugh S. Taylor, of Princeton, was the speaker on this occasion, his subject being "Pure Research in the Development of Industrial Catalysts."

Although spring was at hand, and an optimistic outlook on things in general was to be expected, the conservative attitude of the Section was demonstrated when Dr. Garnett Ryland stated that, by request, he wished to move a reconsideration of the motion passed at a previous meeting instructing the Councilors to invite the American Chemical Society to meet with us. After much discussion, a motion to continue the original committee was passed, with further instructions that extending the invitation be deferred indefinitely. A month to think this over since the original motion had been made to invite them had served to greatly increase the spirit of conservatism which then prevailed. At this meeting, Dr. Graham Edgar delivered his second talk on the "Architecture of the Atom," his subject being "Chemical Combination and the Nature of Valence."
The name of W. G. Crockett, newly elected professor of pharmacy at the Medical College of Virginia, appears in the minutes for the first time here. He succeeded Dean Bolenbaugh, who, on account of ill health, had been obliged to give up his work at the college. Dean Bolenbaugh had been one of the most useful and able members of the Section, and his going away was a matter of extreme regret.

"The Art of Paper Making" was the subject of an address by Mr. B. K. Steadman, of the Standard Paper Company, at the May meeting. He had recently taken charge of the newly organized chemical laboratory of this concern in Richmond, which was reported to be the largest blotting paper plant in the world. At this time also, Major W. Catesby Jones, who was to have such a prominent part in the Section's affairs in the years to come, was elected chairman.

By early fall of 1921, the chemists in the vicinity of Norfolk were thinking of organizing a local club, and at an Executive Committee meeting of the Virginia Section on October 4th, action was taken to communicate with Dr. E. W. Magruder and Mr. A. W. Putland, looking toward a sectional meeting in Norfolk during the following spring.

The October meeting of this year carried some of us back to the early days of the Virginia Chemists Club, when our meetings were held at the Virginia Mechanics Institute building, and we heard with respect and awe about those learned researches of the beloved E. C. Bingham. None of us understood what he was talking about, but even the dullest of us felt that Dr. Bingham would ultimately be known nationally for his pioneer work on plastics. Brought back to us from Lafayette College, where he went upon leaving the University of Richmond, we found that as the speaker of this evening, he began just where he had left off many years before, and told us of his more recent work on plasticity. As the older members know, we have had at no time a more enthusiastic, lovable and able member than Dr. Bingham, and on this occasion of his coming back home he was given an enthusiastic welcome and, incidentally, a bit more understanding hearing.

At the November meeting, Dr. Edgar gave his third talk, his subject being "Radiation as a Factor in Chemical Reactions." That war-time enthusiasms were already beginning to wane a little were evidenced by the fact that Chairman Robb, of the War Orphan Committee, reported that he was having a hard time raising the budget of $100. It was at this meeting also that we learned of Dr. Magruder's success in organizing the chemists in and around Norfolk. Under the designation "The Hampton Roads Chemists Club," this group will be referred to frequently in the minutes of the parent society.

Unfortunately, the Virginia Section had but recently changed the date of its monthly meetings from the third to the second Friday. Without knowing of this conflict in dates, the Hampton Roads Club had fixed upon this same day. This conflict of dates has remained through the years and, in instances, has been of some embarrassment to both groups.

The speaker at the November meeting was Dr. A. F. McLeod, his subject being "A New Method of Procedure for Separating Metals and Acids in Qualitative Analysis." An interesting sidelight on this meeting was the distribution by Dr. E. C. L. Miller of some recent data on the "Atomic Weights of Isotopes." We can hardly realize that just seventeen years ago this subject was practically new to the members of our Section and, in fact, to chemists in general.
The liberal spirit of the Section was again demonstrated at the January [1922] meeting when Dr. E. C. Levy of Richmond, a prominent bacteriologist and at that time head of the Department of Health of the city, was the speaker, his subject being "The Work of His Department."

That Dr. Levy, a physician and prominent bacteriologist and public health worker, and former president of the American Public Health Association, should be followed at the February meeting by Dr. R. E. Loving, a physicist, his subject being "Electrons and Some Applications," is highly indicative of the wide range of speakers and subjects that the Section has welcomed since its organization. It is the well considered judgment of the writer of this that such a cosmopolitan atmosphere has, through our whole history, proven to be one of the most valuable assets that the Club has had. At this meeting another Robb comes into the picture--Prof. R. G. Robb, of William and Mary, being elected to associate membership.

An old Richmond College man, Dr. E. E. Reid, friend, college-mate, and boyhood associate of some of the Section members, then professor of organic chemistry at Johns-Hopkins, and upon whose shoulders had fallen the mantle of the great Remington, was the speaker at the March meeting, his subject being "The Effect of Sulphur in Azo Dyes." An interesting note at the close of the meeting is here quoted in full:

"On this date there was a joint meeting of the American Society of Mechanical Engineers, the American Institute of Electrical Engineers, and the Virginia Section of the American Chemical Society. The executive committees took lunch together at Murphy's Hotel, and twelve chemists dined with about fifty engineers at the same hotel in the evening. Engineers and chemists were invited to all meetings. Dr. Reid addressed the joint meeting in the afternoon on 'Coal Tar and Its Products'"

Although the University Club had furnished excellent facilities for our dinners and meetings, it seemed wise to go back to the Medical College of Virginia, and since 1921, Room 209, in McGuire Hall, has been used regularly. In fact, during the past few years, when there has been some suggestion looking toward the selection of some other meeting place, the sentiment has been overwhelming for the Medical College as headquarters for the Section.

Dr. Hall Canter, of Randolph-Macon, was the speaker in April, his subject being "Aromatic Synthesis." While comparisons are always dangerous, it would seem not out of place to observe that few men who have ever addressed the Club are more delightful in personality, or in ability to interest his audience in technical fields.

Mr. F. O. Baldwin, in charge of the Richmond City Water Purification Plant, was the speaker at the May meeting, his subject being "Methods, etc., Used in His Work." Mr. Baldwin urged the Section to use its influence for the development of a new filtering plant, as the one in use at that time, he stated, was one of the most antiquated in the country.

At the first meeting of the fall of this year--October--it was brought to the attention of the Section that the American Institute of Chemical Engineers would meet in Richmond in December. Upon motion that the Section lend every assistance on the occasion of the visit of this important group, a committee was authorized, consisting of Drs. Ryland, Carpenter, Edgar, and Messrs. Allen and Rudd.

The speaker at this meeting was the beloved Edgar Fahs Smith, of the University of Pennsylvania, his subject being "Early Organic Chemistry in the United States." It is needless to say
that it was a delightful evening, and Dr. Smith received quite an ovation on this occasion. In connection with his address he showed a lantern slide of the apparatus used by Hare in his preparation of ethyl nitrite, and called attention to its resemblance to the Liebig condenser of today. There were some seventy in attendance at the meeting.

During the years immediately after the war, the attention of Section officers and members was frequently called to the importance of chemistry in national affairs, and we were deluged with requests that as individuals we keep this matter before our senators and representatives in Congress.

At the November meeting Dr. Robert N. Pease, of the University of Virginia, was the speaker, his subject being "Recent Developments in Contact Catalysts."

Due to the meeting of the American Institute of Chemical Engineers as guests of the Section, in early December, the regular monthly meeting was omitted for that month.

1923

At the first meeting of the new year, January 12, 1923, a letter was read from the California Section calling attention to what they considered "inordinate expense attached to conducting the affairs of the American Chemical Society." Dr. E. C. L. Miller was the speaker on this occasion, his subject being "Bacteriophage."

Due to the illness of Dr. Edgar, who was scheduled to speak at the February meeting, the whole evening was taken up by the discussion of Section affairs. Restlessness over the obligation of the Section to contribute $100 yearly to the war orphan was evidenced by the passage of a motion directing the secretary to find out from J. P. Morgan & Company, through whom the donations had been sent, what at that time was the status of the boy's educational progress.

A committee composed of Dr. E. C. L. Miller, Dr. Garnett Ryland, and W. F. Rudd was appointed to cooperate with a like committee from other scientific organizations in the State in working out plans for the organization of a Virginia Academy of Science.

Dr. W. M. Corse, of the National Research Council, was the speaker at the March meeting, his subject being "Nickel, Its Metallurgy and Uses," motion pictures being used as a part of the program.

Dr. Graham Edgar was the speaker at the April meeting, his subject being "Atomic Weight, Isotopes and the Breaking up of Atoms." An interesting item in the minutes of this meeting was the statement: "There were about 100 present."

The May meeting brought an unusual amount of business. First, the committee on the French orphan reported that a request had come for the continuation of our support. On motion, this was adopted. Dr. Miller reported that the Academy of Science had been organized at Williamsburg, and urged that members of the Section lend their support to the new organization by taking membership in it and attending the meetings. It is worth-while to state that from the beginning Dr. Miller has been secretary of the Virginia Academy of Science, and has done a noteworthy job in building up the membership and interest in the work of the Academy.

On motion of Dr. Loving, it was decided that the May meeting a year hence, that is in 1924, be held as a section of the Academy of Science at its annual session in Lexington, and also at that time the Academy be invited to meet in Richmond for the spring of 1925. Dr. Loving was the
speaker of the evening, his subject being "The Physics of the Air."

Two young men, both of whom were to have prominent parts in the work of the Section in later years--William Clift and Edwin Cox-- were made members of the Membership Committee. The good work of this new Membership Committee soon became evident, as Mr. Cox presented names of eight for associate membership. Of this number, four are still active [1939], some of them having rendered the Section fine service.

The speaker at the October meeting was Dr. E. R. Weidlein, Director of the Mellon Institute, who gave an interesting and instructive talk on "Science and Industry."

Dr. Ryland announced that Dr. E. E. Slosson would deliver the Thomas lectures at the University of Richmond during October, and that the Section was invited to cooperate with that institution on the occasion of Dr. Slosson's visit. Delivered in the popular vein, they were heard by large audiences and were most enthusiastically received.

This was the beginning of a spirit of cooperative effort between the Virginia Section and the University of Richmond that has been carried on through the years and has proven highly successful.

W. D. Collins, of the U. S. Geological Survey, was the speaker at the November meeting, his subject being, "The Industrial Value of the Soft Waters of the South". The policy of the Section at this time was beginning to be directed toward arranging programs that would make definite appeal to the industrialists and other intelligent citizens of the city and State. The policy was continued for a number of years with marked success. Laymen who knew little of the activities of scientific organizations were beginning to be definitely interested in the work of the Virginia Section. Coincident with this objective was the effort to have one of the local Richmond papers make use of Science Service, and H. K. McConnell, whose name appears for the first time in the minutes of the Section, was named chairman of a committee to interview the papers to this end. Mr. McConnell had recently come to Richmond to fill the place vacated upon the transfer of Mr. Forrester to Louisville.

At the December 1923 meeting Dr. Charles H. Herty was the speaker, his subject being "American Independence in Dyes and Other Synthetic Organic Chemicals--A Victory." Edward D. Quarles and Granville G. Valentine, prominent business men, and William Ralston--the efficient editor of *The Bulletin* now [1938]--were elected to associate membership.

1924

James G. Vail, of the Philadelphia Quartz Company, was the speaker at the January, 1924, meeting, his subject being "Various Uses of Sodium Silicate." It was reported that a visit to officers of the Richmond Chamber of Commerce by the chairman of the Section, and H. K. McConnell, in an effort to obtain closer cooperation between our group and the Chamber, had been highly successful and, as a result, they had appointed a committee to bring this about.

Home talent was in evidence again at the February meeting, and C. E. McCoy read a paper on a particular type of smoke screen, and Dr. S. S. Negus, who had come to the University of Richmond only a few months before this, presented a paper on "Chemical War Babies." This was the first time that Dr. Negus' name had appeared in the minutes. It was evident from the first that his coming to us would prove a very definite help to the Section.
The committee appointed to interview the newspapers of Richmond about the use of Science Service reported that they found them very little interested in the proposition. It may be noted here that fifteen years later these same papers are tremendously interested in science news notes, and, in instances, are willing to pay fairly liberally for them.

The prize Essay Contest in Chemistry in the high schools of the State was a matter of frequent discussion at meetings during these months. They aroused great interest among high school students and doubtless have been productive of an interest in chemistry among laymen at large that would have been difficult to develop by any other method.

A second February meeting was held this year--1924--this one on the 28th of the month, with Dr. Thomas Midgely, Jr., of the General Motor Chemical Company, as speaker, the audience being greatly swelled by the gasoline and oil people of the city who had been invited to hear at first hand something about "Gaseous Detonation." It was an evening long to be remembered. The writer recalls, perhaps, more of this address than of almost any he had had the privilege of hearing over his long period of attendance at Section meetings. This is due, partly at least, to the fact that he had always been greatly disturbed by the knocking of his old Ford, and welcomed anything that gave promise of quieting this down even a little. Dr. Midgely suggested that he and his co-workers seemed definitely on the trail of a satisfactory solution of this problem.

The April meeting gave further evidence of the attempt to diversify the interests of the Section. Dr. J. Shelton Horsley was the speaker, his subject being "The Dependence of Surgery on Chemistry." During this same period --1923-24-- L. C. Bird, then secretary of the Section, conceived the idea of a monthly bulletin to take the place of and supplement the ordinary monthly notices sent to members. Mr. Bird's suggestion was not received with particular enthusiasm even by Chairman Rudd, who had worked enthusiastically with him on all other matters. It was argued that the expense would be great, and that paying advertisements would be difficult to obtain. Despite the discouraging attitude of Section officers and members, Mr. Bird went ahead with his plan. The success of The Bulletin is evidence of the value of vision and enthusiasm of youth versus conservatism and fear of failure that often come with years and experience.

The first meeting of the Section with the newly formed Academy of Science was held at Lexington in May, 1924. The attendance was good, and the discussion of the correlation of high school and college chemistry was led by Maj. Leroy L. Sutherland of the Staunton Military Academy, representing the secondary schools of the State, and Dr. Garnett Ryland, speaking for the colleges.

The question of inviting the American Chemical Society had now been dormant for two or three years. On August 5, a meeting of the Executive Committee of the Section and certain other members was held in Dean Rudd's office to consider this subject again. Those present were: McConnell, George H. Nash, Crockett, Valentine, Cox, and Rudd, representing the Section, and Mr. Montgomery representing the Chamber of Commerce. Imagine, if you will, the writer's gratification at the unanimous approval of the idea by this group, and their recommendation that a special meeting of the Section be called for August 8, and that this invitation be the special order of business. At the meeting of August 8th there was a tie vote on the issue, as it was pointed out that the Virginia Academy of Science had been invited to meet in Richmond the next spring, and had accepted the invitation.

On October 3, A. L. Walters of Eli Lilly and Company made the first public address on
"Insulin" that the majority of those present had heard on this subject. His forecast of what this new product would do made a deep impression upon his hearer. We well recall that just about this time a friend of our family—a handsome, attractive young woman—had developed diabetes and had died within a few months. Mr. Walters made it reasonably clear that while prior to this time diabetes in youth was almost synonymous with a death sentence for them, he believed that if taken in time and treated consistently, this new therapeutic agent would make diabetes a little less dangerous to the young than to the old.

At the November meeting, Gen. Amos Fries spoke on the "Peace Time Use of the War Time Gases and Their Derivatives." Incidentally, the use of chlorine for colds had become almost a fad with physicians in certain parts of the country. At this meeting a committee was appointed to push the Prize Essay Contest among the high schools of the State.

At the December meeting, W. D. Bigelow of the National Canners Association was the speaker. The committee on the French orphan was continued for the purpose of reporting at a later date as to whether or not this activity of the Section should be continued. After much discussion, the motion to invite the American Chemical Society for 1926 or 1927 passed unanimously.

1925

At the January meeting H. E. Howe was the speaker, his subject being "Chemistry and the World's Work." Although Dr. Canter had been appointed chairman of the Section for this year, we find H. K. McConnell, the vice-chairman, presiding frequently because the chairman's health would not permit his being regular in attendance. Dr. Neil Gordon, who had been largely instrumental in organizing the Section on chemical education in the American Chemical Society, and the establishment of The Journal of Chemical Education, was the speaker at the February meeting and spoke briefly about The Journal and the Prize Essay Contest. T. R. Midgely was the main speaker of the evening, his subject being "Ethyl Gasoline."

At the March meeting, Dr. Negus spoke on the "Chemistry of Titanium," and Edwin Cox on "Insecticides."

The April meeting was held at the University of Virginia, and a committee was appointed to attend the meeting of the American Chemical Society in Baltimore and invite them to Richmond. Dr. Hugh L. Taylor was the speaker, his subject being "A Theory of Catalytic Surface." The Nominating Committee to name officers for the next year consisted of L. C. Bird, C. E. McCoy, and Dr. John H. Yoe.

The Section held its May meeting in Richmond as a section of the Virginia Academy of Science. Papers were presented by Drs. Negus, Gay, Yoe, and Roy S. Cook, and Mrs. Myer Vitsky. H. K. McConnell was elected chairman for the next year.

The Executive Committee of the Section met in the home of Mr. Rudd on September 18. At this time plans for obtaining cooperation from various parts of the State were discussed and worked out. The Membership Committee was to be made up of representatives from all sections of the State.

Another meeting of this committee was held on November 2, at the University Club, at which time a committee on Chemical Education was appointed with Dr. Leonidas Littleton, of Emory & Henry, as chairman. Student membership was fixed at $1.00 per year, and a committee to look into
the matter of broadcasting science notes, etc.--consisting of H. K. McConnell, Dr. Miller, and W. F. Rudd--was appointed.

At the regular meeting in October, Dr. H. E. Howe was again with us, his subject being "Chemistry in Industry." After considerable discussion, a motion was passed that an invitation to out of town members of the Section to attend the monthly meetings, with entertainment offered them, was ordered printed in *The Bulletin*. The name of William G. Guy, who had recently come to the College of William and Mary, appeared for the first time in the minutes.

J. A. Callenbach, of Norfolk, was the speaker on November 20, his subject being "Coke Ovens." The name of Rodney Berry, who from that time has been one of the Section's most active members, appeared for the first time.

At the December meeting, J. F. Norris, President of the American Chemical Society, visited the Section officially, his address on "Petroleum as a Raw Material in Chemical Industry" being almost an uncanny peep into the future of petroleum chemistry.

1926

In January, Dr. W. A. Patrick, of Johns Hopkins, spoke to the Club, his subject being "Silica Gel." The name of Frank L. Jobson, an interested layman who became a regular attendant at the Section, appears.

Dr. H. C. Sherman, of Columbia University, the preceptor of probably more of the Club's men that any other man, was the speaker of the evening (February meeting), his subject being "Recent Advances in the Chemistry of Nutrition." On motion, a resolution was adopted that the monthly *Bulletin* be sent to each member of the Section, they to pay 25c as an annual subscription to same. Mr. McConnell reported that the American Chemical Society had accepted the invitation to meet in Richmond in 1927, and the dates had been fixed from April 11-16. Upon nomination by W. F. Rudd, Edwin Cox was named as general chairman of the Convention Committee.

The March meeting was held at Hopewell, and Dr. George Juer, a long time worker in the field of chemistry of artificial silk, was one of the speakers, his subject being "The History of Artificial Silk in America." An interesting sidelight on Dr. Juer's talk was the clever stories woven into his otherwise technical address. This was followed by a talk on "Recent Developments in Sulfuric Acid Manufacture," by B. G. Slaughter, of the Tubize Company.

The April meeting was held in Norfolk, where we were guests of the Hampton Roads Chemists Club, with their president, J. A. Callenbach, presiding. Dr. Guy, of William and Mary, was the principal speaker, his subject being "Isotopes." The attendance was good, there being about forty-five from Norfolk and vicinity, twenty from Richmond, with Williamsburg and Hopewell both being represented.

The May meeting was held at Charlottesville with the Virginia Academy of Science, Edwin Cox presiding. Among those on the program were Drs. Benton, Yoe, and Pease, and Prof. McCrackan.

At the June meeting there was considerable discussion of arrangements for entertainment of the American Chemical Society, and officers were elected for next year--William Clift being named chairman.

On September 27, there was a preliminary meeting of the officers, at which time convention
plans were the principal subject of discussion, and it was decided to request Dr. Parsons to attend the next meeting. Further, it was decided that there would be no out-of-town meetings until after the American Chemical Society Convention was over.

On October 11, another meeting of the officers was held, at which time enlarged plans for *The Bulletin* were worked out.

The regular meeting was held on the 22nd, at which time Dr. J. Shelton Horsley introduced Dr. Guy, of William and Mary, who talked on "Isotopes." Convention plans were freely discussed, and the name of W. F. Hindry, of Hopewell, appears in the minutes for the first time. Mr. Hindry has been closely associated with the work of the Section now for fifteen years, attending most of its meetings, although he must drive from his home in Fredericksburg, where he has been located for the past few years.

As was to be expected, most of the business of the Section during the season of 1926 and 1927 was taken up with discussion of convention plans. As previously reported, Mr. Edwin Cox was general chairman of the Convention Committee, and Mr. Clift, at this time chairman of the Section. The minutes as reported by Secretary McCoy for the next few months are fuller than they had been in the past.

Dr. Parsons accepted the invitation to appear at the November meeting. He discussed the work of the Society in general, and then answered questions concerning plans for the convention in April. Note was made of the attendance of two members from Hopewell who had driven over in spite of a very cold and stormy night.

Dr. James Lewis Howe, of Washington and Lee, spoke on "Platinum & Company" at the December meeting. The jewelers of the city had been invited to attend this lecture and were present in considerable number. In fact, whenever speakers have presented subjects that would probably appeal to certain groups of laymen living within the jurisdiction of the Section, general invitations have gone to them telling them of the nature of the address and urging them to be present.

**1927**

Dr. J. Shelton Horsley was the speaker at the January meeting, his subject being "Recent Chemical Remedies in Surgical Work." Early in the month the University of Richmond had lost their chemical laboratory by fire. Plans were made immediately for a modern chemistry hall, and Dr. Ryland invited members of the Society to inspect these and offer suggestions on the new laboratory. He further asked for any journals which might be contributed to complete their files, as well as any other books that would be of interest to the laboratory library, even though such books were not latest editions. The importance of enlisting the interest of all southern chemists in the Richmond meeting of the American Chemical Society was stressed, and suggestions made as to how this could be brought about. It was decided on vote that for the time being the circulation of *The Bulletin* be greatly enlarged, and that it be sent to the chemists of North and South Carolina. Dr. Negus announced that plans for a series of broadcasts over WRVA had been made, subject and speakers to be announced later.

A special meeting of the Section was held on January 24. At this time a letter from Mr. Edwin Cox was read, in which he offered his resignation as general chairman. His resignation was made necessary by the press of business duties which kept him out of town much of the time.
The Virginia Chemists’ Club and The Virginia Section, 1917 – 1927

Dr. F.B. Carpenter
One of the Founders of the Virginia Chemist’s Club
Chairman of the VA Section, 1909

J. Bernard Robb
Chairman of the VA Section, 1915

Dr. Garnett Ryland
Chairman of the VA Section, 1918

H. K. McConnell
Chairman of the VA Section, 1925

William Clift
Chairman of the VA Section, 1926
The Virginia Chemists’ Club and The Virginia Section, 1917 – 1927

Robert F. McCraken
Chairman, 1928

Edwin "Pete" Cox
Chairman, 1929

Dr. William Goggin Crockett
Chairman, 1930

William Joseph Nissley
Chairman, 1931

Dr. William R. Corntthwaite
Chairman, 1932

Dr. Lauren B. Hitchcock
Chairman, 1933

C. Braxton Valentine
Chairman, 1934

Thomas A. Balthis
Chairman, 1935

Dr. John Howe Yoe
Chairman, 1936
Upon motion made and unanimously carried, Mr. Clift, Section chairman, was elected chairman of the Convention Committee also, and Mr. Cox, vice-chairman.

A talk on "Ultra Violet Light" by Dr. C. N. Warfield, associate professor of physics at the University of Richmond, was delivered at the regular February meeting, held on the 11th, at the Medical College of Virginia. General reports from committee chairmen and convention plans became a part of the minutes of this meeting. Already it had become apparent that convention plans would not follow the routine programs ordinarily offered by host cities. It seemed to be the unanimous judgement of all having part in these plans that our entertainment of the parent society should be very definitely of a Southern, and Virginian, and even Richmond flavor.

The March meeting was devoted entirely to business. Committee chairmen reported in even more detail on convention arrangements than had been done before. A suggestion was made by Prof. Aubrey Straus that the cooperation of the laymen of the city might be obtained by having speakers appear before all of the civic clubs, asking loan of their automobiles for convention week, and also requesting the owners or their wives to chauffeur them as they might find it possible to do so, and in general to spend as much time as was practicable at convention headquarters making our guests feel at home. This whole matter was followed out on a large scale, bringing results in the way of highly personalized transportation facilities, and a spirit of friendliness around convention headquarters that we have never seen at any other convention.

The final business meeting before the coming of our guests was held at the Jefferson Hotel on April 4. It was apparent from reports made that to the minutest detail arrangements were going satisfactorily. A significant resolution passed at that time was to the effect that male members of the Section would register at convention headquarters and pay the registration fee just as would the guests. We quote in full Secretary McCoy's notes of the ninetieth meeting of the Section. They are brief, but effective:

This meeting lasted one week, April 11-16, inclusive, 1927. It was devoted to the Spring Convention of the national institution which was held in Richmond, April 11-17, 1927. This being the first time the convention was held in Richmond, and sponsored by the Virginia Section. The minutes of any portion of this meeting may be had upon application to Dr. C. L. Parsons, Secretary, American Chemical Society, Washington, D. C.

This year's work of the Section, climaxing as it did in the attendance in Richmond of more chemists than had ever placed foot on Virginia soil before would not be complete without a few observations about the magnificent spirit of cooperation and interest shown by all who had any part whatever in initiating or carrying out these plans. We believe we are safe in saying that as never before Richmond laymen lent themselves to making the convention a successful one. Members of the parent society by the score, or even by the hundred, continue to comment upon the Richmond meeting, and say frequently that if we do not want them again, we had better not risk an invitation. The effect of this cooperative effort to cement the good will has lasted all through the twelve years that have intervened since that time. In fact, among all the organizations to which the writer has had the privilege to belong, in the Virginia Section of the American Chemical Society from the date of its organization through the now slightly more than thirty years of its history, there has been more unanimity of purpose, less friction, and less selfishness manifested that it has ever been our
privilege to observe elsewhere.

A special meeting was called late in April for a general discussion of the aftermath of the convention, and Mr. McConnell, who had so efficiently handled the finances, reported a net balance of $1,900. He also gave a complete financial report of the convention to date. Never having had so much money in its treasury at one time, the Section members found themselves with a great diversity of opinion as to what should be done with this. The net result of this discussion was the passage of a motion authorizing the president to appoint a committee to report at a later date on this problem.

The May meeting was held at Blacksburg during the session of the Virginia Academy of Science. Those taking part in the program were: Drs. Fish, Hussey, Littleton, Negus, Yoe, and Guy, and Messrs. Pitts, Ellett, and Holden.

The June meeting was held at the Medical College of Virginia on the 10th. Following our regular custom for the last meeting of the year, there was no guest speaker. Mr. Clift brought it to the attention of the Section that there seemed to be a disposition in various parts of the State to form small local sections from the present membership of the parent Section. To avoid such a condition, he suggested that general subdivisions of the parent Section be created, all working under the direction of the main Section, but each having a chairman who would hold the title of vice-chairman in the parent group.

The Nominating Committee reported as follows: Dr. S. S. Negus, chairman; C. E. McCoy, vice-chairman; R. A. Wakefield, secretary; W. J. Nissley, treasurer; Dr. E. C. L. Miller, editor; H. K. McConnell, councilor; W. Catesby Jones, business manager of The Bulletin.

The committee appointed at the previous meeting to recommend what should be done with the surplus fund reported as follows: “It is recommended by this committee that the entire sum be placed in trust in the bank as a part guarantee against the expenses of the next convention of the Society in this Section. Also, the interest only to be used at the discretion of the Section.” After considerable discussion, the following motion was passed: $250.00 to be given to the American Chemical Society Endowment Fund; $1,000.00 kept by the Virginia Section, and the remainder to be turned over to the research Endowment Fund of the Virginia Academy of Science. It is interesting to note that the $1,000.00 kept by the Society was used for the purchase of a 6% bond, and in 1937 the bond was paid in full and this amount reinvested in a 5% bond.

At the first meeting of the new winter session, on October 21, which was held in the auditorium of the Woman’s Club, a large crowd heard Dr. Charles H. Herty, at that time Advisor to the Chemical Foundation, his general topic being “Chemistry in Medicine.”

Dinners before the monthly meetings had been held intermittently prior to this time, but we find the minutes stating pretty regularly now that the dinners were being held, with attendance good. Dr. Gerald Wendt was the speaker at the November meeting, and we find this interesting observation in the minutes: “The auditorium was crowded and there was hardly standing room left.” This comment is of especial interest to those of us who have followed the Section through all of its history. Well do we remember when it was extremely difficult to get as many as twelve or fifteen out at the monthly meetings. That the Section should have grown in interest and in influence as it has done is a matter of profound satisfaction to us.

At this meeting the chemists in and around Norfolk made a definite request for permission to organize a group of their own, to be known as the Hampton Roads Chemists Club. This was, of course, granted. It is of interest to note that from that time the Norfolk group has been an active and
efficient local organization, now numbering more than fifty members, each of whom pays $5.00 annual dues. Their relationship with the Virginia Section has always been delightful, and instead of weakening the aims of the parent Section, we have little doubt but that both chemistry as a whole in the State, and the Section itself has been greatly strengthened by the fine work this group has done.

Dr. J. C. Morrell, of the Universal Oil Products Company of Chicago, was the speaker at the December meeting. Comment in the minutes brings us the information that Dr. Morrell's paper was so well received that a discussion of it cut short the business session.

This brings to a close sketchy review of the second ten years of the life of the Club. For the writer it has brought back much of interest that he had almost forgotten. Some of the older members of the Section have passed away or left the Section for other activities; many new members came in that have been pillars of strength in the work that we are trying to do.

**The Virginia Section, 1927-1938**

[Prepared by Major Jones]

[Editor’s Note, 1938] Major Jones, who presents the history of the next period--1927 to date, had doubtless found that much of interest in his decade had its roots in the one that began as we entered the World War, and ended with the banner year of our history when we were hosts to the American Chemical Society.

It is my duty and pleasure to endeavor to portray in as interesting manner as possible the many things that transpired in the Virginia Section during the ten year period, beginning October, 1927. [From October, 1927--93rd Meeting--to May, 1938--194th Meeting.]

At the time that this was written I had not refreshed my mind with these happenings, but wish to prophesy (this prophecy being made by one who has been intimately connected with and interested in the affairs of the Virginia Chemists Club and its successor, the Virginia Section of the American Chemical Society, since January, 1911) that this period has been the most interesting period of our history, unless my good friends, Dr. Magruder and Dean Rudd, make theirs more interesting in the writing; and also the period in which the Section showed more proportionate growth, and progressed further along many lines.

**1927-1928**

Dr. Sidney S. Negus, Chairman

When the fall meetings started in 1927 we had not recovered from our superb efforts in entertaining the spring meeting of the American Chemical Society and by the same token our steady growth in membership, and more scientific consciousness date from that meeting. The general result was more activity among a large group of our members, and I believe better attended and more interesting meetings.

There was quite a change in the January Bulletin and it was hardly recognized, as the previous eight-page issue was printed on very cheap paper. The new Bulletin appeared printed on Falcon enamel and consisted of sixteen pages, with five and three-quarter pages of advertisements. Dr. E. C. L. Miller was the editor for 1927-28, assisted by an editorial board, consisting of William

The chairman for this year was a forerunner of the many outstanding chemists from outside the border of the State who came to us unknown, but who fitted perfectly into our "Happy Family," and who has become more loved and appreciated as the years have rolled by. Sid Negus has been a guiding genius and inspiration to the Virginia Section during the many years he has been with us. He came to Richmond in 1923, served as editor and vice-chairman and is now professor of chemistry at the Medical College of Virginia. He was awarded the degree of A. B. at Clarke, M. A. at Harvard and Ph. D. at Johns Hopkins.

It was in January 1928, that a long to be remembered meeting was held in Hopewell. Dr. Gus Dyer of Vanderbilt University was the speaker, his subject being "Relation of Chemistry to Industrial Development." Dr. Dyer has the reputation of being quite a humorist and he lived up to his reputation. I think that was the first of many annual meetings with the Hopewell group. The March meeting was a joint meeting with the University Club, with Dr. Hugh S. Taylor, Princeton University, who spoke on Catalysis.

The April meeting was held in Roanoke. This was before the formation of the Blue Ridge Section, and was one of the many fine meetings that were held with our friends in the southwestern part of Virginia.

In this issue, The Bulletin congratulated the chemists at V. P. I. on the completion of the new Chemistry Building, Davidson Hall. The Bulletin contained a picture of the building and description by Dr. J. W. Watson. This issue also contained an article on "The Industrial History of Hopewell," by Walter F. Hindry, in honor of our hosts for the January meeting.

As an indication of our growth during this period, our membership went over the 125 mark, entitling the Section to two councilors. Dr. E. W. Magruder, who has been so active in forming the Virginia Chemists Club, was duly elected.

A very progressive move was made in 1927-28, sponsored by Mr. William Clift, in the appointment of an Industrial Committee to act as a clearing house for information with regard to industrial activities of the State and to function in cooperation with the State Chamber of Commerce and the various city chambers of commerce.

For some time, it had been suggested that each year one meeting of the Section should be devoted to chemical education in Virginia. Carrying out this idea, a joint meeting was arranged between the Virginia Section and the Virginia Academy of Science. Dr. Winn Carter of the University of Virginia was very active in arranging the meeting, as indicated by voluminous correspondence with Dr. Negus. The meeting was held May 4th and 5th at William and Mary. It was in the nature of a round table discussion. The following topics were suggested for discussion:

1--Quantitative work in high school laboratories
2--Quantitative work in freshman college laboratories
3--Qualitative analysis in freshman college laboratories
4--The optimum number of hours of laboratory work per week in college chemistry
5--The number of students per instructor
6--Sectioning of students according to type of training desired
7--Sectioning of students according to ability
8--Description of special laboratory devices or experiments that may have developed
   in the various laboratories and that might be suggestive and helpful

The Mr. William Clift mentioned above is the same "Bill" Clift that piloted so successfully the
American Chemical Society meeting the previous year. So successful was it that it is still being
referred to as "one of the best meetings ever held by the Society." During the June meeting of 1928,
which was held at the Medical College of Virginia, a very interesting discussion was promoted by the
fact that there was some surplus money in the treasury. This was a rather unusual condition and we
had no past experience to help guide our deliberations. "There seemed to be many different
opinions and drawbacks to nearly all suggestions as to its disposition," according to the minutes of
the meeting. Finally Dr. Garnett Ryland offered the following resolution:

    Be it moved that the Executive Committee be instructed to invest $1,000 of
    the fund in real estate mortgage bonds.

It is interesting to note that this surplus was created by money left over from the very
successful American Chemical Society meeting held in Richmond the previous spring.

In the same connection, we have on file a very cordial letter addressed to Mr. Clift from Dr.
George D. Rosegarten, president of the American Chemical Society, expressing the thanks and
appreciation of the Society for "The very generous action of the Virginia Section in making a
contribution to the Endowment Fund of the American Chemical Society." A check for $300, a part of
the proceeds from this meeting, had been previously sent to the Society.

1928-1929
Dr. Robert F. McCracken, Chairman

The Chairman for this year is a South Carolinian by birth, having come to Virginia in 1912, so
I think we can call him a Virginian by this time. Dr. McCracken was awarded a B. S. degree by the
Military College of South Carolina in 1903, and records show that he graduated second in his class.
He has been teaching various branches of chemistry at the Medical College of Virginia since
coming to Richmond. He has been a member of the American Chemical Society since 1911 and
has made many contributions to scientific literature.

Dr. Henry G. Knight, Chief of the Bureau of Chemistry and Soils, U. S. Department of
Agriculture, addressed the October meeting, his subject being "Industrial Utilization of Agricultural
Products." This fact is of particular interest at this time [March, 1938] because a Virginia Farm
Chemurgic Council has just been formed to carry out the very idea expressed by Dr. Knight. Mr. J.
H. Elder, in reporting Dr. Knight's address, winds up by saying: "The industrialist must be shown by
the farmer, through the Bureau of Chemistry and Soils and other agencies, that waste farm products
are of value to him, before he will become interested in them. Here is a great new field for the
research worker. Let every young man who contemplates making chemistry his life's work consider
the service he may render mankind by helping place the great agricultural industry on a paying
basis."
At the October meeting in 1928, Mr. William Clift, chairman of the Industrial Committee which was appointed the previous year, made a report on the plans of the committee. The report indicated the committee should be of great assistance to old as well as new industries. The committee report states that the services of the committee were offered to the State Chamber of Commerce and to the Richmond Chamber of Commerce. The latter made a very definite request at once, namely, that reports be prepared on two industries that were interested in locating in Richmond. They wished to know the basic materials used in these industries, the nearest sources of supply, and a brief summary written from the standpoint of the chemist as to why these particular industries should locate in the James River district.

The November meeting was rather unique in that the three speakers were members of the local Section and according to the minutes "they produced a very creditable and interesting meeting." The triumvirate consisted of Drs. Cornthwaite and Forbes and Edwin Cox. As Mr. Cox's paper dealt with "Chemistry and Wheat Flour" he brought his subject "to a rather fitting close by offering those present a slice of some culinary art, made with his wheat."

The first meeting in 1929 was held at the University Club, being a joint meeting with that Club. Dr. Marston T. Bogert of Columbia University, past President of the American Chemical Society, was speaker, his subject being "Science and Art in the Perfume Industry."

Professor Arthur F. Benton, whom I had the pleasure of knowing at the American University Experiment Station when we were both trying to make this country safe for Democracy, was to have been the speaker at the first meeting. Dr. Benton was and still is connected with the Department of Chemistry at University of Virginia. His subject was "Nitrogen Fixation." In the absence of Dr. Benton, Dr. Lauren B. Hitchcock, Professor of Chemical Engineering at University of Virginia, delivered his address. This was one of the first appearances of Dr. Hitchcock before the Section. We were destined later to see a good deal of Lauren Hitchcock, to the distinct benefit of the Section.

The March meeting was held at the Chamberlayne, Old Point, with the Hampton Roads Chemists Club. In the March 1929 issue of The Bulletin was printed a history of the Hampton Roads Chemists Club by William F. Lawrence. As that Club is an integral part of the Virginia Section, I feel that some of that history has a place here. The Club was organized in the fall of 1921. Dr. E. W. Magruder, who was one of the founders of the Virginia Chemists Club, was elected the first President. Mr. J. H. Parkins, who was a member of the chemical staff of the Virginia Department of Agriculture when Dr. Magruder was Chief Chemist, was also one of the Presidents, 1927-28.

A notice was published in the Norfolk paper "of the intention of the chemists of Norfolk, Portsmouth, Newport News, Hampton and Old Point to form an organization for their mutual improvement and entertainment." It seems that the treasurer's report at the end of the year showed that forty-eight had paid dues of $1.00 They were advanced to $2.00 and at the present time[1938] are $5.00, a small sum in consideration of the many benefits derived from membership in the Club, according to the historian.

This Bulletin was given over entirely to description of laboratories and industries of the Hampton Roads district.
Mr. Edwin Cox was born in Richmond. He was educated in the schools of Richmond and received his B. S. degree in Chemical Engineering at Virginia Military Institute in 1920. He has been connected with the Virginia-Carolina Chemical Corporation, Tobacco By-Products Corporation and at present with the Phosphate Products Corporation.

Pete Cox has been active in the Section ever since his graduation. He has served it in many capacities and is considered one of its most valued members. The expression is often heard "Let Pete do it."

The activities of the fall, under the leadership of the new Chairman, got off to a good start in the nature of a meeting in conjunction with the Richmond Chamber of Commerce. Dr. Charles H. Herty was the speaker and gave a most interesting talk on "The Future of Industrial Chemistry in Virginia."

Dr. Herty's long connection with the Chemical foundation, as well as having been Professor of Chemistry at the University of North Carolina, made him eminently fitted to speak on this subject.

Dr. Lauren Hitchcock reported on the work of the Industrial Committee, calling attention to a compilation of names of the manufacturers of chemicals in the State, as well as the names of the largest users of chemicals. Dr. Hitchcock stated that this list had been sent to the various Chambers of Commerce of the State.

November 9, 1929, we journeyed to Hollins, where we had a joint meeting with the Southwest Virginia Chemists Club, Dr. W. G. Guy of William and Mary being the speaker, addressing himself to "Radio Activity." This was a very enjoyable affair, notwithstanding the fact that those attending had to go to Roanoke for the night and that Dr. Guy was escorted to Hollins by Pete Cox. November 1929 was a big month in the Section. We not only had the meeting at Hollins but had one also at our old familiar meeting place, Room 209 at the Medical College, with supper at the University Club, as was our custom during this period. The month was not only outstanding because of the two meetings, but because of the fact that home talent put on the show at the Richmond meeting. A variety of subjects were discussed by those of our home town boys, that is, if Ashland will consent to annexation.

Dr. I. A. Updike of Randolph-Macon led with "Reduced Organic Sulfur," followed closely by William Ralston of the Tobacco By-Products Corporation, discussing "Nicotine as an Insecticide." Fred Genz of the Virginia-Carolina Chemical Company finished up by presenting a paper "Industrial Chemistry and the Fertilizer Industry."

It is interesting to follow through on the career of some of our members who have appeared on our program since this time about nine years ago. Dr. Updike and Bill Ralston have continued their activities in the Section, contributing very materially to its welfare. Dr. Updike is the present Chairman of the Section and Bill Ralston, who received his early education at William Barbour Academy, Baisley, Scotland, coming to this country in 1914, is Editor of The Bulletin for the second time, having served in positions of responsibility previously. Fred Genz, who came from Connecticut, has left our Section, going to Pennsylvania.

The 117th meeting was held as a joint meeting with the Hampton Roads Chemists Club at William and Mary, Williamsburg. One of the features of this meeting was the damage of the
chemical laboratory by fire. The fire started just as the chemists were arriving for the meeting. Braxton Valentine, Secretary, states, however, that "It is not believed that the Virginia Chemists set fire to it." It was thought at first that it was an extra demonstration of welcome on the part of our hosts, but this was proven to be false also.

Dr. Wilbur A. Nelson, Professor of Geology at the University of Virginia, started off the new year by discussing "The Mineral Resources of Virginia," at the University Club on January 10th. Dr. Nelson stressed the need of a complete survey of the mineral resources of Virginia. He remarks, "It is interesting to learn that a man might make one or two dollars a day panning gold in Louisa County." This is very interesting, particularly at this time when gold mining in Virginia is being somewhat revived through the co-operative efforts of the Division of Chemistry, Department of Agriculture and the Virginia Geologic Survey.

In the January issue of The Bulletin, the Industrial Committee announced its program as follows:

1) To foster more efficient and more extensive utilization of Virginia's natural and manufactured resources.
2) To facilitate contact between industry and chemical science.
3) To co-operate with civic and State in the chemical aspects of such governmental agencies throughout the problems as may confront them.

The work under the first objective has been subdivided and allocated to the members of the committee as follows:

A) Collection of data on raw materials available in Virginia, STEADMAN and HEMINGWAY;
B) 1. Collection of data on chemicals manufactured in Virginia, CLIFT and HUSSEY;
   2. Chemical Products manufactured in Virginia, HITCHCOCK and NEGUS;
C) Collection of data on consumption of chemicals in Virginia, CLIFT and HUSSEY.

Under the second objective mentioned above, the preparation of a list of chemical libraries in Virginia, together with an indication of the general scope will be undertaken and eventually made generally available.

The committee is working closely with such civic agencies as the State Chamber of Commerce, in the latter case having the privilege of hearty co-operation from Mr. Clarence Newman, Industrial Research Director. The program adopted as outlined above, while admittedly ambitious, promises to be attained by the capable work of the members already evidenced.

The February issue memorialized the death of Dr. J. B. Weems, Chief Chemist of the Department of Agriculture of Virginia, and Dr. Henry Froehling. Both died on the same day, the 25th of January, 1930.

Dr. Weems succeeded Dr. Magruder as Chief Chemist of the Department. He was beloved by all of his subordinates and his death was a great shock to them as well as to the Department. I can't refrain from adding a personal note. I looked upon Dr. Weems not only as my superior but as one of the best friends I ever had. I still mourn his loss.
Dr Froehling was head of the well known firm of commercial and consulting chemists, Froehling and Robertson. He was one of the outstanding chemists of his day and his reputation as an analytical and consulting chemist is still remembered. His death was a great loss to his profession.

The same issue announced the appointment of W. Catesby Jones as Chief Chemist of the Department of Agriculture.

In April, quite a number of the Richmond chemists escorted Dr. Negus to V. P. I. where he addressed the Southwest Virginia Chemists at Davidson Hall on "Ancient and Modern Alchemy."

According to the May Bulletin, there was a meeting of the American Chemical Society held in Atlanta in April. Reading between the lines one might judge that it was quite a meeting. I note mention of someone's pajamas causing a fire alarm, and it seems that Dr. Herty presented somebody with a brass curtain rail on some occasion. I judge that it was the same occasion that Bill Clift was explaining his cold. It seems also that B. K. Steadman was caught taking a nap at the wrong time and Lauren Hitchcock's room-mate Pete complained about Lauren "perking" coffee early in the morning. After searching diligently through The Bulletin, I discovered that "at least thirty nine were present from Virginia" and that papers were presented by Professors Benton, Lutz, Yoe, Fish, Hitchcock, McCracken and Forbes.

There were two meetings in May, 1930, one in Richmond on the 2nd and one May 9th and 10th which was a joint meeting with the Virginia Academy of Science at Randolph-Macon, Lynchburg.

On May 10th a symposium was held on the subject "Industrial Orientation and Professional Guidance for Virginia Chemists." It was led by Dr. Sidney S. Negus, and its purpose was to promote a broader understanding between industrial and educational interests. The field was divided into Industrial and Educational Divisions.

According to the last minutes presented by the 1930 Secretary, the speakers at the June meeting were Mr. Fried Chicken and Dr. Smithfield Ham. He also states that it was a very pleasant occasion and ended a very successful year for the Section. This meeting was of extreme importance and the Secretary made the following introductory remark: "In order that our wives and the other ladies who will attend the June meeting might have some idea as to the great studies of the Virginia Chemists the following program of brief abstracts of researches have been prepared. Each paper was limited to two minutes:

"Some Studies on the Direct Lineal Descendants of the Pithecanthropus Erectus, and Tetramethylparaphenylenediaminesulphoxazobenzene, or Why Is a Chemist and How?"--Dr. C. V. Holland.

"The Truth about the Complex of Ceriumargentocyanide and 2,3,5,6-Tetramethylgammagluconolactone, or the Hunting of the Snark (Barristers View)."--Mr. H. K. McConnell.

"Delta-Isoxazoline 5-(2-amino-4-bromo-phenyl) 4-imino-3-methyl-5-phenyl, and HBr, or the Relation of the Samark and Hindu Kush Treaty to the Commercial Aspect and the Foreign Trade in Malonimide Sulphates."--Dr. J. C. Forbes.

"The Series Tetraheptylorthosilicate, Tetracarbonylferrouschloride, etc., or Did Alice Go through the Glass and How?"--Major W. C. Jones.
Dr. Crockett was Professor of Pharmacy at the Medical College of Virginia. He was a native of Tazewell County, Virginia, and attended Hampden-Sydney College, afterwards graduating from New York University with the degree of Master of Science; he then continued his studies at Columbia University and received the degree of Doctor of Pharmacy. He had served the Section as Secretary, Editor of *The Bulletin* and Vice-Chairman.

At the October meeting Dr. Williams told of the plan and details of the new Atlantic University at Virginia Beach.

Chairman Crockett appointed a committee to draw up resolutions of regret at the death of Dr. C. M. Bradbury, who had been with the Department of Agriculture of Virginia for twenty-seven years, and who died August 22, 1930.

The November meeting was held at the University of Virginia, under the direction of Dr. L. B. Hitchcock. Dr. Graham Edgar was the speaker. *The Bulletin* in reporting the meeting states that identification tags and programs were given all members on their arrival at the Cobb Chemical Laboratory, and guides escorted groups through the laboratories, describing research in progress.

The December *Bulletin* published a Check List of Chemical Periodicals and Reference Books in Libraries of the State. This represented hard work and painstaking effort of Dr. W. R. Cornthwaite.

The January speaker was Dr. Wm. G. Guy, Professor of Chemistry, William and Mary, who chose as his subject "What is an Element." Dr. Guy was born in Newfoundland and came to William and Mary in 1925. He went to Oxford as a Rhodes Scholar from Newfoundland.

The January *Bulletin* reported a visit from Dr. Wm. McPherson, President of the American Chemical Society, who was introduced to a gathering of about two hundred and fifty, by Dr. Cornthwaite, who had studied under Dr. McPherson at Ohio State University.

The membership grew consistently during this period, the minutes of each meeting reporting the election of Associate members. In February, the Secretary reported two hundred and thirty-one American Chemical Society members and sixty-nine Associate Members.

I suppose the most outstanding happening during this year was the formation of the Blue Ridge Section. On February 22, 1931, a meeting of the Executive Council of the Virginia Section was held to consider this matter. The following were present: Messrs. Crockett, Ryland, Clift, Negus, Rudd, Cox, McCracken, Himmler, Holland, Bird, and Jones.

The following resolution was unanimously approved to be presented to the Section:

Resolved, that we express our cordial good wishes toward the formation of the desired Southwest Virginia Section, our willingness to relinquish to it the territory west and south of and including the counties of Alleghany, Rockbridge, Amherst, Campbell and Pittsylvania, and our hopes that the two sections may co-operate in some form of joint organization to promote matters of importance to chemistry in the State as a whole.

This resolution was presented to a joint meeting with the Hampton Roads Chemists Club at Williamsburg. It was moved by W. F. Rudd and seconded by W. J. Nissley that the resolution be
adopted. Motion passed unanimously. So a new Section of the American Chemical Society was born.

Chemical Education by Radio, two series of radio programs furthering chemical education, were given during this year. The first was broadcast from WRVA (Richmond) each Friday evening on scientific current events, by Dr. S. S. Negus. The second series was broadcast by WDBJ (Roanoke) and was sponsored by V. P. I. These series were promoted by R. F. McCracken, Chairman of the Committee on Chemical Education By Radio.

At the March meeting, which was held in Phi Beta Kappa Hall, at William and Mary, we had the pleasure of having Dr. Harrison E. Howe, Editor of Industrial and Engineering Chemistry. His subject was "Chemistry in the New Competition." This very impressive remark is quoted from Dr. Howe's address:

The Moral to be drawn from the experience of industry in modern competition is that with the faithful application of science to industry, competition can not only be met but offered. Without an alliance with science in these highly competitive days, no industry can be considered secure.

After-dinner speakers at the dinner at seven o'clock included Dr. Chandler, President of William and Mary and Mr. Ben A. Ruffin, well-known business man and lecturer of Richmond.

In April the Section met with the Academy of Science at Monticello Hotel, Norfolk. Sixteen papers were presented, and at the Saturday meeting Dr. E. R. Weidlem of the Mellon Institute addressed the Section on "The Role of Chemistry in Times of Business Depression."

One of the features of the meeting was an inspection of the Laboratory of the Bureau of Shellfish Sanitation on board the yacht "Pasteur." The inspection also included a trip through the waters of that vicinity under the direction of Mr. Roscoe Berry, who had been in charge of this work since he and the work had been transferred from the Department of Agriculture.

The May meeting of 1931 was held at V. P. I., being the last meeting the Virginia Section held in the Southwest territory. Mr. A. C. Fieldner, U. S. Bureau of Mines, spoke on "Coal Research."

In June we journeyed to the Chesterfield Country Club. Golf, dancing, boating, and swimming were indulged in by those present.

Mr. L. W. Himmler, who was Membership Chairman this year, seemed to be quite optimistic about his job. He stated in the beginning that the roster of the American Chemical Society listed over 18,300 members, a gain of over 500, and that "The Virginia Section is growing also." He stated that a number of full membership applications had been submitted, fourteen Associates had been elected, and a dozen student membership applications had been received from the University of Virginia.
Bill Nissley is one of Mr. McConnell's right-hand men at the Tobacco By-Products. He is a native of Richmond. It seems that he was a star in baseball and football while at John Marshall. Then he went to Virginia Tech., but the Navy proved more attractive. Bill served the Section as business manager, secretary, treasurer and vice-chairman.

Chairman Nissley's first meeting was held at the University of Richmond, with Dr. Edward Mack as the speaker. Dr. Mack at that time was professor of physical chemistry at Ohio State University. He spoke on "The Size and Shape of Molecules." Dr. Mack, as all probably know, is a native of Richmond and is now [1938] at the University of North Carolina.

At this meeting the following motion was presented and carried:

Resolved, That a coordinating committee be formed with representatives of the various chemical organizations in the State to coordinate activities in chemical matters pertaining to the State as a whole.

Specifically, the following suggestions were made: To cooperate with State and Government agencies and Chambers of Commerce, in industrial development.

A committee to carry out this plan was appointed as follows: William Clift, for one year, S. S. Negus, for two years, and Edwin Cox, for three years.

Several new features were inaugurated in The Bulletin this year. The first was a series of descriptive articles on Industrial Chemistry under the title of "Virginia Chemical Industries." This series ran from October to January and included the following, in order: The Virginia Smelting Company, West Norfolk; the Albemarle Paper Company, Richmond; the Mathieson Alkali Works, Saltville, and the Industrial Rayon Corporation of Virginia. From February to May was published a series on Virginia educational institutions, which included the University of Virginia, William and Mary, Virginia Polytechnic Institute and Virginia Military Institute, which are State supported.

The third feature was a series of "Virginia Contemporary Chemists," which began in October, 1931, and carried through to June, 1932. Mr. Robert F. McCracken was responsible for this series.

The first of this series was Dr. Francis P. Dunnington, who graduated from the University of Virginia in 1871, and had been teaching chemistry at the University since that time. The next was Dr. Egbert W. Magruder. Mr. McCracken states that only two memberships in the Virginia Section of the American Chemical Society antedate that of Dr. Magruder. They are those of Dr. James Lewis Howe, Washington and Lee, and Dr. F. P. Dunnington, University of Virginia. The next issue contained, in order, the following: Dr. Garnett F. Ryland, University of Richmond; Dr. James Lewis Howe, Washington and Lee; Dr. Robert M. Bird, University of Virginia; Col. Hunter Pendleton, Virginia Military Institute; Mr. Robert B. Arnold; Dr. Hall Canter, Randolph-Macon, Ashland; and Miss Harriet H. Fillinger, Hollins College. Miss Fillinger has been referred to as the Dean of Women Chemists in Virginia, and has been professor of chemistry and head of the department at Hollins since 1921.

The December 1931 meeting was addressed by Dr. W. R. Cornthwaite, vice-chairman of the
Section, his subject being "The Origin of Petroleum."

At the January meeting the question of attendance at the monthly meetings of the colored people interested in chemistry was brought before the Section. Dr. Crockett was appointed a committee of one to handle the matter. He sent an invitation to such colored people who might be interested.

Dean Wortley F. Rudd offered the following resolution at the May 1933 meeting:

Resolved, That the Virginia Section of the American Chemical Society offer its services to the State Board of Education in connection with the proposed conference on the general subject of the teaching of chemistry in the high schools of Virginia. Further, that this action of the Virginia Section be forwarded to the Blue Ridge Section with the suggestion that similar action might well be considered by them.

We had the pleasure of having as our speaker at this meeting Dr. Christian V. Holland, who was chemical engineer for the Virginia-Carolina Chemical Company, his subject being "Sulfuric Acid." The Section was very hospitably entertained at the University of Richmond for this meeting. Dr. Holland was one of those "Home State Boys Who Made Good." He was born in Virginia, graduated at the University of Virginia, but to our regret we couldn't hold him in Virginia. He left us to go with Merck & Co., Rahway, N. J.

The June meeting was the beginning of many enjoyable meetings, held at the Country Club of Virginia, as a fitting climax to the more or less enjoyable scientific meetings held during the year. The Bulletin announced that Dr. I. C. Prosperity would be tendered a dinner at 7 o'clock. The minutes of the meeting do not state whether the guest of honor had arrived or not.

Braxton Valentine, as a member of the Board of the Country Club, managed a special green fee of $1.00, which entitled you to play all day if desired. For the members turning in the highest score at the dinner, autographed reprints of a recent study were awarded, entitled "The Probable Melting Point of 2, 3, 11, 12, tetramethoxy-8-methylidbenzotetrahydropyrrocolin-ium methosulfate."

The announcement further states that "since at this date there seems to be no way of preventing it, the annual business meeting will be held soon after the dinner, as at least two members of the Section can be isolated in a reasonable state of purity."

1932-1933
Wm. R. Cornthwaite, Chairman

Dr. Cornthwaite came to the Virginia Section as associate professor of chemistry at the University of Richmond in September, 1927.

Dr. Cornthwaite is another of those outstanding chemists from outside of Virginia who cast his lot with us for a while. He received his doctorate from Ohio State University in 1927. In September of that year he came to the University of Richmond as associate professor of Chemistry.

Records show 182 American Chemical Society members at the beginning of this year.

The first meeting of the new regime was held at the University of Richmond in honor of the new chairman, a member of the faculty of the University. Dr. Perry E. Howard, chemical engineer, Division Fertilizer and Fixed Nitrogen, Investigations of the U. S. Bureau of Soils, spoke on "The
Story of Nitrogen Fixation."
As this was University of Richmond night, *The Bulletin* carried an article on "Chemistry at the University of Richmond."

In the January 1935 *Bulletin* appeared an article by Dr. James Lewis Howe, on the "Development of Chemists at Washington and Lee."

During this period the dinners before the meetings were held at the Westmoreland Club, which was the beginning of many delightful gatherings. They ended because of the demolition of the club.

March 25th saw another of those happy occasions which we have experienced for many years, in meeting our friends from Norfolk on neutral ground.

Dr. Duncan MacRae, Chief Chemist, Edgewood Arsenal, spoke on the interesting subject "Some Popular Misconceptions of Chemical Warfare."

One of the misconceptions as pointed out by the speaker is that chemical warfare is less humane. Quoting from Dr. MacRae, "According to statistics collected from World War records on the total and permanent disabilities resulting from injury by gassing and all other causes, it is proved that there is twelve times the chance of recovery from gassing."

Mr. James W. Roberts, President of the Hampton Roads Chemists Club, presided as toastmaster at the dinner, which was served in the College refectory. He then introduced Dr. R. G. Robb, who welcomed the gathering to William and Mary. Then, according to the account in *The Bulletin*, Mr. J. H. Parkins "introduced in a most flourishing manner" the speaker of the evening, Mr. Winden Harris of *The Virginian Pilot*, who delighted his listeners with a very humorous talk.

We were all delighted to see in the April 1933 *Bulletin* a much delayed portrayal of "Virginia Contemporary Chemists." This peppy looking young contemporary was none other than "The Dean." It seems that Wortley Fuller Rudd was a charter member and one of the organizers of the Virginia Chemists Club, and long time councillor to the Virginia Section. According to the article, Mrs. Rudd shares with him his interest in the Section, but frowns upon his new avocations of golf and smoking. The spring meeting of the American Chemical Society was held in Washington in 1933. The meeting being so close to Richmond, quite a few chemists were up from Richmond, some of whom were quartered adjacent to the Convention Hotel, I have been told. J. W. Watson, F. H. Fish and H. B. Riffenburg, with a party of 25 students from V. P. I. attended this meeting.

The Virginia and the Virginia Blue Ridge Sections, cooperating as the Section of Chemistry, met with the Virginia Academy of Science at the State Teachers College, Fredericksburg, Virginia, May 5th and 6th.

The June business meeting was held at the Hermitage Country Club. It seems there was a golf tournament in the afternoon. According to the announcement, "A startling innovation in prizes will consist of the rapt attention of the losers to the minutest details of the scores of the elect (ear muffs furnished free)." At the Executive Committee meeting held on September 1, 1933, the following resolution was approved for submission to the Virginia Blue Ridge Section as a matter of information for cooperation:

WHEREAS it seems advisable to the Virginia Section and Virginia Blue Ridge Section, American Chemical Society, that they no longer, as such be the Chemistry Section of the Virginia Academy of Science, but that the Academy be free to organize a section of its own; therefore be it
RESOLVED, That if the Blue Ridge Section concurs in this action of the Virginia Section, the Academy be informed that the two sections will no longer act in that capacity.

The two sections approved this idea and since that time there has been a chemistry section of the Academy.

1933-1934
Dr. Lauren B. Hitchcock, Chairman

Lauren Hitchcock is a Yankee but we didn't hold that against him. Neither did we let the fact that he was born in Paris, France mar our friendship. He was educated in the schools of Boston. M.I.T. conferred upon him the degrees of Bachelor, Master and Doctor of Science. He was in charge of the Chemical Engineering Department at the University of Virginia.

Dr. Hitchcock in his first message to the Section expressed the keynote of his administration when he stated "Probably but few readers realize that the Virginia Section is committed in its constitution to one and only one object. Article II. The object of the section shall be the advancement of Chemistry."

During Lauren Hitchcock's sojourn with us, dating back to 1928, he promoted that objective. We were extremely sorry that he saw fit to resign from his post as Professor of Chemical Engineering at the University of Virginia in 1935 to go into industry, affiliated with Hooker Chemical Company, located at Niagara Falls.

The first meeting of the new administration was held at the Richmond Academy of Medicine with Dr. Lafayett B. Mendel (now deceased) as the speaker, his subject being "The Challenge of Nutrition to the Chemist."

Vice-Chairman Braxton Valentine introduced Dr. Carrington Williams, President of the Richmond Academy of Medicine, who in turn presented Dr. Mendel.

Mention was made in the October Bulletin of the fact that Dr. F. B. Carpenter was present at the Chicago dinner arranged for those chemists who had attended the Chicago World Trade Fair in 1893, just 40 years previous to that date.

Dr. Carpenter, R. O. Powell and W. Catesby Jones presented papers at the meeting, meaning the 1933 Chicago World meeting, not the one held in 1893.

The November meeting was held at the University of Virginia. It was in the nature of a homecoming for the speaker, Dr. Robert N. Pease, who was formerly a member of the Chemistry staff at the University. It was the pleasure of the writer to have known him previously, as we were both stationed at the American University Experiment station at Washington during the War. Dr. Pease's subject was "The Chemistry of the Simple Hydrocarbon." Sixty-five members were present at the dinner in honor of Dr. Pease, which was held at the Dolly Madison Inn.

According to "L. W. H.", who reported the meeting, Chairman Hitchcock presided, and he wasn't satisfied with his own welcome to "the wandering alchemist to the city," so he called on various members from the University to welcome them in the Austrian, Chinese, German and French tongues.

Thomas A. Balthis was Membership Chairman this year and part of his message in the November Bulletin entitled "Do Your Part" bears repeating. He said:
You owe something as a chemist to the one organization in Virginia devoted primarily to the advancement of your profession. Show your appreciation of what the American Chemical Society means to you by sincerely trying to get others to join your Society. GET A MEMBER.

In the same Bulletin appeared a description of "Simple and Inexpensive Photo-Electric Colorimeter" by Boyd L. Samuel of the Division of Chemistry, Department of Agriculture of Virginia. The instrument was designed and constructed by Mr. Samuel and Mr. H. H. Shockey, primarily for the determination of lead in spray residue on apples.

According to Mr. L. W. Himmler, the Worthy Secretary of the Section, in the minutes of the 151st meeting, there was considerable discussion about the proposed State Liquor Control Bill. It was moved and seconded "That a fact finding Committee on Alcohol be appointed to study the proposed State Liquor Law." Dr. Garnett Ryland, L. W. Himmler and W. Catesby Jones were appointed. Efforts to find the report of this Committee have been unavailing, so we are wondering if the report has been consolidated with that of Dr. Haag in his book which was discussed at some length at the 1938 meeting of the State Legislature.

Dr. Lyndon F. Small, Research Associate in Organic Chemistry, University of Virginia, addressed the March meeting on the subject "Chemical Studies on the Morphine Addiction Problem." This was the annual joint meeting with our Norfolk friends and was held at William and Mary.

The May meeting was one of special interest because we had as our guest the President of the American Chemical Society as he was celebrating his fiftieth anniversary of graduation from the University of Virginia. His subject, being "A Half Century in Chemistry," was of particular interest to Virginia chemists. Dr. Charles L. Reese graduated at the University of Virginia in 1884 and had been associated with DuPont Company for a quarter century.

At this meeting a very momentous movement was started. It is interesting to look back on that time just four years ago and contemplate on what has transpired since Dean Rudd offered a motion on May 11, 1934. It has probably caused some headaches, but we who are most interested hope the result will justify our efforts. Quoting from the minutes:

Following favorable action on a motion by Dean F. W. Rudd, the Chairman will appoint a Committee to study the feasibility of inviting the American Association for the Advancement of Science to hold an annual meeting in Richmond. The Committee consisting of Dean Rudd, Chairman, and Messrs. Bird, Cornthwaite, Updike and Himmler met on October 2, 1934 to discuss the data collected by the Chairman. By special invitation the following were present to "give freely of their experience:" Dr. Sanger, President of the Medical College of Virginia; Mr. Munt, Richmond Chamber of Commerce and Messrs. Crockett, Forbes, McConnell and Jones. After thorough discussion, the following resolution was made by Mr. McConnell and seconded by Mr. Jones, and was favorably passed:

That the Virginia Section should not consider extending an invitation to the American Chemical Society to hold its 1937 Spring meeting in Virginia but should extend its offer of co-operation to the North Carolina Section which already has
extended an invitation for the meeting to be held at Chapel Hill at that time.

At this time a discussion in which all present participated led to the following resolution introduced by Mr. Bird and seconded by Mr. Updike, being unanimously adopted by all those present; the Chairman having invited all to vote:

RESOLVED, that this Committee recommend to the Virginia Section, American Chemical Society, that it offer to entertain the American Association for the Advancement of Science at its first open Christmas meeting.

This report was made at the October meeting but was tabled until the December meeting by motion of Mr. Cox. At the meeting, on recommendation of Dean Rudd, it was decided to hold in abeyance the extending of the invitation until further information was available.

The committee composed of Mr. Rudd, Chairman, Messrs. Himmler, McConnell, Bird, Updike and Jones met at Mr. Rudd's home March 12th. After some discussion it was agreed that the Committee would recommend to the Section that the A. A. A. S. be invited to meet in Richmond. It was thought advisable, however, to discuss the matter with the Executive Committee. Consequently, a joint meeting was held on March 25th. Dr. Forbes moved that the joint committee recommend to the Section that the Association be invited to meet in Richmond. The motion was seconded by Mr. Jones and was carried unanimously.

Dean Rudd announced at the April meeting that the invitation had been extended to the A. A. A. S. to meet in Richmond at their next open meeting date.

1934-1935
Braxton Valentine, Chairman

Braxton Valentine was born and raised in Richmond. He received his B. S. degree in Chemistry at the University of Virginia in 1920, and is chemical director of the Valentine's Meat Juice Company. He has taken a lively interest in the Section and has been entrusted with duties of various offices, such as Treasurer, Secretary and Vice-Chairman.

Braxton Valentine's first speaker was Dr. H. C. Sherman, Professor of Chemistry, Columbia University. Those who know Dr. Sherman may infer that he paid his respects to vitamins, his subject being "Vitamins From the Viewpoint of Today."

According to the October 1934 Bulletin, quite a number of Virginia chemists attended the Cleveland meeting of the American Chemical Society, and several presented papers, as follows: Dr. L. B. Hitchcock, University of Virginia; F. H. Fish, Virginia Polytechnic Institute; and W. Catesby Jones, Rodney C. Berry and W. J. Franklin, jointly, Division of Chemistry, Department of Agriculture of Virginia.

The Editor confesses to his sorrow that no stenographic reports are available of the nominating speeches at the previous June meeting, but it seems that they were so persuasive that even the nominees were heard voting for the ticket. He also expresses regret that the whole Section could not enjoy the induction by Crockett of that very select group--Cox, Forbes, McConnell, Robb, Rudd, and Mrs. W. Catesby Jones into the grand new organization, E.O.F.

After this bit of fun, especially presenting Mrs. Jones with a rolling pin, a very serious drama entitled "Our Flag, Can It Be?" was staged by prominent chemists of a well-known industrial concern.
Notice was given of the election of W. Catesby Jones to the Presidency of the Central Atlantic States Dairy, Food and Drug Officials, also of the re-election of Dr. E. W. Magruder as Chairman of the Fertilizer Section of the American Chemical Society.

January 1935 was quite a big month for the Virginia section, in that we had the pleasure of having the President of the American Chemical Society and Dr. Harold C. Urey of heavy water fame visit us the same month. Dr. Urey spoke at the Richmond Academy of Medicine January 11th and Dr. Roger Adams at the Medical College of Virginia on the 21st.

In the May 1935 Bulletin was published an article by N. Beverly Tucker, giving an account of Col. Hunter Pendleton's forty-five years at Virginia Military Institute at the time of his retirement in June.

The Academy of Science met at the University of Richmond this year with John H. Yoe as Chairman and Robert E. Hussey, Secretary of the Chemistry Section. On Saturday was held a symposium on Chemical Industry in Virginia. The following were the speakers: R. E. Hussey, Wm. Clift, Braxton Valentine, C. W. Newman, Lauren B. Hitchcock and W. Catesby Jones.

The June Bulletin announced the selection of Dr. Francis P. Dunnington as Herty Medalist for 1935. This was a source of gratification and pride to a host of pupils and many friends in Virginia, who had known him as one always interested in the advancement of Chemistry.

1935-1936
Thomas A. Balthis, Chairman

Thomas A. Balthis was born in Charlottesville, and attended the University of Virginia, where he received an M.S. degree in 1916. He is in charge of the Food Laboratory in the Division of Chemistry, Department of Agriculture. During a long period of faithful association with the Section, he has served with distinction as Assistant Editor, Editor of The Bulletin, Chairman of Membership Committee and Vice-Chairman.

Tommy Balthis had his first meeting at the University of Richmond, and the speaker was Dr. Arthur W. Dox of Parke, Davis and Company. Dr. Dox spoke on "History and Development of Synthetic Sleep-Producing Drugs."

The November meeting was in the nature of the annual meeting with our friends at the University of Virginia. Dr. Walter H. Hartung was the speaker, and his subject "Chemical Constitution and Physiological Activity." About fifty members and guests, chiefly from Richmond, Charlottesville and Waynesboro gathered at the Farmington Country Club to renew friendships and enjoy the dinner honoring Dr. Hartung. Among the most delectable items on the menu was a series of dance numbers by misses of assorted ages, topped by the vocal performance of little Miss Yoe.

By motion of Wm. Clift at the January meeting, the Section was instructed to convey to Dr. Hitchcock the sincere regrets of the Section at his departure from Virginia, and to thank him for the many services which he rendered this Section and State while a resident of the Old Dominion.

Dr. Edward Mack, Jr., a native Richmonder and now at the University of North Carolina, was the January speaker, discussing a proposed mechanism for the elastic stretching of rubber.

The very last two lines of Secretary Forbes' minutes for the year were destined to be forerunner of a very interesting and we hope helpful event in the life of our section. "It was decided to invite the Organic Symposium to Richmond for the meeting in 1937."

Dr. William R. Cornthwaite was responsible for conceiving the idea of this invitation and
arranged the preliminary details with Dr. R. L. Shriner, Secretary of the Symposium. It was a
distress to us all that Dr. Cornthwaite was unable to remain in Richmond to bring his efforts to a
successful finish. Dr. Cornthwaite saw fit to resign from the University of Richmond during the
Summer of 1936, and accept a position at DuPont at Niagara Falls. I understand the Hitchcocks
and Cornthwaites are now near neighbors.

W. Catesby Jones announced at an Executive meeting in September that the invitation to
meet in Richmond in 1937 had been accepted. Dr. Yoe, the newly elected Chairman, appointed Mr.
Jones Chairman of a Committee to arrange for the meeting. Mr. Jones appointed Dr. Sidney S.
Negus and Dr. Lyndon F. Small as his fellow committee men.

1936-1937
Dr. John H. Yoe, Chairman

The Section went back to the University of Virginia again this year and elected another who
was not a native of Virginia, having been born in Alabama. W. F. R. states in his biography: "Dr.
Yoe has been an indefatigable worker for the development of the Virginia Section and he came into
the chairmanship with a well-rounded experience which we are sure will result in a good year for
chemistry in Virginia."

Dr. Yoe studied at Vanderbilt and the University of Chicago, and obtained his doctor’s degree
from Princeton.

At the October 1936 meeting, Dr. R. M. Cone reported the action of the Council in regard to
local section boundaries. It was moved and passed that the Virginia Section contract its territory to
include only those counties and cities in Virginia, some part of which lies within seventy-five miles of
Richmond. The Section was asked to notify members residing beyond these limits that by
requesting the Virginia Section, and by attending as many as two meetings a year, they could
remain in the Section.

The Secretary was instructed to write to the North Carolina Section that the Virginia Section
would be glad to assist them in any way with their arrangements for the meeting of the American
Chemical Society at Chapel Hill.

Mr. L. W. Himmler was elected Secretary to fill the vacancy caused by the resignation of Dr.
Cone, who had accepted a position with the Solvay Process at Syracuse, N. Y.

The November 1936 meeting was held in Charlottesville. During the business meeting an
informal discussion was started due to the action of the Section in accepting the regulation relating
to limiting the territory to counties within seventy-five miles of Richmond. Dr. Bohnson and Mr.
Berne-Allen, of Waynesboro, and Col. Sutherland, of Staunton, stated that there were over seventy-
five prospective members of the American Chemical Society in Augusta County and
vicinity who were now Section "orphans" but who desired that the Virginia Section consider the
possibility of organizing them and supplying them with speakers. They stated that if this could not
be done they would consider possibilities of organizing another Section. After considerable
discussion, resolution was passed requesting the Chairman to appoint a committee to give this
matter serious consideration.

A special Committee on Membership and Meetings was appointed, consisting of Dean Rudd,
chairman; H. K. McConnell and Dr. Bohnson. This committee invited Dr. Yoe, Dr. Crockett, Mr. Clift
and Mr. Himmler to meet with them on December 11th at the Medical College of Virginia. The committee made the following recommendation to the Virginia Section and to the American Chemical Society members living in the Waynesboro-Staunton territory:

1. That the meetings of the Virginia Section be increased to twelve per year.
2. That four of these meetings be held in the Charlottesville, Waynesboro and Staunton territory.
3. That the Virginia Section requests that those American Chemical Society members in the territory near Waynesboro and Staunton now outside the Virginia Section who so desire should signify their intention of joining that Section through a member chosen for that purpose.
4. That if a satisfactory arrangement is consummated, all future applications for American Chemical Society membership from this territory should be submitted through the proper Virginia Section officers.
5. That a Section official be appointed in this area.
6. That a representative from this territory be appointed to the staff of The Bulletin of the Virginia Section.

The report was accepted with the recommendation that the necessary action be taken.

The next reference to this matter was during the February 1937 meeting, when a motion was made that the Chair appoint a committee to investigate the possibility of the Virginia Section recovering the two counties of Augusta and Rockingham as part of the territory. Previously it had been reported that there were thirty members of the American Chemical Society in these counties, with further increase promised.

Chairman Yoe made the following appointments: L. W. Himmler, chairman; Dr. Garnett Ryland and Dr. I. A. Updike. The committee held a meeting at the Farmington Country Club on February 26th. Dr. Charles L. Parsons, Secretary of the American Chemical Society, was present and explained why the proposed changes in Section territories were requested. W. Catesby Jones, Councilor for the Virginia Section, and Dr. W. L. Bohnson, A. Berne-Allen and G. S. Harpe, representing the Waynesboro area, were invited to express their views. It developed that the Virginia Section and the Lexington, Kentucky Section were the only two Sections which had followed the recommendations of the Council to delimit their territory.

Another meeting was held at Ashland on March 5th. The following report was drawn up, it being the considered opinion that it would be to the advantage of the Virginia Section to take immediate action:

The Virginia Section, realizing that it acted hastily in giving up the counties over seventy-five miles from Richmond without consulting the resident American Chemical Society members affected, and without waiting for ratification by the Board of Directors of the suggestion of the Council that Sections voluntarily delimiting their territory be given an increased annual allotment, hereby rescinds its action of October 2, 1936, and reclaims such territory.

Hoping that the American Chemical Society members affected will be served
better by other adjacent local Sections, the Virginia Section hereby relinquishes all claims to the following counties: Halifax, Pittsylvania, Henry, Patrick, Carroll, Grayson, Wythe, Smith, Washington, Scott, Lee, Wise, Dickenson, Buchanan, Russell, Tazewell, Bland, Giles, Loudoun, Fairfax and Arlington. The Virginia Section hopes that the several sections contiguous to these counties will make claim to them.

The Virginia Section, under its present plan of considering Richmond, Norfolk, and Charlottesville as its focal points and of holding meetings at various locations during each year, retains the balance of the State of Virginia for its own territory. This territory includes the reclaimed counties of Bath, Highland, Augusta, Rockingham, Shenandoah, Frederick, Page, Rappahannock, Warren, Clarke, Princess Anne, Northampton and Accomac.

The Committee recommends that copies of this action be sent to Dr. Charles L. Parsons, Secretary of the American Chemical Society, and to Virginia Section Councilors, M. F. Fogler and W. Catesby Jones.

At the Petersburg meeting held at the Country Club on May 4th, Councilor Jones reported that the Council which met at Chapel Hill had approved the request of the Virginia Section in asking the return of the counties mentioned above to the Section.

The January meeting was one that we were quite proud of. It was entirely home talent, and demonstrated conclusively that we have talent. The meeting was in the nature of a symposium on Tobacco. The program was as follows:

"By-Products of Tobacco," by Wm. Ralston, Tobacco By-Products and Chemical Corporation.
"Physiological Aspects of Tobacco Smoke," by Dr. J. H. Weatherly, Medical College of Virginia.

The Section went on record as wishing to co-operate fully with interests within the State having solution of stream pollution problems. The idea was initiated by W. F. Rudd, by resolution.

The first meeting to be held in Waynesboro was addressed by Dr. Alfred Burger, of the University, on January 22nd. Dr. Burger spoke on "Micromolecular Chemistry."

At the business meeting on February 12, 1937, following discussion on the subject, started by Dean Rudd, a resolution was passed authorizing the Chairman to appoint a committee to write a history of the Virginia Section. Dr. Yoe appointed W. F. Rudd, chairman; Dr. Garnett Ryland, Dr. E. W. Magruder, Edwin Cox, Dr. J. C. Forbes, F. F. Pitts and W. Catesby Jones.

It was announced at the meeting by Edwin Cox that arrangements had been made of the A. T. O. Fraternity House to be reserved for use of members of the Virginia Section who would attend the Chapel Hill meeting of the American Chemical Society.

The March meeting was held at the Broad Street Methodist Community House. Dr. J. H.
Mathews, of University of Wisconsin, held one of the largest audiences ever to attend a Virginia Section lecture in an overtime session while he discussed "Scientific Methods of Crime Detection." Quite a number of police officials from various parts of the State attended the meeting.

We were all delighted to note in the March 1937 Bulletin that Dr. W. G. Crockett had been elected President of the American Association of Colleges of Pharmacy. Quoting from The Bulletin:

The American Association of Colleges of Pharmacy is to be congratulated. As members of the Virginia Section of the American Chemical Society, we are proud of the honor given to one of our members in his own particular field. Yet knowing him as we do, we again say that in honoring Dr. W. G. Crockett, of the Medical College of Virginia, by electing him to the Presidency of their organization, the American Association of Colleges of Pharmacy has honored itself.

The Charles Herty Award Committee, consisting of Dr. Sidney S. Negus, chairman, and Messrs. H. K. McConnell and William Clift, recommended Dr. James Lewis Howe of Washington and Lee, for the honor.

We had the unique and delightful experience of holding the April meeting in the chapel of Randolph-Macon College at Ashland. We also had the interesting experience of having a woman chemist, who is head of the chemical department of a large paper concern, address us. Miss Helen U. Kiely, chief chemist of the American Writing Paper Company, Holyoke, Mass., spoke on "Know Paper Better."

The Section and the Medical College of Virginia has been honored again. Mr. Wortley F. Rudd, Dean of Pharmacy at the Medical College of Virginia, was selected to head a committee to help reorganize the school of Pharmacy of Columbia University.

In honor of our hosts for the April meeting an article appeared in The Bulletin on "Chemistry at Randolph-Macon College," by Dr. I. A. Updike, Vice-Chairman of the Section.

The May meeting was held at the Petersburg Country Club, with Dr. Nathan L. Drake, University of Maryland, speaking on "Absorption as a Tool in Organic Chemistry."

A resolution was introduced by W. Catesby Jones and seconded by Mr. L. C. Bird, sponsoring the Farm Chemurgic Program in advancing the Industrial Use of Farm Products through Applied Science.

The May issue of The Bulletin contained a very interesting article entitled "Chapel Hill Discoveries and Observations," by Squealer Squinchell.

According to Mr. Squinchell, this meeting was not just another convention, it was "a masterpiece in the almost extinct art of what is jokingly called "throwing a convention." It seems that one prominent Virginia chemist was actually caught listening to a paper. It seems also the A. T. O. was the scene of some confusion because no one seemed to be sure about the "O." Someone remarked that it looked like a horseshoe to him, while a research chemist explained that it was flat on the bottom to keep it from turning over when the house went 'round and 'round.

This meeting was unusual in at least one respect. A scientific meeting was turned into a track meet, and the Section added to its laurels during the running of the low hurdle, when its lone entrant ran "around" the last hurdle, after leading the field, amid the thunderous applause of the multitude.
The versatility of the Section is forever being demonstrated. However, some very tough competition was encountered during the music festival held at the A. T. O. House after the Wednesday night dance, when the Section competed with the finest voices of Yale, Harvard and Princeton. It is believed that our score would have been higher except for “the weird cacophony of rough and raucous melody, ‘Carry Me Back to Ole Virginny,’” which was apparently due to the fact that no one wanted to go back. The festival was handsomely concluded, however, with a serenade to President Graham, "The End of a Perfect Day."

Dr. Garland Ryland, Committee of One, submitted the name of Dr. Arthur F. Benton, University of Virginia, as candidate for the New York Section’s William H. Nichols Medal, which nomination was accepted.

The Necrology Committee proposed a resolution of sorrow at the death of Dr. Samuel H. Shieb. Dr. Shieb was a member of Froehling & Robertson and had been a member of the American Chemical Society for twenty-eight years.

Chairman W. F. Rudd of the History Committee reported real progress by his group and stated that they expected to submit their report during the spring of 1938.

1937-1938
Dr. Ira A. Updike, Chairman

Dr. Updike, as we well know, is professor of chemistry at Randolph-Macon, Ashland. Although not residing in Richmond, Dr. Updike has been a faithful attendant at Section meetings and a hard worker in its activities.

He received his B. S. degree at Randolph-Macon in 1919 and his Ph. D. at Columbia in 1929.

He has been Editor, Treasurer, and Vice-Chairman of the Section, and also served as an assistant Secretary-Treasurer of the Virginia Academy of Science. Dr. Updike married Dr. Winifred I. Wood, of Wisconsin, who had served as Assistant Professor of Chemistry at New Jersey College for Women.

Dr. John C. Forbes was elected Executive Vice-Chairman. Dr. Forbes joined the Virginia Section in 1927. He has been a great asset to the Section, having served as Secretary, Assistant Editor and in many other positions of trust and responsibility. He is Associate Bio-Chemist at the Medical College of Virginia. The Canadian was awarded B. A. and M. A. degrees at the University of Saskatchewan and Ph. D. at McGill. He served overseas in the Princess Pat Regiment during the World War. We wish him great success as Chairman for 1938-39.

Dr. Ferdinand Schultz was elected Vice-Chairman and Dr. V. L. Bohnson, Councilor, representing the group at Waynesboro.

Mr. Rodney C. Berry was elected Secretary for the year 1937-38 and is serving well in that job at the present time. Mr. Berry is chemist in charge of the fertilizer laboratory of the Division of Chemistry, Department of Agriculture of Virginia. He has been interested in the work of the Section for some time and has served in other offices and as chairman of important committees.

The October 1937 Bulletin reported names of two hundred and two American Chemical Society members and eighty-four associate members.

A meeting of the Executive Committee was held at Dr. Updike’s home in Ashland in
September. Mr. L. C. Bird, General Chairman for the Advancement of Science meeting to be held in Richmond during December, 1938, and Dr. Sidney S. Negus, chairman of publicity, reported on the meeting. They stated extensive publicity for Virginia is being planned and sufficient money has been subscribed to enable the committee to employ a full-time director who would assume his duties October 1st.

Reporting for the Committee on Organic Symposium, W. Catesby Jones stated that the meeting would be held at the John Marshall Hotel, December 27, 28, and 29, 1937, and that there would be no cost to the Section.

The November meeting was in the nature of a continuation of the Farm Chemurgic movement, which will be mentioned more specifically later.

Dr. H. E. Barnhard, Director of Research, Farm Chemurgic Council, discussed "Chemurgic Developments in the South." Dr. Barnhard emphasized the advance of chemical industry in Virginia, and pointed out the great need for a Virginia State Chemurgic Council and offered the assistance of the National Council in its formation.

Due to the demolition of the Westmoreland Club, it became necessary to find another suitable place to hold the monthly dinners. It was decided to meet at the Mosque.

Dr. Arthur F. Benton, Chairman Chemical Faculty, University of Virginia, was the speaker at the December meeting, his subject being "Catalytic Mechanisms." Dr. Benton's researches on reaction kinetics, catalysis, absorption, fluid flow, and nitrogen fixation have given him a well-earned international reputation.

As stated previously, the Seventh National Organic Chemistry Symposium would be held in Richmond, December 28th, 29th and 30. The symposium proved to be a great success from many viewpoints--scientifically, socially and in attendance. Four hundred and sixty-six registered, being the greatest number in the history of the symposium.

Dr. Lyndon F. Small, of the University of Virginia, who was elected Chairman of the Organic Section at Rochester, presided, and Dr. I. A. Updike, Chairman of the Section, gave the welcoming address. Dr. James Norris responded, in the absence of Dr. Whitman, President of the American Chemical Society.

The Committee in Charge of Arrangements was as follows:

The General Committee:
- W. Catesby Jones, chairman, Division of Chemistry, Department of Agriculture
- Dr. Sidney S. Negus, Medical College of Virginia
- Dr. Lyndon F. Small, University of Virginia

Registration:
- Rodney C. Berry, Division of Chemistry, Department of Agriculture

Information:
- James W. Schofield, Tobacco By-Products Chemical Corporation

Hotel:
- L. W. Himmler, Froehling & Robertson

Meeting Room Facilities:
- A. I. Whitenfish, University of Richmond

Micro-Chemical Exhibit:
- Thomas Garber, Larus Bros. Tobacco Company

Dinner:
- Page Hudson, American Tobacco Company

Photographic:
- Foley F. Smith, Alcoholic Beverage Control Board Laboratory

One of the features of the meeting was a Christmas party given by the Section on the night of the 28th. This was an unusual feature, and the committee was told many times that this was a
working convention and would not have time for entertainment of any kind. Our Southern conscience would not allow our brother chemists from all parts of the country to come to Virginia at the Yuletide without some recognition of the season. Judging from the attendance at the party and the good time had by all, we judge that no one's feelings were hurt by the innovation.

The January 1938 meeting was held at the University of Virginia, in honor of Dr. Frank C. Whitmore, President of the American Chemical Society.

The February 1938 Bulletin gives the program of the Virginia Farm Chemurgic Conference which was held at the John Marshall Hotel, February 7th, under joint sponsorship of the Virginia Section and the State Chamber of Commerce. Mr. Edwin Cox, Chairman, Chemurgic Committee, Virginia Section of the American Chemical Society and Virginia Academy of Science, presided at the luncheon meeting.

Dr. Harry E. Barnhard addressed the gathering on "The Farm Chemurgic Movement."

Dr. Julian A. Burruss, President of the Virginia Polytechnic Institute, representing the State Chamber, presided at the afternoon session. The first address was by Mr. Carl B. Fritsche, managing director, National Farm Chemurgic Council. Twenty minutes each was given the following groups: Science, Agriculture, Industry, Transportation and Finance, represented by the following, respectively: W. Catesby Jones, Dr. Meade Ferguson, Mr. James F. Ryland, Mr. F. H. Pitman and Mr. C. J. Robey.

At the February meeting we had the pleasure of having our former chairman, Dr. William R. Cornthwaite, return and give us a very interesting talk on "Industrial Chemical from Acetylene."

Our Editor, William Ralston, is to be congratulated on the series of articles that he is running currently in The Bulletin. In the February Bulletin was an article by Professor J. B. Lucas on "Chemistry at V. P. I. Prior to 1900." March, a very interesting "Hi Doc!" by Dr. V. L. Bohnson, Waynesboro. April, "Hampton Roads", by Mr. John H. Parkins, Norfolk Testing Laboratories, and a former member of Dr. Magruder's "Happy Family" in the State Laboratory. May, report by Mr. Lloyd C. Bird of the program being made in arrangements for the December meeting of the Association for the Advancement of Science.

The April meeting was held at the Planters Club on the Nansemond River, Saturday, the 9th. Our speakers were Mr. R. C. Bardwell, Superintendent of Water Supply, C. & O. Railway and former Chemist of the Water and Sewerage Section of the American Chemical Society, and Dr. E. S. Hopkins, Director, Bureau of Water Supply, Baltimore, Md.

The May meeting, and the last one recorded in this history was held in Hopewell, Friday, May 13th.

Dr. F. C. Vilbrandt, Professor of Chemical Engineering, Virginia Polytechnic Institute, was the speaker. His subject was "Utilization of Industrial Wastes."

This was the first opportunity that the Virginia Section had of hearing Dr. Vilbrandt. He has been at Virginia Polytechnic Institute since 1935, having come to Virginia from Iowa State College. Previous to that he was Director of Chemical Engineering Research of University of North Carolina from 1922 to 1930. He received his Ph. D. degree in 1919 and degree of Chemical Engineer in 1935 at Ohio State University.

We hope that the perusal of these pages will indicate that the author was justified in making the prophecy recorded in the beginning of this discourse.

Preface

The first thirty years of the history of the Virginia Section covering the period from the formation of the Virginia Chemists Club on Jan. 25, 1907 through June 1938 has been written by Drs. E. W. Magruder, W. F. Rudd and Major W. Catesby Jones and published in serial form in The Bulletin in 1950.

Following the recommendation of Foley F. Smith, Chairman for 1947, that the next ten years of Virginia Section History be brought up to date, a committee composed of Rodney C. Berry, Robert H. Kean and Randolph N. Gladding was appointed by Chairman E. S. Harlow in October, 1948, to complete the next ten years, 1938-1948. The committee decided to divide the assignment in the following manner: Mr. Berry to write the first four years from 1938-1942 inclusive, Dr. Kean to write the next four years 1942-1946, and Randolph N. Gladding the next two years 1946-1948 and to arrange all the material and submit it to the Editor of The Bulletin for publication.

As Chairman of this committee, I wish to thank Mr. Berry and Dr. Kean for their splendid cooperation and the fine job they have done in helping to complete this assignment. We hope that we have presented the material in an interesting and profitable manner for all who follow its appearance in subsequent installments in The Bulletin.

Randolph N. Gladding, Chairman

1938-1939

The week of December 27 through the 31st of this year was one long to be remembered by the members residing in Richmond, as it marked the first time that the A.A.A.S. had ever held one of its meetings in the city. Just about every member in this area had a job to do. The General Planning Committee was composed of Lloyd C. Bird and W. Catesby Jones and thirty or more hard workers. The advisory committee of the Section was headed by Wortley F. Rudd, assisted by a committee of fifty outstanding citizens of the city and state. Dr. H. B. Haag was chairman of the Advisory Committee of the Virginia Academy of Science. Other important but smaller committees were:

Finance:  H. K. McConnell, Chairman; Public Relations:  Dr. Sidney S. Negus, Chairman; Housing:  Foley F. Smith, Chairman; Transportation, Information, Registration:  William Clift, Chairman; Meeting Places, Projection Equipment:  Rodney C. Berry, Chairman; Special Dinners:  W. R. Harlan, Chairman; Entertainment:  C. Braxton Valentine, Chairman; Distinguished Guests:  Dr. W. T. Sanger, Chairman; Cooperation of Sections A.C.S.:  Dr. W. G. Crockett, Chairman; Cooperation of Educational Institutions:  Dr. Ira A. Updike; Program::  Dr. H. H. Meyers; Commercial Exhibits:  B. K. Steadman; Public Meetings:  H. T. Moxon; Plant Tours:  H. R. Hanmer.

Credit was due to many other individuals and organizations for making this initial coming of the A.A.A.S. to Virginia successful in every way.
Complimentary messages from Sir Austin H. Clark, Dr. J. McKeen Cattell, and many other outstanding scientists were gratefully received and appreciated by those who had done a big job in a big way, for this was the largest and most important meeting of scientists ever held in the South. The impact and stimulating effect of this meeting will be felt for decades to come.

The officers of the Section for this year were:

Chairman                           John C. Forbes
Executive Vice-Chairman     Rodney C. Berry
Vice-Chairman  Allen Berne Allen, Jr.
Secretary                           Donald A. Rogers
Treasurer                           James W. Cole

The fall season opened at Waynesboro October 14 with Dr. Jesse Wakefield Beams, Professor of Physics, University of Virginia, speaking on "The Ultra Centrifuge and Some of its Applications to Physics and Chemistry."

The November 4 meeting, held at University of Richmond, was addressed by Dr. B. S. Hopkins, Professor of Chemistry, University of Illinois, who spoke on "The Growth of the Periodic Table, with Special Reference to the More Recent Additions to It."

On November 25, the Section met at the Jefferson Hotel, Richmond, to hear Dr. F. R. Moulton, Permanent Secretary of the A.A.A.S., discuss "Celestial Chemistry and Engineering."

The University of Virginia was the site of the Charlottesville meeting held December 9. Mr. Thomas H. Chilton, Head of the Technical Division, Engineering Department of the DuPont Company, spoke on "Opportunities for Research in Chemical Engineering."

The January meeting was held at Hopewell, Dr. Charles A Kraus, President of A.C.S., being the guest speaker. His subject was "Effect of the Solvent on the Properties of Electrolysis."

Dr. L. J. Desha, Professor of Chemistry, Washington and Lee University, addressed the Charlottesville Meeting, February 10 on "Organic Chemistry in Perspective."

"Some Problems of a Textile Chemist" was the subject of a delightful discussion at the March 10 meeting, held at M.C.V. Dr. Albert H. Grimshaw, Professor of Textile and Dyeing, N. C. State College, was the speaker, and he pictured the many problems confronting the textile chemist in an instructive, interesting and humorous manner.

The annual joint meeting of the Section with the Hampton Roads Chemists Club was held at Williamsburg, April 8. Dr. Paul R. Heyl, Senior Physicist, Bureau of Standards, Washington, D. C., speaking at the afternoon session, kept his audience at a high pitch of interest as he spoke on "Weighing the World." Stating the accepted weight of the earth's mass is six sextillion tons, he pointed out man's insignificance, in that if the entire world's population together with their domestic livestock were removed to the planet Mars, the change in the mass of the earth would be unnoticed. The centrifugal force of the earth in its orbit about the sun would snap a steel cable 5,000 miles in diameter. Many other interesting facts followed as Dr. Heyl skillfully related the importance of the subject to science.

Following a call meeting of the Section, Dr. Forbes announced that Dr. Lyndon F. Small had been recommended for the Herty medal.
A resolution was unanimously carried to recommend to Virginia State Chamber of Commerce that Scientific Research be represented in selection of new members of the Chamber's Board of Directors.

At the evening session and dinner, Col. W. E. Kepner, U. S. Army Air Corps, as the principal speaker, talked on "How Far Is Up" in a thrilling account of ascending 70,000 feet with two companions in a balloon which ripped a 30-foot hole at about 60,000 feet, and their subsequent parachuting with important instruments to safety. Considerable other highly interesting data completed a day of entertainment, information and another milestone in the fellowship enjoyed by the two organizations.

The Richmond meeting, held April 21, featured John H. Foulger, M.D., Director Hashell Laboratory of Industrial Toxicology, Wilmington, Del., who developed his subject "Modern Industrial Toxicology" in a most interesting way, stating that the increasing production of chemical compounds presented new problems of exposure to toxic substances.

The Waynesboro meeting of May 12 featured the address by Dr. Lyndon F. Small, Research Associate Chemist, University of Virginia, on "Narcotics and Stimulating Drugs."

On June 9 at the Hermitage Country Club, Richmond, the annual business and social meeting of the year was held. Report of the secretary indicated a total membership of 212 with a balance of $610.55 in the treasury.

A feature of the meeting was an interrogatory radio program "As America Thinks," inaugurated over WRVA, which proved unique in a day before the advent of the now familiar quiz programs.

An outstanding incident of the meeting was the picture taking of past chairmen of the Section. The picture shows eleven of the fifteen chairmen present, the other four having left before the picture was taken. Those present were: Dr. F. B. Carpenter '09, Mr. J. Bernard Robb '15, Major W. Catesby Jones '20 (deceased), Dean Wortley F. Rudd '22, Mr. H. K. McConnell '25 (deceased), Mr. William Clift '26 (deceased), Dr. Sidney S. Negus '27, Mr. Edwin Cox '29, Dr. W. G. Crockett '30 (deceased), Mr. Wm. J. Nissley '31, Mr. C. Braxton Valentine '34, Mr. Thomas A Balthis '35, Dr. John H. Yoe '36, Dr. Ira A. Updike '37, Dr. J. C. Forbes '38, and Mr. Rodney C. Berry (elect) '39.

A "check list of chemical periodicals and reference books in libraries of the State of Virginia," compiled in 1930 by Dr. W. R. Cornthwaite from the Went and Hull list, was brought up-to-date with simplified filing code by Dr. E. C. L. Miller, Librarian, M.C.V., during the year.

1939-1940

This year marked a new interest in the research of tobacco with the opening of the new Research Laboratory of The American Tobacco Company. The research facilities of the company were greatly enlarged with the completion of their new laboratory at 400 Petersburg Pike, and promised to play an ever increasing role in the tobacco industry in the state and nation. The November issue of The Bulletin contained a picture and floor plan of the building with a description of many unique features in laboratory design.
The officers of the Section for this year were:

- Chairman: Rodney C. Berry
- Executive Vice-Chairman: William Ralston
- Vice-Chairman: Roy McCracken
- Secretary: Donald A. Rogers
- Treasurer: James W. Cole

Eleven sectional meetings were held, with five in Richmond, two in Waynesboro, two in Charlottesville, and one each in Hopewell and Williamsburg.

The University of Richmond was host for the first meeting. Mr. Emerson P. Poste, Chemical Engineer, Chattanooga, Tenn., addressed the Section on "Ceramics." A display of products heightened interest in the subjects discussed, and questions and inspections followed the lecture.

On November 10, the Section met at Waynesboro to hear Dr. Arthur F. Benton, Director, School of Chemistry, University of Virginia, whose subject, "Structure of Atoms and Molecules," was enthusiastically received.

On November 24, Mr. Ernest R. Sasscer, Chief Division of Foreign Plant Quarantines, Bureau Entomology, U. S. Department of Agriculture, spoke on "Plant Quarantines" at the Medical College of Virginia.

Dr. H. B. Hass, head of Department of Chemistry, Purdue University, addressed the Charlottesville meeting December 8, on "Chlorination of Saturated Hydrocarbons." The dinner list showed a goodly number of Richmonders making the pilgrimage.

On February 23, the Section met in Cobb Chemical Laboratory, University of Virginia, to hear Dr. H. H. Stroch of the U. S. Bureau of Mines, speak on "Coal and Tar Hydrogenation."

"Corrosion" was the subject of a very informative address by Dr. Colin G. Fink, head, Division of Electrochemistry, Columbia University, at the January meeting held at Medical College of Virginia.

At the Hopewell meeting on February 2, Dr. P. H. Groggins, Senior Chemist, Bureau Agricultural Chemistry and Engineering, U. S. Dept. of Agriculture, spoke on "Recent Developments in Organic Synthesis." Braving arctic weather, the Section was well repaid for venturing forth. Out of 40,000 patents issued annually, 25% of them relate to organic synthesis.

Dr. Gustavus J. Esselen, president of the firm of consulting chemists and chemical engineers which bears his name, came down from Boston to be with the Section meeting in the Egyptian Building, Medical College of Virginia on March 1. His subject, "Ultra Slow Motion Photography and its Application to Chemical Engineering Studies," was enthusiastically received.

Again, the Egyptian Building was the Section's meeting place on April 12 to hear Mr. Harold T. Stowell, patent attorney, Washington, D. C., discuss "Patents." Fittingly the message was brought during the week the patent office was celebrating its 150th anniversary.

April 27 was the date of the annual joint meeting of the Section and the Hampton Roads Chemists Club at William and Mary College, Williamsburg. Dr. C. G. Strom, Technical Expert to Chief of Ordinance, U. S. Army, Washington, D. C., brought an interesting and informative exposition of his subject "Explosives," falling under two general classifications, low explosives, such as the black and smokeless powders, and high explosives, such as the commercial dynamites and the military explosives, TNT and the detonators. An enjoyable social hour and dinner marked this
The Virginia Section, 1927 – 1938 (cont.)

Dr. Ira Amon Updike
Chairman, 1937

Past Chairman, 1939
Left to Right: Dr. Sidney S. Negus ('27), Mr. William Clift ('26), Dr. J. C. Forbes ('38), Dr. John H. Yoe ('36), Mr. Edwin Cox ('29), Dr. F.B. Carpenter ('09), Dr. W.G. Crockett ('30), Major W. Cateby Jones ('20), Mr. J. Bernard Robb ('15), Mr. Thomas A. Balthis ('35), Dr. Ira A. Updike ('37), and Mr. Rodney C. Berry ('39)

The Virginia Section, 1938-1948

Rodney C. Berry
Chairman, 1939

William Ralston
Chairman, 1940

Hiram Rupert Hamner
Chairman, 1942
Distincted Service 1957
The Virginia Section, 1927 – 1938 (cont.)

Dr. James Webb Cole
Chairman, 1943

Dr. Robert Hill Kean
Chairman, 1944

Dr. William R. Harlan
Chairman, 1945

The Bulletin Cover, 1946

Foley F. Smith
Chairman, 1946

Clifford Smith
Chairman, 1947

Edward S. Harlow
Chairman, 1948
another milestone of good fellowship among the organizations.

The Waynesboro meeting, May 24, was addressed by Dr. F. E. Tuttle, Professor Emeritus of Chemistry of the University of Kentucky. Speaking from long years of experience, he discussed the "Then and Now in Chemistry."

The Hermitage Country Club was the scene of the Annual Social and Business meeting June 14. Dr. Eugene C. Bingham, founder of the Virginia Chemists Club and charter member of the Section, Head of Chemistry Dept., Lafayette College, spoke on the early days of the Chemists Club.

During the year, a net increase of twenty-five A.C.S. members was reported, and $400.00 of the Section's funds was invested in interest-bearing securities, bringing the total investments to $1,400.00 with a net gain of $61.80 in cash assets and securities.

Of noteworthy interest was the advent of Volume I, Number 1 of The Virginia Journal of Science, published by the Virginia Academy of Science. This publication replaced Claytonia, sponsored by the Committee on Virginia Flora of the Academy.

The Section sustained a great loss at the beginning of this year in the death of Dr. Hall Canter of Randolph-Macon College. Dr. Canter was a pioneer, along with Drs. Bingham, Magruder, Bradbury and others, in inaugurating the Virginia Chemists Club, forerunner of the Section.

1940-1941

The clouds of war were hanging heavily over our country and everyone was anxious about our chances of avoiding a repetition of World War I as the Sections embarked upon another year.

A hardworking veteran of the Section again was selected to pilot the organization for this year in the elevation of executive vice-chairman William Ralston to chairman.

The officers for this year were:

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<th>Position</th>
<th>Name</th>
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<tr>
<td>Chairman</td>
<td>William Ralston</td>
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<tr>
<td>Executive Vice-Chairman</td>
<td>Allen Berne-Allen, Jr.</td>
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<td>Vice-Chairman</td>
<td>L. W. Himmler</td>
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<td>Secretary</td>
<td>James W. Cole</td>
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<td>Treasurer</td>
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The initial fall meeting was held in Waynesboro on September 20, at which Dr. John H. Yoe, Professor of Chemistry, University of Virginia, gave an informative talk on "Photoelectric Chemical Analysis."

Dr. William G. Guy, Professor of Chemistry, William and Mary College, addressing the Section on October 11 at the University of Richmond, spoke on "Physical Properties and Molecular Structure." Presenting his complex subject in an understandable and interesting manner, Dr. Guy spoke to a packed lecture hall. The Section was represented at the Detroit meeting of the A.C.S. on September 9 by Major Jones and Drs. Guy and Negus. One important announcement concerned the complete census of all chemists and engineers in the U. S., their qualifications, etc., to be taken at the request of the Executive Office of the President of the United States.
On November 8 in the Egyptian Building, M.C.V., the Section enjoyed an interesting talk on "Some Problems of Chemotherapy" by Dr. Alfred Burger.

Journeying to University of Virginia, Charlottesville, November 29, the Section was addressed by Dr. James K. Hunt, Technical Advisor, DuPont, Wilmington, Del., his topic being "Some Recent Developments in Industrial Chemistry." In connection with his subject Dr. Hunt showed the new sound movie "A New World through Chemistry." Both lecture and picture were enjoyed by a crowd of about 250 interested Section members and visitors.

Back to M.C.V. and the Egyptian Building on December 13; Dr. Ferdinand Schulze, Chemical Research Supervisor, DuPont, Waynesboro, discussed "Color Photography." All methods depend on the fact that all colors visible to the human eye can be reproduced by combining in proper proportions light of three primary colors, red, green and blue.

Again, the Medical College's Egyptian Building housed the Section on January 10, as they listened to "Chemical Investigations Relating to Tobacco," brought by Dr. Paul M. Gross, Chairman, Department of Chemistry, Duke University. He summarized the results of several years of research work on tobacco plant diseases, particularly blue mold.

In preparation for the joint Section and Academy of Science meeting to be held in May, committees under Chairman H. B. Haag and sub-chairman Foley Smith were: Exhibits: Rodney C. Berry; Publicity: Dr. Negus; Dinner: L. E. Jarrett; Registration and Information: F. J. Wampler; Meeting Rooms, etc.: Dr. McCracken; Housing: F. L. Apperly; Finance: Major Jones; Ladies Committee: Miss Gertrude Drinker; Radio: George W. Jeffers; Section Hosts: Astronomy, Math and Physics: C. H. Wheeler; Biology: Drs. Bailey, Hughes and Smart; Chemistry: Drs. Forbes, Harlan, Miss Lipscomb and Braxton Valentine; Education: C. E. Myers; Engineering: R. B. Davenport; Geology: J. H. Elder; Medicine: Drs. Jas. Smith, Harry Bear; Psychology: Dr. Astrop; Junior Science Committee: W. R. Galvin.

Dr. John H. Yoe, University of Virginia, made an extensive tour of over twenty central, northwestern and western universities lecturing on "Some Recent Advances in Colorimetric Analysis" and "Inorganic Analysis with Organic Reagents."

"Coal as a Basic Raw Material in the Chemical Industry" was the topic of Dr. W. A. Koehler at the Hopewell meeting, February 14.

An interesting symposium on cellulose industries in Virginia featured the Section meeting at University of Virginia on March 14. Those speaking were Mr. Forest B. Evans, Asst. Supt., Hercules Powder Company, Hopewell, and chairman of the Symposium, whose topic was "Cellulose as a Raw Material." Mr. W. H. Bradshaw, Research Manager, Cordura, DuPont Company, Richmond, spoke on "Viscose Rayon." Mr. W. F. Hindry, Division Supt., Sylvania Industrial Corporation, Fredericksburg, contributed "Regenerated Cellulose Films and Coatings." The fourth speaker was Dr. F. H. Swezey, Research Manager, DuPont Company, Waynesboro, and his subject was "Cellulose Acetate."

The Section committee on selection for the Herty Medal award recommended Dr. E. Emmett Reid, Emeritus Professor of Chemistry, Johns Hopkins University, as candidate for the honor.

A well deserved honor to one of our members was the election of Dean Wortley F. Rudd as President of the newly organized Southern Association for the Advancement of Science at the meeting held at Mobile, Ala.
The annual joint meeting of the Section and the Hampton Roads Chemists Club held at William and Mary College, Williamsburg, April 12, had as guest of honor Dr. L. J. Desha, Professor of Chemistry, Washington and Lee University, who spoke on "Organic Chemistry Today." After the dinner, Mr. Vernon M. Geddy, Vice-President, Colonial Williamsburg, Inc., spoke on "The Restoration of Williamsburg."

The joint meeting of the Academy of Science and the Section, May 1-3, being the 19th meeting of the Academy and the 231st meeting of the Section, was held at Medical College of Virginia in various meeting rooms in the Baruch auditorium, Egyptian Building and McGuire Hall.

Welcomed by Dr. Sanger, Dean Rudd, President of the Academy responded, and Dr. Geldard presented the Jefferson award to Drs. Yoe and Overholser on "Application of a New Class of Organic Reagents to the Detection and Determination of Palladium." (This paper also won the Inter-Academy award of Florida, North Carolina, South Carolina and Virginia.) The Jefferson Prize was awarded to Dr. A. T. Gwathmey, University of Virginia, for his paper, "Action of Some Gases on the Surface of a Single Crystal of Copper."

The opening address was by Austin H. Clark, President of the Washington Academy of Science. Numerous papers and discussions in the Section of Chemistry, the third Symposium on Organic Analytical Reagents, the Section of Engineering, and a special symposium on Sulfonamide Drugs were highlights of the meeting interspersed with exhibits, tours of factories, sightseeing, lunches and business sessions.

The Waynesboro meeting was held Memorial Day. Dr. Lyndon F. Small, Chief of Division of Chemotherapy, National Institute of Health, U. S. Public Health Service, Washington D. C., spoke on "Chemotherapeutic Studies at the National Institute of Health." His interesting and informative discourse dealt with research on the various types of malaria, detailed discussion of the life cycle of the organisms through mosquito and victim, and curative measures, especially through quinine substitutes.

Any possible jinx incident to holding the Annual Social meeting on Friday, June 13, was dispelled by an unusually enjoyable dinner and evening of fellowship.

Reports showed a net gain of 43 in membership and a total enrollment of 286 as of June 1941; a treasurer's report showed a balance of $413.63 in bank.

The Bulletin had a satisfactory year, and showed a capital gain of $235. The nominating committee proposals were: Chairman, Dr. A. Berne-Allen, Jr.; Executive Vice Chairman, L. W. Himmler; Vice Chairman, Foley F. Smith; Secretary, E. S. Harlow; Treasurer, W. E. Trout, Jr.; Editorial Board, Drs. Harlan and Cole; Councilors, Dr. Negus, Major Jones, Dr. Yoe. These were unanimously elected.

Dr. Negus made two announcements highly pleasing to the Section. First, that Dr. Lyndon F. Small had been elected to the National Academy of Science. Also, that Dean Wortley F. Rudd had received the honorary degree of Doctor of Science from the University of Maryland.

The entire Section was saddened by the death of Dr. W. G. Crockett, a past Chairman of the Section, which occurred during the year.

December of this year marked the dedication of the new 2 1/2 million dollar Medical College Hospital of 600 beds on Founder's Day, with Governor Price and other notables participating.
This year marked the entry of our country into World War II with the attack of Japan on Pearl Harbor, December 7. The effect of wartime efforts were soon felt in the Section, as many of our members left during the year to take their places in the armed services.

The officers for the year were:

Chairman                           Allen Berne-Allen, Jr.
Executive Vice-Chairman      L. W. Himmler
Vice-Chairman                    Foley F. Smith
Secretary                            E. S. Harlow
Treasurer                           W. C. Trout, Jr.

The initial Section meeting was held at Hopewell, September 26, with Dr. John H. Yoe, University of Virginia, speaking on "Inorganic Analysis with Organic Reagents." A brief history was given of the use of reagents in the detection and determination of inorganic constituents; particularly interesting were the accounts of the determination of palladium and tungsten by organic reagents.

At the business meeting the letter of resignation of Mr. L. W. Himmler, Executive Vice Chairman, was read.

The October Bulletin contained a directory of A.C.S. active and associate members, also the Blue Ridge Section and the Hampton Roads Chemists Club.

Dr. Arthur Knudson, Prof. Biochemistry, Albany Medical College, Albany, N. Y., addressed the October 10, Waynesboro meeting. His timely subject, due to world conditions, was "Nutrition and Health." The lack of one of 40 necessary nutrients will produce a deficiency symptom. Seventeen vitamins, 13 minerals and 10 amino acids are essential, and their deficiency in processed foods must be met.

On October 31, Dr. W. R. Cornthwaite, formerly of University of Richmond faculty, and former Section Chairman, having left Richmond in 1936 to join the research staff of DuPont at Niagara Falls, N. Y., presented the topic, "Chemicals from Salt," which was interestingly handled.

The nominating committee "drafted" Mr. H. R. Hanmer to fill the vacant Executive Vice Chairman position.

The Section was doubly honored at the November 14 University of Virginia meeting by the presence of Dr. W. L. Evans, President of A.C.S., and Dr. Charles A. Parsons, Secretary A.C.S. Dr. Evans' address was on "The Chemical Behavior of Reducing Sugars in Alkaline Solutions." He stressed the importance of carbohydrates in essential foods. Illustrated with slides, he traced the chemical action of reducing sugars in alkaline solutions by studying simple carbohydrates.

"Organic Sulphur Compounds" was discussed at the December 12 meeting at M.C.V. by Dr. Ralph W. Bost, head of Department of Chemistry, University of North Carolina.

The 239th Section meeting on January 9 in the Egyptian Building, M.C.V., brought Dr. Louis F. Fieser, Sheldon Emery Professor of Organic Chemistry, Harvard University. He was introduced by Dr. Shelton Horsley, who prefaced the address with a brief review of cancer research. Dr. Fieser spoke on "Studies of Cancer-Producing Hydrocarbons." Certain higher aromatic hydrocarbons are capable of producing cancer in mice, and he gave a highly interesting and informative discussion of
what had been found out and what was being done in research on carcinogenic hydrocarbons.

An interesting discourse on "The Romance of Latex in Industry" featured at the February 13th Section meeting at M.C.V. by Dr. M. C. Teague, Head of the Department of New Products Investigations for U. S. Rubber Company. The many uses, developments, and needs, together with a large display of latex products made the talk very instructive and enjoyable.

Dr. Berne-Allen, Jr. was called to active duty as Major, Chemical Warfare Service, U. S. Army.

The March 13 Waynesboro meeting had as its guest speaker Dr. Herman Franz Mark, Professor of Organic Chemistry, Brooklyn Polytechnic Institute, Brooklyn, whose subject "Fundamental Aspects of the Synthetic Rubber Problem" was especially timely in view of the increasing war shortage situation.

At the March executive meeting, Mr. Wm. Ralston introduced the subject "Activity of the Virginia Section in Civilian Defense," which everyone present discussed. A committee was appointed to study how the Section could best serve, and an offer of aid was made to the Defense agencies. A very considerable motion was passed whereby the entertainment committee would see that those not having transportation would be assigned to cars of those attending meetings.

At the business session following the March meeting, the Constitution change proposed by Mr. Rodney Berry was unanimously carried. This provided for a board of trustees, authorized to invest and reinvest all funds placed with them and to report annually, or upon request.

The Section regretfully accepted the resignation of Major Berne-Allen as Chairman. Since only 3 meetings remained, it was decided not to elect a Chairman, and subsequent meetings were presided over either by the Executive Vice-Chairman or a former Chairman.

The annual Williamsburg joint meeting of the Section and Hampton Roads Chemists Club was held April 11, Vice-Chairman Hanmer turning the meeting over to Dr. R. G. Robb, who served as Chairman and host. He introduced the speaker, Mr. Wm. H. Bradshaw of the DuPont Company, who spoke on "Viscose and Cordura Rayon." Rayon manufacture prior to World War II was primarily interested in producing a new fiber for wearing apparel, especially in sportswear, but was becoming increasingly important in relieving the shortage of silk, wool, tin and rubber. Nylon was particularly useful in parachutes and balloon bags, while cellophane was becoming indispensable in supplanting tin-foil for moisture proof wrapping. Cordura was becoming very important in tire manufacture.

At dinner, the group was most instructively entertained by Dr. J. Earl Moreland, President of Randolph-Macon College, on the subject of South America, entitled "That Other America."

The Virginia Section and the Blue Ridge Section joined the Virginia Academy of Science in their 20th annual meeting, May 7, 8, 9 at Hotel Roanoke, Roanoke, Va. At the Friday evening banquet, Mr. H. F. Sanders gave the address of welcome, with response by President George W. Jeffers. Dr. Frank C. Vilbrandt presented the awards, and the address was by Dr. W. H. Sebrell, Jr., Chief Div. of Chemotherapy, National Institute of Health. The Section of Chemistry was presided over by F. H. Fish, Chairman.

Dr. Warren T. Vaughan, Director of the Vaughan-Graham Clinic, Richmond, addressed the Section at Cobb Chem. Laboratory, Univ. of Virginia, May 29 on the subject "Occupational and Chemical Aspects of the Allergy Problems." Using Lantern slides, Dr. Vaughan divided his discussion in three parts; the first dealt with the chemical theories of immunity and how
they are applied in the explanation of allergy. The second dealt with allergic sensitization to drugs and its presumed psychological mechanism. The third portion was an illustrated presentation of cases of occupational allergy, especially allergic skin diseases.

At the May executive meeting, a tentative program for the coming fiscal year was adopted. On June 19, the Section met at the Hermitage Country Club for the annual business and social meeting.

Report of the secretary showed a membership of 378 with a net gain of twenty-three. The treasurer's report showed investments of the Section amounting to $1,584 and a bank balance of $309.20.


Mr. Cabell Dudley of the Standard Oil Company provided a film on the Country of Iran, and Mr. Warren Moody, city chemist in charge of defense, spoke on the responsibility of the Section in this respect. Incidentally, practically every member of the Section was engaged in one or more phases of defense work.

1942-1943

The year 1942-1943 of the Virginia Section opened upon the note of War, which had commenced the previous December, with a meeting of the Executive Committee at which the role of the Section in War-time was discussed, especially as regards civilian defense. This was followed by a special meeting called July 29, 1942 at which Mr. W. L. Moody, chemist in charge of training for the Richmond Office of Civilian Defense, spoke to the Section. A resolution was adopted offering the fullest cooperation of the Section to the O.C.D., and members were rapidly organized for work in the various phases of gas detection, gas and fire defense and decontamination, and training and education of the civilian population.

Officers of the Section for this year were:

- Chairman: Mr. H. R. Hanmer
- Executive Vice-Chairman: Mr. Foley F. Smith
- Secretary: Mr. E. S. Harlow
- Treasurer: Dr. William E. Trout

In spite of difficulties, due to War conditions, in making arrangements for meetings and in transportation, the chairman was able to note in his annual report that "while the exigencies of the times might well have provided an excuse for flagging interest or even indifference; on the contrary the meetings were well attended while interest was vigorous and sustained throughout the year." Thirteen meetings, including the special meeting, were held, of which eight were in Richmond, two in Charlottesville, two in Waynesboro and one in Hopewell, and the
The dominating influence of the War was evident throughout the program.

Following Mr. Moody's talk on Civilian Defense, Dr. R. G. Robb, at the September meeting in Hopewell, spoke on "The History of Gas Warfare." In November Dr. H. N. Holmes, who was then president of the A.C.S., addressed a meeting in Richmond on "Strategic Materials and the National Defense," emphasizing the critical rubber situation and making solicitations of aid for "mobilization" of all laboratory stocks of quinine upon which he was then engaged. In January Dr. Gustav Egloff spoke on "Substitute Fuels in a World at War," and the following month Mr. S. D. Kirkpatrick spoke on "War Advances Along the Chemical Front." A meeting in May at the University of Virginia was addressed by Dr. M. L. Crossley on "Certain Aspects of Chemotherapy in War." The program for the year was well balanced, with discussions by other eminent men on topics of great immediate interest. In November Dr. Stanley F. Kerns spoke to the Section at the University of Virginia on "The Electron Microscope" and in December at Richmond Dr. I. M. Kolthoff spoke on "Polarography and Amperometric Titrations," which were commanding rapidly increasing interest in the analytical field. Other talks of great interest to the Section were at Waynesboro in October, Dr. Milton Harris' discussion of "Recent Developments in Textile Fibers"; also at Waynesboro in March, Mr. E. Morrell's talk on "The South and the Future"; and at Richmond, Dr. C. R. Addinall's talk on "Vitamins." This last paper reflected the interest of the Section in the importance of the recently completed Stonewall Plant at Elkton, which within a period of two years from breaking ground, had become an important factor in the nation's resources for production of vitamins and chemotherapeutic agents. The professional personnel of this plant also were beginning to provide a vigorous and welcome additional center of activity and support for the Section.

In May the Section held its usual joint meeting with the Virginia Academy of Science in Richmond, and as evidence that chemists occasionally divert their attention from things chemical, there were dinner speakers at a number of the meetings during the year whose topics ranged from the entertaining and reminiscent "Negro Philosophy" by Mr. Bernard Robb (emphasizing at one point that "two is company and three is commotion"), and a sprightly and likewise somewhat reminiscent talk by Dr. Frank Apperly on "Australia," to a discourse by Lt. C. L. Kessler on "Refrigerated Penguins."

**1943-1944**

This year, still in the era before the word "fission" was so forcefully thrust into the popular vocabulary, was marked for the Virginia Section by an event, which at the time was described in the report of the Secretary by the more classical metaphor of maternity: "The Virginia Section assumed a maternal role during the latter part of the year when the Hampton Roads Chemists Club petitioned and was granted a charter to form the Hampton Roads Section of the American Chemical Society. This happy event, the second such in the history of the Mother Section, was welcomed by all as evidencing the growth of chemistry in the Old Dominion. The offspring was a lusty infant with fifty-four charter members."
The officers of the Section for the year were:

- Chairman                           Dr. James W. Cole
- Executive Vice-Chairman     Dr. Robt. H. Kean
- Vice-Chairman                   Dr. W. R. Harlan
- Secretary                           Dr. W. W. Owen
- Treasurer                           Dr. J. Stanton Pierce

The program for the year included a group of four papers on cellulose and high molecular weight polymers. The first meeting of the year was in Hopewell, where Dr. Emil Ott addressed the Section on "The Relation of Physical Characteristics and Chemical Structure of Cellulose Derivatives." Dr. Hermann Mark spoke to the Section twice: at Waynesboro in October, when his topic was "Viscosity and Molecular Weight of High Polymers"; and at Richmond in February, where he spoke on "Mechanical Behavior and Molecular Structure of High Polymers." Dr. R. F. Conaway, a member of the Section, was the speaker at a meeting in Waynesboro in March, his subject being the "Role of Chemistry in High Polymeric Chemistry." Besides Dr. Mark, another speaker addressed the Section twice, Dr. Lee Irwin Smith spoke on two successive nights in December to meetings in Elkton and Richmond on "The Value of Useless Research." Such episodes give evidence of the "local" nature of meetings under the impact of war-time gasoline rationing. On another occasion, while Mr. H. H. Meyers was addressing a meeting in Richmond there was an air raid drill and "black-out." While air raid wardens hurriedly withdrew, Mr. Meyers continued his talk on "Economics of Nitrogen and Other Fertilizer Materials," to the rest of the audience, unhampered by lack of lights and notes. Mr. W. J. Murphy's talk on "The Chemist's Responsibilities in War and Peace" further emphasized the preoccupations of those days. Dr. William B. Warren addressed the March Richmond meeting on "Modern Instrumental Analysis," and Dr. L. R. Scribner spoke to the April meeting in Charlottesville on "Tantalum and its Applications." The May meeting was a joint meeting with the Virginia Academy of Science at which Dr. E. H. Hamann gave a talk illustrated with colored motion pictures on "Essential-Oil Production Around the World." This joint meeting was of further interest to the Virginia Section in that it saw the election of one of its members, an ex-chairman, Mr. H. R. Hanmer, to presidency of the Academy.

The Bulletin for November, 1943, records that all members of the Section were pleased when their fellow member Lloyd Campbell Bird was nominated from the 34th District as Senator in the Virginia Legislature, and the author of the article shows his prescience by opining, "The 'Winnah' will be the ideal Virginia Senator in our opinion."

The official count of Virginia Section membership as of December 1, 1943 was 301 members. The minutes of the 265th meeting in February record that the Section, having more than three hundred members, was entitled to elect a fourth councilor, and that Dr. J. C. Forbes was elected to the office. With his wonted aptness, his response was that it being very evident he represented no one but himself, he could vote just as he pleased in Council Meetings!

The death of Mr. William Clift, a former chairman of the Section, a leader in its work, and a loyal friend, which occurred in the summer of 1943, was a sad loss to be recorded in this year.
Because of the stringency of gasoline rationing and the ever increasing limitations on travel ("Is this trip necessary?"), the Section organization for this year included four Regional Vice-Chairmen to maintain Section activities and help with meetings in the different localities.

The officers of the Section for this year were:

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<td>Chairman</td>
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<td>Executive Vice-Chairman</td>
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<td>Waynesboro</td>
<td>Clifford M. Smith</td>
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<td>Secretary</td>
<td>Mary E. Kapp</td>
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<td>Alfred Burger</td>
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The program for the year comprised ten meetings, five of which were in Richmond, two in Waynesboro, and one each in Charlottesville, Elkton, and Hopewell. The first meeting of the year, in Richmond, was addressed by Dr. John C. Krantz of the University of Maryland on "Anesthesia, Man's Redemption from Pain." At the next meeting, in Waynesboro, the speaker was a member of our neighboring Section from the Blue Ridge, Dr. P. C. Scherer, who spoke on "Some Unusual Reactions of Cellulose." Dr. R. H. Kerke of the U. S. Rubber Company addressed the November meeting in Hopewell on "Rubber Properties," and in December at Elkton, Dr. A. L. Henne of Ohio State University presented a paper on "Fluorides." One of the highlights of the year was the February meeting in Richmond with a record attendance of members and friends who came to hear our own Dr. J. C. Forbes talk on "Proteins in Nutrition." Presenting not only the technical side of his topic in most interesting fashion, he followed up the aesthetic by showing a colored motion picture on the proper cooking of meats, which in its exposition of steaks and roasts in that year of the Ration reduced his audience to a state of nostalgia and salivation.

Another meeting in Richmond was addressed by Dr. W. A. Mosher of the Hercules Powder Company, on Terpene Chemistry, and Dr. W. C. Fernelius of the Monsanto Chemical Company spoke before a Waynesboro meeting in March on the "Structure of Coordination Compounds."

The April meeting was held in Charlottesville, the lecture being jointly sponsored by the Virginia Section and the University of Virginia Chapter of Alpha Chi Sigma. The speaker of the evening was Dr. C. R. Adinall of Merck & Company, whose topic was "Penicillin."

The final speaker on the year's program was a member of the Section, Dr. Alfred Burger, who had previously proved himself a most popular speaker with his fellow members, and who "packed 'em in" at the May meeting in Richmond to hear his address on "Chemoteraphy Since 1940."

During this year the Section welcomed a student affiliate chapter formed at William and Mary with a group of twenty-three chapter members, increasing its membership some 10% during the
year. The chairman of the entertainment committee reported an average
to 100 at Section dinners preceding meetings, which was a noteworthy
evidence of support and interest by the members, considering the necessarily "local" nature of
meetings held in five different cities.

With all its increase and accomplishments however, the Section during this year sustained a
heavy loss in two of its most loyal and beloved members: Major Catesby Jones, who died in the
summer of 1944, and Mr. Henry K. McConnell, who died in the early spring of 1945. In the councils
of the Section and in its friendships they were sorely missed.

1945-1946

This year began with a spirit of optimism, since it was the first time in over three years that
limitations imposed by the War were lifted in part. It also brought the return of many fellow chemists
who had been serving in the Armed forces all over the world. With the discontinuance of gasoline
rationing, the renewal of former contacts throughout the Section was foremost in everyone's mind.

The officers of the Section for this year were:

Chairman                           William R. Harlan
Executive Vice-Chairman     Clifford M. Smith
Vice-Chairman                   Robert L. Riggs
Secretary                           Mary E. Kapp
Treasurer                          James J. Carney

Ten technical papers were presented before the Section by invited speakers during the year.
They were distributed in the following manner: three in Richmond; two in Charlottesville; two in
Waynesboro, and one each in Hopewell and Elkton.

The first meeting was held in Richmond and was addressed by Dr. George Rieveschl, Jr., of
the Parke-Davis Company on "Antihistamine Drugs and Their Pharmacological Effects."

For the second meeting of the year, many from Richmond area journeyed to Charlottesville
to hear Dr. William S. Calcott of the DuPont Company speak on "The Effect of `Trace' Chemicals in
Influencing Reactions."

The first December meeting was held in Hopewell. Dr. Harold M. Spurlin of the Hercules
Powder Company spoke to the Section on "Solubility and Swelling of High Polymers." The second
meeting in December was held in Elkton and was addressed by Prof. Selman A. Waksman of
Rutgers University on the subject "Antibiotic Substances--A Challenge to the Chemist."

Dr. W. Albert Noyes, Jr., of the Department of Chemistry, University of Rochester, N. Y., was
the speaker for the next two meetings, the first being held in Charlottesville on January 17, and the
second in Richmond on January 18. Dr. Noyes' subject was "Organic Photochemistry." It should be
of special interest that the attendance at the Richmond meeting was one of the largest ever held,
with some 205 people present. The minutes of the Charlottesville meeting also recorded a big
turnout and an enthusiastic reception for Dr. Noyes, who was the President-Elect of the Society.

The next meeting was held in Waynesboro on February 20. Mr. Paul Logue of the Monsanto
Chemical Company addressed the Section on "Uses of Phosphate in Industry."

The March speaker was Dr. Milton Harris of Milton Harris Associates, Washington, D. C., who spoke before the Richmond group on "Recent Developments in Washable Woolens." This meeting attracted a large number of the ladies, who indicated considerable interest in the subject.

The second Waynesboro meeting was addressed by Dr. Eugene C. Rochow, of General Electric Company, who spoke on "Organosilicon Polymers."

The May 10 meeting was held jointly with the Virginia Academy of Science in Richmond. The May 24 meeting was held in Charlottesville. Mr. T. L. W. Bailey of the Institute of Textile Technology spoke on the "Application of Fiber Microscopy to Textile Research."

The program for the year was well balanced, with talks of interest to every group in the Section.

Of special interest during the year was the establishment of an Employment Contact Center, a limited type of employment clearing house which was available without cost to all Virginia Chemists, chemical engineers, and legitimate employers thereof in Virginia.

Much interest was manifested in pending Science Legislation introduced in Congress by Senators Kilgore and Magnuson, designed to provide federal support for scientific research and education.

The By-laws of the Section were revised to conform more closely with the By-laws of the National Society and were published in *The Bulletin* during the year.

This year marked the passing of Mr. W. M. Brown who for many years had printed *The Bulletin*. To those who had worked with him as editors and business managers his loss was a personal one.

Continued growth was again shown this year with a gain of 73 in membership. The number on roll May 15, 1946 was 418.

There were nine dinner meetings held during the year, with an average attendance of 130, which speaks well for the programs in honor of our speakers and the fine fellowship for which Virginia Section has been noted since its beginning.

1946-1947

The section began its activities early in September under the able leadership of Foley F. Smith, the first veteran of World War II to pilot the organization since the cessation of hostilities. Foley and Virginia Section have been almost synonymous to those who have been closely associated with it during the past fifteen or more years. It is noteworthy that until his association with the U.S. Army in 1943, he had missed but three meetings of the Section in thirteen years--a record unsurpassed for that period. The officers for the year were:

- Chairman: Foley F. Smith
- Executive Vice-Chairman: Clifford M. Smith
- Vice-Chairman: E.S. Harlow
- Secretary: Mary E. Kapp
- Treasurer: James J. Carney
The program for the year, comprising ten technical meetings, contained many topics on wartime achievements in the chemical field. The meetings were distributed in the following manner: two each in Charlottesville and Waynesboro, and one each in Elkton, Hopewell and Williamsburg. All meetings were exceedingly well attended.

The first meeting of the year, in Waynesboro, was addressed by our own Dr. John H. Yoe of the University of Virginia on "Some Observations at Bikini by an Eye Witness." As an indication of the interest manifested in this meeting, the minutes show that all previous attendance records for Waynesboro were surpassed.

At the next meeting, in Williamsburg, Mr. Earle J. Smith of Dow Corning Corporation spoke before the joint meeting with the Hampton Roads Section on the subject “Organo-Silicon Oxide Polymers.” Dr. Karl Folkers addressed the second October meeting, in Elkton, on "The Chemistry of Penicillin.” At the November meeting in Richmond Dr. J.H. Simons spoke on “The Use of Chemical Kinetics in Problems of Mechanism.”

A journey to Charlottesville was in order for the next meeting, to hear Dr. C. S. Marvel of the University of Illinois, Past President of A.C.S., speak on "Hydrogen Bonding."

"Aerosols" was the subject of Dr. W. H. Rodebush's address before the Richmond meeting in January. Many aspects of aerosols as they affect our daily lives were discussed with much interest to all members and visitors present.

The February meeting in Hopewell was one which attracted a large group to hear Dr. Foster D. Snell on "Surface Activity and Detergency."

The next meeting, in Richmond, marked the return of one of our past chairmen, Dr. W. R. Cornthwaite of the duPont Company, who addressed the Section on "Polyvinyl Acetate and Alcohol."

Mr. James A. Lee spoke before the April Waynesboro meeting on "New Developments in Glass, Plastics and Synthetic Fibers."

The May meeting was held with the Chemistry Section of the Virginia Academy of Science in Charlottesville.

Among the highlights and accomplishments noted during the year was the appointment of the Virginia Section Awards Committee, composed of Rodney C. Berry, J. H. Brant, James W. Cole, Robert H. Kean and John H. Yoe. The Awards Committee was initiated by an offer of an annual monetary gift on the part of Mrs. Bruce B. McConnell of Richmond, in memory of her late husband, Henry K. McConnell, Vice-President of the Tobacco By-Products and Chemical Corporation, who had been one of the Virginia Section's great leaders. The Awards Committee has been in operation since its inception, and awards made from its funds for various achievements in chemistry on the part of residents of the area have been an annual feature of the June meeting.

Virginia Section Awards from the awards committee have created unusual interest throughout the Section and much promise is indicated for greater achievement in the advancement of chemistry throughout the Old Dominion.

This year marked the beginning of a series of articles in The Bulletin entitled "Giant Steps in the History and Development of Chemistry" by William (Bill) Ralston, whose literary talents were already so well known to his many friends and admirers in the Section. Space does not permit adequate coverage of this fine contribution.
Again the membership increased during the year, with a net gain of thirty-four and a total membership of 452 as of May 15, 1947.

During the year the Section sustained the loss of one of its charter members, Dr. E. W. Magruder, as the result of an automobile accident on January 10. Dr. Magruder was one of the founders of the Virginia Chemists' Club and his passing came as a great shock to his many close friends in the Section as well as those in the Hampton Roads Section.

1947-1948

This year marked the end of another decade for the Virginia Section. Perhaps the most significant forward step was the establishment of a definite policy for making Virginia Section Awards, together with the bestowal of these honors for the first time.

Dr. Wortley F. Rudd, Dean Emeritus of the School of Pharmacy, Medical College of Virginia, was selected by the Awards Committee to receive an award for his outstanding contribution toward improvement of the professional standing of chemists. Mr. Lawrence W. Jarman, Head of the Science Department of Thomas Jefferson High School, was selected to receive the Virginia Section Award as the teacher in the Virginia Section area who had made an outstanding contribution toward stimulation of interest in chemistry at the Secondary School level.

The officers of the Section for this year were:

Chairman                           Clifford M. Smith
Executive Vice-Chairman    E. S. Harlow
Vice-Chairman                   Robert E. Lutz
Secretary                          James J. Carney
Treasurer                          Arthur F. Martin

At the executive committee meeting at the Oak Leaf Inn on July 26, it was decided to make arrangement for 15 meetings during the year and that the Section participate in 2 joint meetings: one with the Virginia Academy of Science in Blacksburg and one with the Hampton Roads Section in Williamsburg. The distribution of the meetings to be as follows: Richmond 6, including the June meeting; Charlottesville 3; Hopewell 2; Waynesboro 2; Elkton 1, and Williamsburg 1.

The first meeting of the year was held in Richmond on September 19. Mr. L. L. Hedgepeth, Executive Secretary of Virginia State Water Control Board, spoke on "The Measurement and Abatement of Water Pollution."

Dr. E. R. Gilliland, Professor of Chemical Engineering, Massachusetts Institute of Technology, spoke before the Elkton group on "Vapor Liquid Equilibria in Non Ideal Solutions," October 17.

At the Hopewell meeting on October 24, Dr. J. H. Simons, Professor of Physical Chemistry, Pennsylvania State College, was the speaker. "Chemistry of the Flourine Compounds" was the title of his address.

"Some Problems Faced by the A.C.S." was the subject of Mr. Alden H. Emery's talk before the Richmond group on November 7. The second meeting in November, held in Charlottesville, was
addressed by Dr. C. E. Denoon, Jr., of Rohm and Haas Company. His talk "Commercial Enzymes" was well received by the large audience.

"Structure and Properties of Regenerated Cellulose" was the subject of Dr. W. E. Roseveare's talk before the next meeting, in Richmond on December 5.

Waynesboro was the place of meeting for January and April. At the January meeting, Dr. A. A. Benedetti-Pichler of Queens College was the guest speaker. The subject of his address was "Kofler's Method for the Identification of Organic Substances."

"Vinyl Polymerization" was the subject of Dr. W. E. Hanford's address on April 23.

Dr. Alfred Burger of the University of Virginia was the next Richmond speaker. His subject, "Medical Chemistry Since the War," attracted a large crowd.

On March 5, Dr. R. M. Hixon, Head of the Department of Chemistry, Iowa State College, spoke before the Charlottesville group on "Recent Trends in Starch Chemistry."

Hopewell was the site of the next meeting. Dr. P. H. Groggins, Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, addressed the Section on "Recent Progress in Unit Processes."

"The Chemistry of the Atom Bomb" was the topic of Dr. H. M. Alyea's address before the joint meeting with the Hampton roads Section on May 1, in Williamsburg.

Many from the Section journeyed to Roanoke on May 7 to attend the meeting with the Chemistry Section of the Virginia Academy of Science.

The last speaker meeting of the year was held in Richmond on May 14, with Dr. W. Schuyler Miller of Randolph-Macon College speaking on "Modern Valence Theories Applied to Light Members of Groups IV, V, and VI."

It is interesting to note that another group, the Richmond Retail Druggist Association, saw fit to honor our genial friend and fellow chemist Dr. Wortley F. Rudd during the year. The painting of The Dean by John D. Slavin which was presented to the Medical College of Virginia by this organization carried with it the esteem and gratitude for his many labors in the field of Pharmacy.

The reports of the Secretary and Treasurer reflect continued growth, both in total numbers and in finances. The membership as of April 26, 1948 was 487, which was a net gain of 27 over the previous year. The balance on hand with the treasurer as of May 1, 1948 was $1,282.77.

The report of the Employment Contact Center committee showed that they handled a total of 31 registrations by persons seeking employment as chemists. During the same period, 20 openings were listed by industries in the area. A total of 47 referrals were made in attempting to match the qualifications of the registrants to the openings listed.

As we have presented the last ten years briefly in review, we hope we have noted particularly those outstanding accomplishments of The Virginia Section and indicated to some degree the contributions made towards the advancement of chemistry in our state.

Rodney C. Berry
Robert H. Kean
Randolph C. Gladding, Chairman, History Committee
THE HISTORY OF THE VIRGINIA SECTION, 1948-1959
First published in The Bulletin of the Virginia Section of the American Chemical Society

With the aid of Lynn D. Abbott, Jr. and William E. Trout, the history of the Virginia Section for the next decennial period [1948-1959] is hereby completed.

Mary E. Capp, Chairman
History Committee

1948-1949

Chairman                           E. S. Harlow
Executive Vice-Chairman     R. E. Lutz
Vice-Chairman                   Lynn D. Abbott, Jr.
Secretary                          Arthur F. Martin
Treasurer                          K. C. Bass, Jr.

Thirteen meetings were distributed over the section area, with seven including the June meeting in Richmond, two in Charlottesville, one each in Staunton, Hopewell, Waynesboro, Elkton, and Williamsburg. Beginning in September in Richmond, Dr. R. W. G. Norrish of Cambridge, England spoke on "Polymerization." In October, Dr. John C. Bailer, Jr., University of Illinois, spoke on "Inorganic Coordination Compounds" and in Staunton, Dr. G. B. B. M. Sutherland of Cambridge University spoke on "Application of Infrared Analysis to Structure of Large Molecules." A Richmond meeting in November featured Dr. F. R. Darkis of Liggett-Meyers Tobacco Company on "The Chemistry of Turkish Tobacco." In Hopewell in December, Dr. John M. Arthur of Boyce Thompson Institute spoke on "Growing Plants in Artificial Climates." At Richmond in January, Dr. W. C. Goggin of Dow Chemical Company talked to a joint meeting with the Central Virginia Engineers Club on "Current Plastics Problems and Developments." A February meeting in Charlottesville brought Dr. G. L. Roper from American Cyanimid Company to speak on "Scientific Aspects of Dyeing." During March in Richmond, Dr. James W. Mullen II of Experiment Incorporated spoke on "The Supersonic Ram-Jet Engine" and in March at Waynesboro, Dr. Eugene G. Rochow from Harvard University spoke on "Silicones." In Elkton, Dr. R. T. Major from Merck and Company, spoke on "Chemical Research in Europe During and Since World War II." In Williamsburg, Dr. W. J. Coxall from Rohm and Haas Company, spoke on "Condensation of Acetylene with Esters," this meeting jointly with the Hampton Roads Section. At the May meeting in Richmond, Dr. R. G. Wykoff of National Institutes of Health was speaker on "The Photography of Macromolecules." The June business meeting for election of officers was held in Richmond.

In this year the section lost through death one of its most valued members, William Ralston. To replace him as Editor of The Bulletin, Mary Kapp was appointed. The bylaws were rewritten to conform in general to those of the national society and were published in November. The first radio
program was started in March in cooperation with Station WLEE. Dr. Wortley F. Rudd received an honorary degree, Doctor of Science, from the Medical College of Virginia. The Distinguished Service awards were given to Mrs. Thelma C. Heatwole in secondary science teaching and to Dr. Sidney S. Negus for his contributions towards improving the professional standing of chemists. The year ended with 487 section members.

1949-1950

Chairman                           Robert F. Lutz
Chairman-Elect                   Lynn D. Abbott, Jr.
Vice-Chairman                   William G. Guy
Secretary                           W. A. Fessler
Treasurer                           Kenneth C. Bass

The Awards Committee accepted the administration of a William Ralston Memorial for excellence in scientific writing, given by Lauren C. Hitchcock. The first winner was Harold C. Breeden of the University of Virginia.

The January 1950 issue of *The Bulletin* carried the first of a series of articles on the History of the Virginia Section for the period 1938-1948. *The Bulletin* also published a series of interesting articles about chemical industry in Virginia and chemistry departments in various colleges in the state. Meetings of the section were distributed as follows:

Richmond, September 16. "Chemical Approaches to the Cancer Problem" by Nelson F. Young
Waynesboro, October 7. "Centrifugal Fields and Electrochemical Energy" by Duncan A. MacInness
Petersburg, October 20. "Soil and Fertilizer Investigations with Radioactive Phosphorus" by Dr. F. W. Parker
Richmond, November 11. "Recent Advances in Rare Earth Chemistry" by Dr. Laurence L. Quill
Charlottesville, December 2. "Chemical Methods for Isolating Radioisotopes" by Dr. J. A. Swartout
Richmond, December 9. "The Search for Therapeutic Agents in Series" by Dr. F. F. Blicke
Charlottesville, January 13. "Chemical Research and Facilities at Bureau of Standards" by Dr. Wallace R. Brode
Richmond, January 27. "Isotope Tracer Studies in Nucleic Acid Metabolism" by Dr. George B. Brown
Richmond, February 17. "Nuclear Science in the South" by Dr. Ralph T. Overman
Hopewell, March 10. "The Coming Age of Rocket Power" by Dr. Edward Pendray
Elkton, April 7. "Recent Advances in Organic Medicinals" by Dr. Max Tischler
Williamsburg, April 29. "Forces Between Atoms, Ions, and Molecules in Crystals" by
Dr. John A Timm. Joint with Hampton Roads Section
Waynesboro, May 19. "Theories of Cellulose Structure" by Dr. Eugene Paccu
Richmond, June 9. Annual June meeting for election of officers and presentation of Awards.
The distinguished service award was presented to Dr. Garnet Ryland of the University of Richmond. For excellence in secondary science teaching, the award was given to William I. Nickels, Jr., of Lane High School, Charlottesville.

The year ended with 516 members including 48 associate members.

1950-1951

Chairman                           Lynn D. Abbott, Jr.
Chairman-Elect                   William G. Guy
Vice-President                    Mary E. Kapp
Secretary                           Kenneth C. Bass
Treasurer                          Clinton Baber

The program for the year included thirteen regular meetings in addition to the annual business meeting in June. Of these, five were held in Richmond, two each in Hopewell, Charlottesville and Waynesboro, and one each in Elkton and Williamsburg. The first meeting of the year was held in September at Hopewell. Dr. J. B. Quig of the DuPont Company discussed "New Synthetic Fibers." There were two meetings in October: Dr. Lorne M. Long, Parke Davis Company, on "Chloromycetin" in Richmond; Dr. James M. Smith, American Cyanamid Company, on "Recent Developments in Pteridine Chemistry" at Charlottesville. In November at Richmond, Dr. G. C. Finger, of the Illinois State Geological Survey, presented "Aromatic Fluorine Compounds." Dr. Paul J. Flory, Cornell University, spoke on "Structure and Properties of Three Dimensional Polymeric Structures" in Waynesboro on December 1. Dr. Howard B. Lewis, University of Michigan, spoke on "Chemical Defenses of the Living Organism" at the January meeting in Richmond. There were two meetings in February, one in Richmond at which Dr. H. P. Gregor, Brooklyn Polytechnic Institute, talked on "Ion Exchange Resins," and one in Charlottesville on "Constitution and Performance of High Explosives" by Dr. W. C. Lothrop of the Arthur D. Little Company. Dr. Edward Mack, Jr., Ohio State University, addressed one of the March meetings, at Hopewell, on "Photosynthesis," and Dr. Lewis H. Sarrett, Merck and Company, talked on "Cortisone" at the other March meeting, in Elkton. In April at Richmond, Dr. Lauren B. Hitchcock, National Dairy Products Corporation, spoke on "The Cow and You - Chemistry and Modern Dairy Research." At Williamsburg in April, a joint meeting with the Hampton Roads Section was held at which Dr. Dayton E. Carritt, of the Chesapeake Bay Institute, the Johns Hopkins University, spoke on "Chemical and Physical Studies of the Chesapeake Bay." The program meetings for the year were concluded in Waynesboro with an address by Mr. Edwin Cox, Virginia-Carolina Chemical Corporation, on "1975 - A Case History of Chemical Development."

One of the accomplishments of the year was a survey of Chemists and Chemical Engineers in the Section area, which was conducted for the National Security Resources Board at the request
of the American Chemical Society. This was completed under the leadership of Dr. E. J. Wilson, Jr. The report of the Professional Manpower Survey Committee was presented to the section at the Williamsburg meeting in May, and it noted that of a total 976 chemists, 481 were in manufacturing industries, 297 were high school chemistry teachers, 68 were in colleges and universities, 82 in state and municipal government laboratories, 38 in commercial laboratories and research institutes and 10 were in federal government laboratories. The completed survey was forwarded to the national headquarters of the American Chemical Society.

Another accomplishment was the May directory issue of The Bulletin, prepared by the staff of The Bulletin under the editorship of Miss Elizabeth L. Wilson. Mr. J. R. Lindsay resigned as Business Manager of The Bulletin after nine years of very capable and efficient management. He was succeeded as Business Manager by Mr. Bernard Acree of the American Tobacco Company Research Laboratory.

The Bulletin had a highly successful year under its new editor, Miss Elizabeth Wilson, with Associate Editors Loyal H. Davis and W. B. F. Randolph.

The recipient of the Distinguished Service Award of the Section was Mr. Edwin "Pete" Cox. Membership of the Section as of April 1, 1951 was listed as 535 members with 60 associates.

The section this year suffered with great sorrow the passing of Dean Wortley F. Rudd, Van L. Bohnson, and Dr. Robert G. Robb. The Section also lost, through transfer to other sections, several of its very active members, including Dr. George Coleman, Trustee Dr. E. A. Tippets, Alternate Councilor, and Professor R. F. McCracken.

1951-1952

Chairman William G. Guy
Chairman-Elect Mary E. Kapp
Vice-Chairman Kenneth C. Bass
Secretary Clinton W. Baber
Treasurer Randolph N. Gladding

This was the year during which the American Chemical Society celebrated its Diamond Jubilee and held its seventy-fifth anniversary meeting at New York on September 3-7, 1951, where, together with the International Congress of Pure and Applied Chemistry and the International Union of Pure and Applied Chemistry, assembled the largest World Chemical Conclave ever held. Section plans to participate in this Jubilee through a projected visit from a group of Young Chemists from the International Conclave did not materialize, since there was no time for acceptance of all the invitations received, but Edwin "Pete" Cox received much commendation for his well organized anticipatory arrangements. Many individual Section members attended this historic New York meeting, and later in the year we were honored with a visit from the Society President, Dr. N. Howell Furman.

The program for the year opened with an able and lucid exposition by Dr. Allan T. Gwathmey of the University of Virginia, at the September meeting in Richmond, on his magnificent researches
The Virginia Section, 1948 – 1959

Dr. Robert E. Lutz
Chairman, 1949

Dr. Sidney S. Negus
Distinguished Service, 1949

Thelma C. Heatwole
Distinguished Service, HS 1949

Past Chairmen of the Virginia Section with new Chairman, Lynn D. Abbott, Jr. at far left, 1950

Dr. Garnett Ryland
Distinguished Service, 1950

William I. Nickels, Jr.
Distinguished Service, HS 1950
Past Chairmen of the Virginia Section, 1951
Left to Right: Foley R. Smith, C. Braxton Valentine, Sidney S. Negus, J.
Bernard Robb, Edwin Cox, William G. Guy, J.C. Forbes, Lynn D. Abb-

Dr. Mary E. Kapp
Chairman, 1952

Vada C. Miller
Distinguished Service, HS 1952

Susie V. Floyd
Distinguished Service, HS 1953

Herbert Felix Sanders
Distinguished Service, HS 1954

John Campbell Forbes
Distinguished Service, 1955

Franklin Dadmun Kizer
Distinguished Service, HS 1955

Edwin "Pete" Cox
Distinguished Service, 1951
in "Surface Reactions with the Aid of Large Metal Crystals."

The first October meeting was held in Hopewell, where Dr. Henry B. Haas, Manager of Research and Development, General Aniline and Film Corporation, gave some educated insights into "The Newer Chemistry of Acetylene." The second October meeting was at Charlottesville, where Dr. William P. Boyer, Director of Research, Virginia-Carolina Chemical Corporation, and an active Section member talked on "The Phosphorous Role in Organic Chemistry."

The November Richmond meeting was described as a "highlight of the year," where one of the largest groups of the year turned out to greet Dr. Furman, President of the American Chemical Society. His informed address on "Advances in Electrochemical Methods of Analysis" demonstrated the profound effects upon present day analytical methods of the effective researches which he and his associates have carried on in this field. The visit was a stimulating one in every way.

The Section went further afield and invaded outer space when, at the December meeting at Waynesboro, we were carried into the heavens by Dr. T. H. Dunkelberger of Duquesne University during his delightful admixture of astronomy, geology, physics, and chemistry in an entertaining treatment of "Celestial Chemistry."

"Milestones in Vitamin Research" was handled in a most professional manner at the January meeting in Richmond, by Dr. R. Adams Dutcher, Pennsylvania State University, an international authority on food and nutrition.

In February, the Section returned to Charlottesville to hear Dr. Hubert N. Alyea, Princeton University, give his explosive talk on "Atomic Energy-Weapon for Peace," wherein the need for world-wide control of this devastating weapon was urgently stressed with his usual forceful dynamism.

The March meeting in Richmond was addressed by another of our able, active Section members. Dr. Henry Leidheiser, Virginia Institute for Scientific Research, discussed the considerable research effort being expended in discovering "Chemical Methods of Obtaining Surfaces with High Lustre." Later in March, the Section returned to Waynesboro to hear Dr. Philip C. Sherer, Virginia Polytechnic Institute, report on a series of investigations on cellulose derivatives carried out at V.P.I. All were neatly packaged in his "Distribution of High Polymers and their Mechanical Properties."

Two meetings were held in April. At the earlier Richmond meeting we had the rare pleasure of listening to a woman chemist, Florence E. Wall, Consulting Chemist, as she stressed attention to "Cosmetics as a Field of Chemical Research." Later in Williamsburg, the Section held its annual joint meeting with the Hampton Roads Section, where Dr. R. C. Herman of the John Hopkins University, profoundly impressed the afternoon session in his excellent presentation of various theories on "The Origin of the Elements," the after-dinner speaker at the evening session, Rev. A. E. Acey, Portsmouth, treated the subject "Noblesse Oblige" with deftness and humor.

April also witnessed a unique event in Section history when it joined in sponsoring a Seminar on Research and Development which was planned and directed by the Virginia-Carolina Chemical Corporation. The panel of speakers included Dr. S. S. Negus, Dr. Allan Gwathmey, Dr. Lauren B. Hitchcock, Dr. Milton Harris, and Dr. John Weiss. The concluding address was made by the Hon. Colgate W. Darden, President of the University of Virginia and former Governor of Virginia, on "Scientific Research and Our American Way of Life." This Seminar provided a richly rewarding experience for all who attended.
Another Hopewell meeting was held in May where Colonel Henry A. Kuhn, consulting chemist, showed some of the relationships involving "The Chemical Industry and National Defense." Also in May, the Section met with the Chemistry Section of the Virginia Academy of Science at its annual meeting at the Hotel Chamberlin, Old Point Comfort.

At its annual business and social meeting in June, the Section fittingly made its Distinguished Service Award to H. Rupert Hanmer, Director of Research, The American Tobacco Company, in recognition of his tireless and many-sided scientific activities. The Distinguished Service Award for a high school teacher was given to Miss Vada Miller for her inspirational work in secondary school science teaching. An honored guest at this June meeting was Robert B. Arnold, who had just completed fifty years of membership in the American Chemical Society.

The Membership Committee reported a total of 543 regular members and 73 associate members as of May 1, 1952. The Radio Committee, under the Chairmanship of Samuel L. Silver, reported a total of 30 ten-minute programs broadcast on successive Saturdays over WLEE from October, 1951 to May, 1952.

At a meeting of the Executive Committee late in May, a recommendation for study of a system of nominations and elections foreshadowed changes leading to greater participation by Section members in selecting their officers and to more equitable distribution of nominees over the various areas represented by the Section.

The Section was happy to recognize the contribution of Alfred Burger, Robert E. Lutz, and their associates in bringing to Charlottesville in June the Third National Symposium of the Division of Medicinal Chemistry, A.C.S.

During the year the Section sadly recorded the loss of Frank B. Carpenter, one of the "founding fathers," and of Earl K. Fischer, who had for years been head of the physical chemistry division of the Institute of Textile Technology at Charlottesville.

1952-1953

Chairman                           Mary E. Kapp
Chairman-Elect                   Clinton W. Baber
Vice-Chairman                   William E. Trout, Jr.
Secretary                           Randolph N. Gladding
Treasurer                          G. J. Coli, Jr.

The September meeting was outstanding; the subject "Aluminum-Foil--Its Present and Future" was discussed by a local Section Member, A. I. Totten, Jr., of Reynolds Metals Company. Other meetings were listed as follows:

Charlottesville, October 17. "The F-, B-, I- Strain" by Dr. Herbert C. Brown
Hopewell, November 7. "Modern Plastics and Their Uses" by Dr. M. H. Bigelow
Waynesboro, December 5. "Technical Developments of the Alcoholic Fermentation and Distillation Industry" by Dr. Alfred L. Liebmann
Richmond, December 12. "Current Trends in the Nation's Nuclear Engineering
Program and the North Carolina State College Program in this Field” by Dr. Clifford K. Beck
Richmond, February 20. "Developments in Techniques and Uses of Spot Methods of Analysis" by Dr. Philip W. West
Hopewell, April 10. “Some Aspects of the Chemical Industry in Europe” by Dr. Robert M. Reed.
Williamsburg, April 25. "Synthetic Soil Conditioning Chemicals” by Dr. James C. Engibous
Waynesboro, May 22. "High Pressure Gas-Phase Reactions” by Dr. Blaine C. McKussick

The Distinguished Service Awards were presented to Lloyd C. Bird and to Miss Susie Floyd. Allan T. Gwathmey was selected as the recipient of the Southern Chemist Award, an award given annually by the Memphis Section.

During this year the Executive Committee voted that the Section change its business from a fiscal to a calendar year basis, to be effective January 1, 1954. The officers elected in June, 1953, were to serve one and a half years. This recommendation was duly accepted by vote of the general membership.

As Chairman of the Manpower Committee, Fred L. Kelly was instrumental in starting a program on career guidance at the secondary school level.

Membership increased by 35 to total 758.

1953 (July)-1954 (December)

Chairman                Clinton W. Baber
Chairman-Elect          William E. Trout, Jr.
Vice-Chairman           Randolph N. Gladding
Secretary               C. J. Coli, Jr.
Treasurer               Everett C. Cogbill

This is the memorable term when the officers served for one-and-a-half years so that the Section affairs could be put on a calendar basis to coincide with business by the national society.

Alfred Burger was awarded the Louis Pasteur Medal for 1953 by the University of Paris. As of December 1, 1953, membership was 604 and at year end, 1954, had risen to 618. During 1954, the bylaws were amended to include the manner of election of officers on a calendar year basis and to elect officers by mail ballot.

In the May 1954 issue of The Bulletin, the Virginia Section membership list was published. The September issue carried biographical sketches of officers presented by the nominating committee, voting to be mail ballot for the first time.

This year saw a meeting for the first time scheduled in Fredericksburg. For the second time in four years, the president of the American Chemical Society appeared in the Section's program. During the eighteen months, eighteen regular meetings took place:
Richmond, September 25. "The Use of High Rotational Speeds in Research" by Dr. J. W. Beams
Hopewell, October 16. "Our Future Sources of Energy" by Dr. Farrington Daniels
Charlottesville, October 30. "Science, Art, and Education" by Dr. Ralph E. Gibson
Richmond, November 13. "Catalytic and Biocatalytic Effects in the Tobacco Plant" by Dr. W. G. Frankenburg
Waynesboro, November 20. "Industrial Implication of Nuclear Energy" by Major-General William H. Milton
Richmond, December 11. "Medicinal Chemistry--Today and Tomorrow" by Dr. Alfred Burger
Richmond, January 16. "Applications of Glass in Industry" by Mr. E. K. Lofberg, joint meeting with Central Virginia Engineers Club
Richmond, February 19. "Colors of Life" by Dr. Alsop H. Corwin
Charlottesville, March 12. "Some Aspects of Chemistry and Biochemistry of Cholesterol" by Dr. L. F. Fieser
Fredericksburg, March 26. "How Industry Can Profit from Government Research" by Dr. Archie M. Palmer
Waynesboro, April 9. "Chemistry in Crime Detection" by Dr. Briggs J. White
Hopewell, April 16. "Biochemical Individualism and Alcoholism" by Dr. Roger J. Williams
Williamsburg, April 24. "The Plant Hormones" by Dr. Evans B. Reid, joint meeting with Hampton Roads Section
Richmond, September 10. "Design and Analysis of Experiments" by Dr. W. L. Gore, joint meeting with Virginia Section of the American Society for Quality Control
Waynesboro, October 15. "Some Relationships of Chemistry to Archaeology" by Dr. Erle R. Caley
Charlottesville, November 19. "Research and You" by Dr. E. D. Crittenden
Richmond, December 3. "The Role of Analytical Research in Industrial Developments" by Mr. John Mitchell

1955

Chairman                           William E. Trout, Jr.
Chairman-Elect                   Randolph N. Gladding
Vice-Chairman                   G. J. Coli, Jr.
Secretary                           William P. Boyer
Treasurer                           Everett C. Cogbill

In 1955, for the first time in many years, the Virginia Section began its official year in January. The transition, following the eventful eighteen-month tenure of Chairman Clinton W. Baber, was made without difficulty. The problem requiring most attention, the maintenance of the
program, was greatly facilitated by the fact that the Chairman of the Program Committee was also Chairman-Elect of the Section, not dependent on the ballot, and was at work on his program long before the year began.

The program of thirteen meetings began with a revival of the joint meeting with the Central Engineers' Club and ended with tribute to the first chairman of the Section, J. Bernard Robb. Two meetings were held in Hopewell, two in Charlottesville, two in Waynesboro, one in Fredericksburg, one in Williamsburg, and five in Richmond. The program is included for reference, omitting the annual joint meeting with the Virginia Academy of Science on May 13-14 in Harrisonburg.

January 14, in Richmond. Dr. Gordon M. Kline, Chief, Division of Organic and Fibrous Materials, National Bureau of Standards, "National Bureau of Standards on Polymers"

February 11, at the University of Richmond. Dr. Howard E. Skipper, Assistant Director and Head of Biochemistry Division, Southern Research Institute, "Application of Chemistry to the Cancer Problem"

March 25, in Fredericksburg. Dr. Herman F. Mark, Director of the Polymer Research Institute and Technical Consultant to the U.S. Navy Quartermaster Corps and National Science Foundation, "Progress in the Synthesis and Application of Polymers"

April 5, at the University of Virginia, Charlottesville. Dr. Jacob Kleinberg, Professor of Chemistry, University of Kansas, "Non-Aqueous Solvents"

April 23, in Williamsburg. Dr. W. J. Youden, National Bureau of Standards, "Dice, Data, and Deductions". Joint meeting with the Hampton Roads Section

May 6, in Hopewell. Dr. William J. Magee, Special Agent and Advisory Chemist, Federal Bureau of Investigation, Washington, D.C., "Scientific Aids to Law Enforcement"

May 20, in Waynesboro. Dr. Simon Larach, Research Chemist, David Sarnoff, Center of the Radio Corporation of America, "Luminescence of Solids"

June 3, in Richmond. Annual Spring meeting at the Officers Club of Virginia

September 23, in Richmond. Dr. William Stepka, Plant Physiologist, American Tobacco Company, at the Company's Radiological Nutriculture Laboratory, and Assistant Professor of Research Physiology, Medical College of Virginia, "Radioactive Tracers in Biochemical Analysis"

October 28, at the University of Virginia, Charlottesville. Dr. Donald F. Hornig, Brown University, "The Application of Shock Waves to Chemical Problems"

November 4, in Hopewell. Dr. Robert W. Cairns, Assistant Director of Research, Hercules Powder Company, "Framework for Research Management"

November 11, in Waynesboro. Dr. A. W. Laubengayer, Professor of Chemistry, Cornell University, "The Stereochemistry of Boron"

December 2, in Richmond. Dr. John Buchanan, Professor and Head of the Division of Biochemistry, Massachusetts Institute of Technology, "Enzymatic Reactions Concerned with the Biosynthesis of Purine Compounds"
The Section’s Distinguished Service Award was given to John Campbell Forbes, Professor of Biochemistry at the Medical College of Virginia, who was presented the award by Dr. William T. Sanger, President of the Medical College of Virginia.

The Distinguished Service Award for excellence in high school teaching was given to Franklin Dadmun Kizer, Chairman of the Science Department of Norview High School. He was presented by Dr. Dowell J. Howard, Superintendent of Public Instruction for Virginia.

Year end marked the 40th anniversary of the Virginia Section, chartered as such. At the December meeting, the first chairman of the Virginia Section, J. Bernard Robb, was honored at the dinner. He was presented with a scroll of commendation.

Warren E. Weaver assumed the duties of the Editor of The Bulletin, succeeding J. Marshall Moseley. Among the notable innovations were "The Editor's Corner" and "The Chairman's Page." J. H. McLean, who had made "Emanations" so interesting, continued until he was transferred to Kinston, when J. Doyle Smith added this column to his responsibility as Associate Editor until Hathaway Pollard (now Mrs. Clemens) began her very successful term.

At the two meetings of the Executive Committee, much of the discussion was devoted to the problem of interesting qualified students to follow chemical careers. The Manpower Committee, under its Chairman, Alexander Sadle, was given one hundred dollars for the purchase of materials to be used in high schools. Special emphasis was directed to helping the high school teachers in the sciences.

At the July 16 meeting of the Committee, the Secretary reported 589 paid members, 24 unpaid, and 6 emeritus. The Treasurer reported a net gain for the year of $316.52 and invested funds with the face value of $3315.60. The Bulletin reported cash on hand of $97.44 less than that of last December, but had a net worth of $1770.04. The figures indicated the solvent condition of the Section.

1956

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<tr>
<td>Chairman</td>
<td>Randolph N. Gladding</td>
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<td>Chairman-Elect</td>
<td>G. J. Coli, Jr.</td>
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<td>Vice-Chairman</td>
<td>William P. Boyer</td>
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<td>Alfred R. Armstrong</td>
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<td>Treasurer</td>
<td>Fred L. Kelly</td>
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This year marked a continued growth in the membership of the Virginia Section, which numbered 637 (senior and junior) as of November 1, plus six emeritus members. The total number of senior members was large enough to entitle the Section to a third councilor for the year 1957. At a special election held at the December meeting, Dr. Eugene D. Crittenden was elected councilor and Mr. Rodney C. Berry, alternate councilor.

The program for the year consisted of twelve regular meetings, a joint meeting with the Chemistry Section of the Virginia Academy of Science and one social meeting. The meetings were geographically distributed as follows: Hopewell-2, Charlottesville-2, Waynesboro-2, Fredericksburg-1, Williamsburg-1, and Richmond-5.
The first meeting of the year was held at the University of Richmond on January 20. Dr. Richard C. Lord, Massachusetts Institute of Technology, spoke on "Spectroscopic Methods of Solving Problems."

Mr. Sidney Kaye was the speaker for the next meeting at the Medical College of Virginia on February 17. His topic, "Toxicologic Problems," was well received.

Journeys to Charlottesville and Waynesboro were in order for the next two meetings. At Charlottesville on March 23, a very interesting talk on "The Crystal Structure of Chelate Complexes" was given by Dr. Lynn L. Merritt, Jr., of Indiana University. "Transistor Chemistry" was the topic of the talk given at Waynesboro on April 13 by Dr. Morgan Sparks of the Bell Telephone Laboratories.

On April 29, a joint meeting with the Hampton Roads Section took place in Williamsburg. This meeting is always one of the highlights each spring. At this meeting the Section was fortunate to have Dr. Joel H. Hildebrand of the University of California speak on "Science, Pseudo-Science and Anti-Science."

The next meeting was held in Hopewell on May 4. Dr. Hartwell F. Calcote, of Experiment Incorporated, gave a most informative and interesting talk on "The Search for Rocket Propellants."

The annual June meeting was held at the Officers Club on June 1. This meeting is the social meeting of the year and is the occasion for the presentation of the Distinguished Service Awards. The recipients of these awards for 1956 were Dr. John H. Yoe, Chairman of the Department of Chemistry, University of Virginia, and Mr. Thomas H. Christie, Chairman of the Science Department, Washington-Lee High School, Arlington, Virginia. Dr. Colgate W. Darden, President of the University of Virginia, made the presentation of both awards, after which he gave a brief address on the educational opportunities and responsibilities in Virginia.

After summer vacation, the fall program resumed in September at Richmond. Mr. R. S. Lautensack of the National Aniline Division, Allied Chemical and Dye Corporation, gave a very interesting and informative talk on "Allied's Fiber Project-The Chesterfield Plant."

Our next four meetings were held in Fredericksburg, Waynesboro, Hopewell and Charlottesville, respectively. "The Sub-microscopic Structure of Cellulose as Revealed by Chemical Methods" was the subject of Dr. O. A. Battista's address before the Fredericksburg group on October 12.

Dr. Raymond F. Boyer, Dow Chemical Company, spoke at the October 26 meeting in Waynesboro on "Block and Graft Copolymers Prepared by Ionizing Radiation and Other Means."

The next two meetings, on November 2 and 30, were held in Hopewell and Charlottesville, respectively. Mr. A. H. Paesler, Virginia State Water Control Board, spoke in Hopewell on "The Importance of Chemistry in Water Pollution Control," and Dr. Harry H. Sisler of the University of Florida spoke in Charlottesville on "Inorganic Chemistry-An Undeveloped Resource."

Among the unusual events of the year was the presentation at the December meeting of a gavel donated to the Section by Mr. Hiram R. Hanmer, Chairman in 1942. This gavel was made by Mr. Samuel A. White, Manual Training Instructor, Binford Junior High School, from eleven woods native to Virginia. The wedges in the gavel were made of pine, cherry, oak, hickory, cedar, birch, maple, walnut, cypress, and poplar. The handle was made of crepe myrtle and the black dot in the center of the gavel was made of cocobolo. A case for the gavel, made of cherry, was given to the Section by Mr. Randolph R. Chesson of the Department of Research and Development, The American Tobacco Company. The gavel and case were gratefully received by Dr. G. J. Coli, Jr.
Chairman-Elect, on behalf of the Section.

The attendance at the meetings during 1956 was a good indication of the interest in the diversified program.

An interesting observation was the addition of several new members to the Virginia Section during the year as a result of the opening of the new fiber plant of the National Aniline Division of Allied Chemical and Dye Corporation. With the tremendous expansion of chemical industry in the Richmond-Hopewell area, the finding of chemists for jobs, rather than jobs for chemists, became the task of the Employment Committee during the year.

Weekly broadcasts, with the theme "Headlines in Chemistry," were made over WLEE during the entire year. These programs did much to emphasize the importance of the chemistry profession in the state and were handled expertly by a very active radio committee.

*The Bulletin* continued to grow in the quality of information rendered to the membership. Many feature articles were published during the year. Much credit was due to Dr. Warren E. Weaver, Editor, for the contribution of time and effort devoted to this most important publication of the Section.

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**1957**

Chairman                           G. J. Coli, Jr.
Chairman-Elect                   William P. Boyer
Vice-Chairman                    Alfred R. Armstrong
Secretary                            Loyal H. Davis
Treasurer                            John W. Barger

During 1957 a total of thirteen meetings were distributed throughout the geographical areas of the Virginia Section:

January 25 in Richmond. "Recent Advances in Chemistry on Jupiter," by Dr. F. O. Rice
February 22 in Charlottesville. "Electron Distribution and Radioactivity," by Dr. Robert W. Taft, Jr
March 22 in Hopewell. "Pest Control Chemicals," by Dr. H. H. Haller
April 19 in Richmond. "Automatic Titration Methods," by Dr. David Hume
April 27 in Williamsburg. "Some Chemical Aspects of Color Photography," by Dr. Ralph Copeland
May 10 in Waynesboro. "Chemistry as Related to the Useful Properties of Textiles," by Dr. Milton Harris
June 7 in Richmond. At this meeting the Distinguished Service Awards went to Dr. Robert H. Kean and to Mr. Robert H. Horn
September 27 in Richmond. "An Heritage of Virginia Chemists-From the Ventures of Purse and Person to the Colony of Virginia," by Mr. Edwin Cox
October 18 in Waynesboro. "Continuous Reactors for Preparing Organic
Chemicals," by Dr. C. F. Allen
October 25 in Fredericksburg. "The Fibrinogen-Fibrin Conversion," by Dr. Harold A. Scheraga
November 8 in Hopewell. "Submerged Combustion," by Dr. Kenneth A. Kobe
December 6 in Richmond. "Present Status of the Chemotherapy of Cancer," by Dr. R. C. Elderfield

Dr. R. Blackwell Smith was inaugurated as fourth President of the Medical College of Virginia. Dr. Randolph T. Major, professor of chemistry at the University of Virginia, was reelected to a four-year term as director-at-large of the American Chemical Society.

The Section lost by death a faithful member, Mr. R. James Lindsay, Industrial Hygienist with the Division of Engineering, State Department of Health. Mr. Lindsay was business manager of The Bulletin for many years.


The Virginia Section was selected as host section for the Southeastern Regional Meeting of the American Chemical Society to be held in Richmond in 1959.

Worthy of mention was the presentation of the first of a series of TV programs. This series of three was entitled "Ask Me an Atom" and was a quiz contest among students from area high schools.

Significant was a rough draft preparation of an Officer's Manual. This was something much needed for the guidance of incoming officers as to their duties.

The Manpower Committee endeavored to obtain industrial employment for high school science teachers during the summer.

The year ended with 643 members.

1958

Chairman                           William P. Boyer
Chairman-Elect                   Alfred R. Armstrong
Vice-Chairman                    Loyal H. Davis
Secretary                            Alfred Burger
Treasurer                           Henry A. Hoffman

In 1958 the Virginia Section held thirteen meetings, two each in Charlottesville and in Hopewell, five in Richmond, and one each in Fredericksburg, Waynesboro, and Williamsburg.

January 10 in Richmond. "Gas Chromatography," by Dr. Stephen Dal Nogare
February 7 in Hopewell. "Mechanism of Corrosion Inhibition," by Dr. Norman Hackerman
March 7 in Charlottesville. "Unusual Aromatic Systems," by Dr. Virgil Boekelheide
April 4 in Richmond. "Inorganic Polymers," by Dr. A. W. Laubengayer
April 26 in Williamsburg. "Chemistry on a Cosmic Scale," by Mr. S. I. Gale
June 6 in Richmond. Presentation of awards

The Distinguished Service for Outstanding Contributions in the Advancement of the Chemical Profession went to Dr. William G. Guy, and Distinguished Service for Outstanding Contributions in Science Education went to Mrs. Brent Remsberg. Philip Morris Company sponsored the Social Hour. This meeting had an exceptional attendance of 221 people.

An organizational committee for the Southeastern Regional Meeting to be held in Richmond, November 1959, was appointed consisting of Drs. Armstrong, Kapp, Coli, Smithey, and Messrs. Foley Smith and Harlow. This group was charged with the preliminary planning on this project.

The Television Committee was particularly active and, in cooperation with Station WRVA-TV, presented four half-hour programs entitled "Why Take Science in High School," "Figures Is Fun," "Science Winners of the Virginia Academy of Science," and "Chemistry in Medicine."

Dr. Lauren Hitchcock, who had previously given $500 to the Section, designating the interest as an award in honor of William B. Ralston for outstanding scientific writing, suggested that this be changed and a cash award from the interest be made to a high school teacher chosen annually for distinguished service. This recommendation was accepted by the Section.

The net worth of The Bulletin was reported at year end as $1107.76. The treasurer reported the net worth of the Section excluding The Bulletin assets to be $5832.16.

The year ended with 641 members.

1959

Chairman                           Alfred R. Armstrong
Chairman-Elect                   Loyal H. Davis
Vice-Chairman                   Alfred Burger
Secretary                           Richard M. Irby, Jr.
Treasurer                           Warren E. Weaver

During 1959 the Virginia Section held eleven regular meetings with the Southeastern Regional meeting as a highlight.

February 20 in Richmond. "Enzyme Structure, Properties, and Mechanisms," by Dr. Paul D. Boyer
March 29 in Charlottesville. "Crystal Chemistry," by Dr. J. Arthur Campbell
April 3 in Bridgewater. "Chemical Problems in Antibiotics Development," by Dr. Frank J. Wolff
April 17 in Richmond. "Antibiotic Chemistry," by Dr. W. D. Celmer
April 25 in Williamsburg. "Around the Chemical World in Eighty Hours," by Dr. William T. Lippincott
May 21 in Waynesboro. "Recent Developments in Plastics in Europe," by Dr. Herman F. Mark
June 5 in Richmond. Distinguished Service Awards were presented to Edward S. Harlow and to Virginia C. Ellet
October 2 in Richmond. "Recent European Work in Gas Chromatography," by Dr. A. J. P. Martin
October 16 in Charlottesville. "Infrared Spectra at High Temperatures," by Dr. William Klemperer
October 23 in Waynesboro. "What's New in High Temperature Resistant Polymers," by Dr. C. S. Marvel
December 4 in Hopewell. "New Approaches to the Study of Catalysis," by Dr. Paul H. Emmett

By January, plans were well under way for the Southeastern Regional meeting. The program had been outlined and committees announced. Mr. Rupert Hanmer was General Chairman; with Warren E. Weaver, Vice-Chairman in charge of program; Russell Rowlett, Publicity and Public Relations; Lloyd Bird, Finance; Mary E. Kapp, Registration and Information; Claggett Jones, Meeting Places; A. I. Totten, Meals and Social Events; James E. York, Jr., Printing; J. C. Holmes, Plant Tours; John Coli, Housing; Max Pillow, Exhibits; and Mrs. J. Marion Johnson, Ladies Activities. About 800 people registered at the John Marshall, headquarters hotel, for the three-day meeting. The November issue of The Bulletin carried the complete program and abstracts.

The Virginia Section membership list was published in May as the Directory issue of The Bulletin. In this year, The Bulletin became the publication of the "Virginia Section of the American Chemical Society," instead of "Sections".

The University Center in Virginia brought Dr. Hubert N. Alyea of Princeton University as speaker on the Visiting Scholar program.

The Radio and TV Committee presented a series of three programs in cooperation with Station WRVA-TV.

For providing the Section's proportionate share of the costs of ACS's new headquarters building, the Virginia Section received a "Certificate of Appreciation" from the national office.
The Virginia Section, 1948 – 1959 (cont.)

William E. Trout, Jr.
Chairman, 1955

Randolph N. Gladding
Chairman, 1956

Thomas Hervie Christie
Distinguished Service, HS 1956

Robert Hill Kean
Distinguished Service, 1957

William P. Boyer
Chairman, 1958

William "Bill" Guy
Distinguished Service, 1958

Alfred R. Armstrong
Chairman, 1959

Edward S. Harlow
Distinguished Service, 1959
The Virginia Section: 1960 – 1990

Loyal H. Davis  
Chairman, 1960

Rodney Clarence Berry  
Distinguished Service, 1960

Dr. Frederick R. Millhiser  
Chairman, 1961

Dr. Alfred Burger  
Distinguished Service, 1961

Dr. Richard M. Irby, Jr.  
Chairman, 1962

Dr. Allan Gwathmey  
Distinguished Service, 1962

Dr. Warren E. Weaver  
Chairman, 1963

Dr. J. Stanton Pierce  
Distinguished Service, 1963

Dr. Robert E. Lutz  
Distinguished Service, 1964
Prepared by W. Allen Powell

In 1988, Dr. James Beck asked me to bring the written record of the history up to date. With Dr. Beck's help, with encouragement from the 1989 Chairman Eddie Thomas, and with materials received from Drs. Beck and Donald Shilladay, I have prepared the history through 1990, and have compiled the previous historical accounts as published in The Bulletin. This completes the history of the first seventy-five years of the Virginia Section.

Allan Powell
Editor

1960

Chairman                           Loyal H. Davis
Chairman-Elect                   Fred R. Millhiser
Vice-Chairman                   Richard M. Irby, Jr.
Secretary                           Warren E. Weaver
Treasurer                           Lowell V. Heisey

The 1960 program consisted of eleven regular meetings, an awards meeting, and a joint meeting with the Chemistry Section of the Virginia Academy of Science. The meetings were as follows:

January 15, Richmond. Dr. Lyman Craig, Rockefeller Institute, "Separation and Characterization of Organic Substances by Membrane Diffusion"
February 12, Richmond. Dr. Walter H. Hartung, Medical College of Virginia, "Experiences with Palladium Catalysts"
March 4, Charlottesville. Dr. Henry B. Hass, Sugar Research Foundation, "The Current Status of Sucrochemistry"
April 1, Fredericksburg. Mr. Robert M. Miller, Hercules Powder Company, "Packaging and the Food Additives Amendment"
April 30, Williamsburg. Dr. Clark E. Bricker, Princeton University, "Photonometrics Processes"
May 13, Richmond. Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 20, Waynesboro. Dr. Leon A. Wall, National Bureau of Standards, "Thermodynamic Aspects of Polymer Heat Stability"
June 3, Richmond. Social meeting and Awards meeting
September 23, Richmond. Mr. Thomas A. Budne, Consultant, "Laying the
Groundwork for Experimental Activities"
October 28, Hopewell. Dr. Allan G. MacDiarmid, University of Pennsylvania, "Silicon Hydrides and Their Monomeric and Polymeric Organo-Derivatives Containing SiO as Bonds"
November 4, Waynesboro. Dr. J. M. S. Dewar, University of Chicago, "New Heteroaromatic Boron Compounds"
November 11, Richmond. Dr. J. J. Katz, Argonne National Laboratory, "Chemical and Biological Studies with Deuterium"
December 16, Richmond. Dr. John C. Sheehan, Massachusetts Institute of Technology, "Penicillin Synthesis"

Two new standing committees were set up in 1960. The Education Committee was formed to maintain closer liaison with the schools and colleges of this area and to integrate our activities with the overall science activity in the state. A Hospitality Committee was organized to welcome new members of the Section, acquaint them with our various activities, and invite them to participate.

The Television Committee presented two series of programs during 1960, one in the spring and the other in the fall. The general title of the programs was "Careers in Chemistry." The specific subjects presented were: Chemistry in the Home; Chemistry as a Teaching Career; Chemistry in Automobiles; Institutional or Medicinal Chemistry; Fibers for You; Plants Around You; Liquid Life; and, Opportunities for Chemists in Richmond. Drs. Reavis Sproull and Preston Leake were Co-Chairmen of this very active Television Committee.

The Section's Distinguished Service Award was presented to Rodney Clarence Berry. The Award for Excellence in High School Teaching was presented to William Waugh Cash, Jr.

During 1960, fifteen full members and three associate members were added to the Section's rolls.

1961

Chairman                           Fred R. Millhiser
Chairman-Elect                   Richard M. Irby, Jr.
Vice-Chairman                   Warren E. Weaver
Secretary                           W. Allan Powell
Treasurer                           Robert S. Murphy

The 1961 program consisted of ten meetings. As in the past, one of the meetings was a joint meeting with the Chemistry Section of the Virginia Academy of Science and another was a social meeting for the presentation of awards. The meetings were as follows:

January 6, Richmond. Dr. Otto Eisenschimel, Scientific Oil Company, "Chemistry and History as Related to the Civil War"
February 10, Charlottesville. Dr. Jack Bigeleisen, Brookhaven National Laboratory, "Applications of Isotopes to Problems in Reaction Rate Theory"
March 17, Richmond. Dr. Robert Langridge, Massachusetts Institute of Technology,
"The Structure of Deoxyribonucleic Acid (DNA)"
April 29, Williamsburg. Dr. G. M. Kosolapoff, Auburn University, "Chemistry in the U.S.S.R."

May ?, Lexington, joint meeting with the Chemistry Section of the Virginia Academy of Science

June 9, Richmond. Awards meeting

September 22, Richmond. Dr. Marcus E. Hobbs, Duke University, "The Application of Nuclear Magnetic Resonance to Some Chemical Problems"

October 6, Hopewell. Dr. Frank Dachille, Pennsylvania State University, "One Approach to Chemistry at High Temperatures and High Pressures"

November 17, Charlottesville. Dr. E. Earl Royals, Emory University, "Study of Certain Addition and Elimination Reactions in the Terpens Series"

December 15, Richmond. Dr. Alfred Burger, University of Virginia, "Medicinal Chemistry--Its Problems and Hopes"

During 1961, the Section activated a new standing committee on Civil Defense. The Section's Executive Committee voted to contribute $1000 to the Virginia Institute for Scientific Research for their new building.

The Section was saddened by the death of one of its most distinguished members, Dr. Walter Hartung. Dr. Hartung, one of the speakers for our program in 1960, had been nominated for Trustee of the Section in 1961.

The Television Committee was again very active in 1961, presenting seven television programs during the year. The first series was entitled "Frontiers in Chemistry" and consisted of four programs to stimulate interest in chemistry among high School students. The second series, of three programs, was entitled "Miracle Makers" and emphasized the importance of chemistry in our lives.

The Distinguished Service Award for 1961 was presented to Dr. Alfred Burger. The Award for Excellence in High School Teaching was presented to Alan Mandell of the Norfolk School System.

Sixteen new members and five associate members were added to the Section's roll in 1961. A Directory Issue of The Bulletin was published in May 1961, with 926 names listed.

1962

Chairman Richard M. Irby, Jr.
Chairman-Elect Warren E. Weaver
Vice-Chairman W. Allan Powell
Secretary Lowell V. Heisey
Treasurer Charles C. Ketterer

The Virginia Section held thirteen meetings during 1962. Meeting dates, speakers, and subjects were as follows:
January 19, Richmond. Mary L. Willard, "Criminalistics"
February 9, Richmond. Malcolm Dole, "The Radiation Chemistry of Polyethylene"
March 9, Waynesboro. Walter C. McCrone, Jr., "The Polarizing Microscope in Industrial Research"
April 13, Fredericksburg. Donald G. Frier, "Technical Information for Civil Defense"
May 11, Norfolk. Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 18, Charlottesville. W. C. Wildman, "Biosynthesis of Amaryllidaceae Alkaloids"
September 21, Richmond. Herbert McKennis - "Intermediates in Mammalian Metabolism of Nicotine"
October 26, Waynesboro. Louis Gordon, "Precipitation Processes"
November 11, Hopewell. James P. Collman, "Chemistry of Quasi-aromatic Chelates"
December 7, Richmond. David G. Karraker, "Reprocessing Nuclear Fuels"

The Education and Manpower Committee brought a National Science Foundation Visiting Scientist to high schools to the area in 1962. Dr. H. P. Crockford from the University of North Carolina visited Petersburg, Hopewell, Thomas Jefferson, John Marshall, James Blair (Williamsburg), and York High.

The Distinguished Service Award for 1962 was awarded to Dr. Allan T. Gwathmey of the University of Virginia. Mr. Morris S. Tischler, Fairfax High School, received the Distinguished Service Award in High School Teaching.

Applications for eight new members were sent to the National Headquarters. One new Section associate was added to the Section.

1963

Chairman                           Warren E. Weaver
Chairman-Elect                   W. Allan Powell
Vice-Chairman                    Henry A. Hoffman
Secretary                            Russell J. Rowlett, Jr.
Treasurer                           Oscar R. Rodig

The Virginia Section had a total of thirteen meetings during 1963; eleven regular meetings, the joint meeting with the Chemistry Section of the Virginia Academy of Science, and the annual awards meeting. The meeting dates, speakers, and subjects are as follows:
January 18, Richmond.  James P. Whitlow, "Chemical Aspects of Absorption Refrigeration"
February 22, Charlottesville.  Sidney Fox, "From Chemism to Organism"
March 22, Richmond.  Norman Colthrup, "Molecular Vibrations and Infrared Spectroscopy"
April 5, Hopewell.  Harry W. Coover, "Selective Polymerization"
April 19, Charlottesville.  Leon Mandell, "Synthesis of Some Quinolizidine Alkaloids"
April 27, Williamsburg.  Michael Fleischer, "Abundance and Distribution of the Chemical Elements"
May 3, Roanoke.  Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 17, Waynesboro.  Robert J. Silber, "The New Look in Chemical Education"
June 7, Richmond.  Annual Awards Meeting
October 18, Hopewell.  John G. Malm, "Chemistry of Xenon and the Perxenates"
November 8, Waynesboro.  Henry Leidheiser, Jr., "Key Problems and Recent Advances in the Field of Surface Chemistry"
December 6, Charlottesville.  Louis Meites, "Application of Controlled Potential Electrosynthesis in Analysis and Research"

The Radio and Television Committee, chaired by Thelma Heatwole, was very active in 1963. A television series consisting of ten one-half-hour shows was opened on May 11, 1963. Called "Scientific Virginia," it was publicized in TV Guide and local newspapers. The shows were billed as programs designed "to illustrate the role Virginia is filling in modern science; to show what your friends and neighbors in chemical industries are doing; and to familiarize students with career opportunities in the intriguing world of chemistry." The programs were sponsored by local industries. WRVA-TV provided a photographer, a program director, a producer, and the necessary facilities and crew.

The membership of the Section totalled 786 on July 1, 1963. This number entitled the Section to one additional councilor (total of three) as set by the Council in September. A Directory issue of The Bulletin was published in May, 1963.

The Distinguished Service Award for 1963 was presented to Dr. J. Stanton Pierce, Professor of Chemistry at the University of Richmond. The Distinguished Service Award for High School Teaching was awarded to Miss Gertrude Thaxton, Chairman of the Science Department of Bedford High School.

1964

Chairman                           W. Allan Powell
Chairman-Elect                     Henry A. Hoffman
Vice-Chairman                      Russell J. Rowlett, Jr.
The Section had a total of thirteen meetings in 1964. The meeting dates, speakers, and their subjects are as follows:

January 3, Richmond. Dr. George P. Hager, "Retrieval of Organic Compounds"
February 7, Richmond. Dr. S. Young Tyree, "Nonaqueous Donor-Acceptor Studies"
February 28, Richmond. Mr. H. H. Arveson, ACS President, "ACS and You"
March 20, Charlottesville. Dr. Howard W. Bond, "Recent Developments in Cancer Chemotherapy"
April 3, Fredericksburg. Dr. William Bailey, "Organic Monomers"
April 25, Williamsburg. Dr. D. Y. Paschall, "The Virginia Associated Research Center," Gas Chromatography Symposium
May 8, Charlottesville. Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 15, Waynesboro. Dr. Charles Tanford, "Protein Structure and Denaturation"
June 5, Richmond, Awards
September 25, Richmond. Dr. Robert E. Lutz, "Steric Influences on Reactions of Conjugated Systems"
October 30, Charlottesville. Dr. Lester J. Reed, "Macromolecular Organization and Function of the Multienzyme Pyruvate Dehydrogenase Complex"
November 20, Waynesboro. Dr. Donald D. DeFord, "Column Efficiency in Gas Chromatography"

A highlight of the year was the Gas Chromatography Symposium in Williamsburg in April, 1964. The Barber-Colman Company cosponsored the Symposium, which was held at the College of William and Mary. A highlight of the evening program was a talk by Dr. David Paschall, President of William and Mary.

The Virginia Section was one of three sections nominated for the Public Relations Award for 1963. Although the Section did not receive the award, those members whose good work in 1963 led to the nomination are to be commended.

Virginia Section membership totaled 806 on June 30, 1964. In the election for officers for 1965 there were 412 ballots cast, representing 51% of the eligible voters, which was excellent participation on the part of the membership.

Dr. Robert E. Lutz, Professor of Chemistry at the University of Virginia, was awarded the Distinguished Service award at the June awards meeting. Mrs. Elizabeth D. Charlton was awarded the Distinguished Service Award for High School Teaching.

The Virginia Section participated in the National Program of Visiting Scientists for High Schools. Dr. Leonard A. Ford, Chairman of the Division of Science at State College, Mankato, Minnesota was assigned to the area during the school year.
The Virginia Section: 1960 – 1990 (cont.)

Dr. Henry A. Hoffman, Jr.
Chairman, 1965

Dr. Frederick R. Millhiser
Distinguished Service, 1965

Antonio B. Niemeyer, Jr.
Distinguished Service, HS 1965

Dr. Russell J. Rowlett, Jr.
Chairman, 1966

Dr. Winifred Wood Updike
Distinguished Service, 1966

Dr. Ira Amon Updike
Distinguished Service, 1966
The Virginia Section: 1960 – 1990 (cont.)

Dr. Oscar R. Rodig
Chairman, 1967

Dr. Randolph N. Gladding
Distinguished Service, 1967

James E. York, Jr.
Chairman, 1968

Dr. William E. Trout, Jr.
Distinguished Service, 1968

Joseph Charles Holmes
Chairman, 1969

Dr. Mary E. Kapp
Distinguished Service, 1969

Dr. Lynn D. Abbott, Jr.
Distinguished Service, 1970

Dr. Preston H. Leake
Chairman, 1970
1965

Chairman                           Henry A. Hoffman
Chairman-Elect                   Russell J. Rowlett, Jr.
Vice-Chairman                   Oscar R. Rodig, Jr.
Treasurer                           E. Kenneth Brakebill

The Virginia Section held 11 meetings in 1965: six in Richmond, two in Fredericksburg, one in Charlottesville, one in Hopewell, and one in Williamsburg.

January 15, Richmond.  Dr. George Olah, "Recent Investigations in the field of Friedel- Crafts Reactions"
February 12, Richmond.  Dr. John Ross, "Chemical Kinetics and Molecular Beams"
March 12, Richmond.  Joint meeting with the American Institute of Chemists, Dr. David Pearson, "Lasers"
April 9, Fredericksburg.  Dr. Lockhart Rogers, "Selective Adsorption"
April 24, Williamsburg.  Dr. C. C. Price, "The Stereochemistry of Epoxide Polymerization"
May 7, Richmond.  Joint meeting with the Chemistry Section of the Virginia Academy of Science
June 4, Richmond.  Awards meeting
September 24, Richmond.  Dr. Frederick R. Millhiser, "A Story of Spandex Fibers"
October 15, Fredericksburg.  Dr. Lockhart B. Rogers, "Selective Adsorption"
November 5, Charlottesville.  Dr. M. J. Sienbo, "Chemical and Physical Nature of Lunar Surface"
December 10, Hopewell.  Dr. Richard U. Byerrum, "Alkaloid Biosynthesis"

The year's highlight was the 50th Anniversary Meeting in April in Williamsburg, at which the ACS President, Dr. Charles C. Price, was the speaker.

Increased emphasis was given to meetings on college campuses within the Section area. During 1965 meetings were held for the first time at Mary Washington College and at Richmond Professional Institute. Regular meetings were continued at the University of Richmond, the University of Virginia, and William and Mary College.

At its January meeting the Executive Committee voted to allow a half-price subsidy for chemistry students attending the February 12 meeting at the University of Richmond. This was the beginning of a practice which has since been continued for all meetings.

Dr. Russell Rowlett presented a paper on the Virginia Section's First Fifty Years at the History of Chemistry Division of the ACS meeting in Atlantic City on September 14, 1965. The paper was published in the December, 1965 issue of The Bulletin.

The Executive Committee appointed Joseph C. Holmes Treasurer to serve the unexpired term of E. K. Brakebill, who resigned that office when he left the Section. An invitation to hold its 1969 meeting in the Virginia Section was extended to the Southeastern Region Meeting in Memphis
in December, 1965.

The Section membership totaled 823 on June 30, 1965. In the election, 50% of the members voted. A Directory issue of The Bulletin was published in May, 1965.

Dr. Frederick R. Millhiser was the recipient of the Distinguished Service Award for 1965. Mr. Antonio B. Niemeyer, Jr. received the Teacher's Award for Excellence in high school teaching.

The Section was saddened by the death of one of its most dedicated and faithful members. Dr. J. Bernard Robb died on August 30, 1965.

1966

Chairman                           Russell J. Rowlett
Chairman-Elect                   Oscar R. Rodig
Vice-Chairman                   James E. York, Jr.
Secretary                           Joseph C. Holmes
Treasurer                           Preston H. Leake

The Virginia Section held 12 meetings during 1966: five in Richmond, two in Charlottesville, one in Williamsburg, two in Waynesboro, one in Fredericksburg, and the annual joint meeting with the Chemistry Section of the Virginia Academy of Science, which was held in Harrisonburg.

January 7, Richmond.  Dr. Henry M. Neumann, "Electron Transfer Reactions of Complex Ions of Transition Metals"
February 11, Richmond.  Dr. Werner Herz, "Photochemical Studies of Compositae"
March 11, Richmond.  Dr. Clark E. Bricker, "Solar Energy"
April 15, Charlottesville.  Dr. Hans B. Jonassen, "Mossbauer Studies of Inorganic Complexes"
April 30, Williamsburg.  Dr. Ervin R. Van Artsdalen, "Chemistry in Fused Salts"
May 20, Waynesboro.  Dr. V. A. Engelhardt, "Exploratory Fluorine Chemistry and New Polymers"
June 3, Richmond.  Annual awards meeting
September 23, Richmond.  Dr. Ira A. Updike, "Undergraduate Research in a Liberal Arts College"
November 18, Charlottesville.  Dr. Clair J. Collins, "Isotopic Studies of Molecular Rearrangements"
December 6, Mary Washington.  Dr. Kenneth R. Lawless, "Face to Face with Gases on Metals"
In 1966 the By-Laws of the Virginia Section were amended. The name for Section Associates was changed to Section Affiliates. The By-Laws were clarified with respect to councilor election procedure. Councilors and alternate councilors continue to serve three-year terms, but a rotation system was set up so that one councilor and one alternate councilor would be elected each year. There were minor changes in other election procedures and in the duties and make-up of committees.

The Membership Committee processed nine applications for new members.
Dr. Ira A. Updike and Dr. Winifred W. Updike received jointly the Distinguished Service Award for 1966. Mrs. Martha Lipscomb Walsh received the Distinguished Service Award for High School Teaching.

**1967**

Chairman                           Oscar R. Rodig  
Chairman-Elect                   James E. York  
Vice-Chairman                   Joseph C. Holmes  
Secretary                           Preston H. Leake  
Treasurer                          George D. Sands

The Virginia Section held 11 meetings during 1967: five in the Richmond area, two in Charlottesville, one in Waynesboro, one in Fredericksburg, one in Williamsburg, and the joint meeting with the Chemistry Section of the Virginia Academy of Science, which was held in Norfolk.

January 13, Richmond. Dr. Bernard Wunderlich, "A New Look at Polymer Melting"
February 10, Richmond. Dr. Henry S. Frank, "Water Structure: The Present State of the Problem"
March 10, Charlottesville. Dr. Samuel Kirkwood, "The Origin of Life"
April 15, Williamsburg. Dr. Howard V. Malmstadt, "Electronic Instrumentation for Chemists", joint meeting with the Hampton Roads Section
May 5, Norfolk. Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 11, Richmond. Dr. Kenneth S. Rogers, "Long and Short Views of Enzyme Denaturation"
June 2, Richmond. Annual awards meeting
September 22, Richmond. R. N. Gladding
October 13, Waynesboro. Dr. M. C. Day, "Conductance and NMR Studies of Sodium Aluminum Alkyl Salts in Solvents of Low Dielectric Constant"
November 10, Charlottesville. Dr. V. A. Fassel, "Flame Atomic Emission and Absorption Spectroscopy"
December 8, Fredericksburg. Dr. H. H. Jaffe, "Acid-Base and Tautomeric Equilibria in Excited States"
During 1967 the Section held a joint meeting with the Hampton Roads Section. This was very successful and the plan was to continue to have these joint meetings.

The organization of committees for the 1969 Regional Meeting, to be held in Richmond, was begun under the direction of Dr. Helmut Wakeham, General Chairman.

The publication schedule for *The Bulletin* was modified. The new schedule called for three issues a year, supplemented by mailings of the monthly meeting notices to all Section members.

The Distinguished Service Award for 1967 was awarded to Mr. Randolph N. Gladding. Mrs. Leslie Virginia Watkins received The Distinguished Service for High School Teaching.

### 1968

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The Virginia Section held 11 meetings during 1968: six in the Richmond area, one each in Charlottesville, Waynesboro, Fredericksburg, Williamsburg, and the joint meeting with the Chemistry Section of The Virginia Academy of Science in Roanoke.

The meetings for 1968 were as follows:

- **January 12**, Richmond: Dr. J. L. Koenig, "Chain Folding in Semicrystalline Polymers"
- **February 9**, Richmond: Dr. R. R. Holmes, "Chemical Applications of Nuclear Quadrupole"
- **March 22**, Charlottesville: Dr. M. H. Lietzke, "Desalination"
- **April 27**, Williamsburg: Dr. E. C. Ashby, "Grignard Compounds: Composition and Reaction Mechanisms"
- **May 10**, Roanoke: Joint meeting with the Chemistry Section of the Virginia Academy of Science
- **May 17**, Richmond: Engineers Club of Richmond, "Microencapsulation"
- **June 7**, Richmond: Swift Creek Mill Playhouse, Annual awards meeting
- **September ?**, Engineer Club
- **October ?**, Crown and Shield
- **November ?**, Waynesboro
- **December ?**, Fredericksburg

The year 1968 was the fifty-third for the Virginia Section. The Section sponsored an ACS Short Course in March, and an Analog Computer Mini-Course in conjunction with the May meeting. Under a financial grant from Mr. Dewitt Wallace, the Section sponsored Operation Interface '68 in August. Chemistry teachers from 27 colleges and universities were brought to Richmond for a five-
day session in a program designed to further penetrate the academic/industry barrier. Dr. B. L. Stump served as the able director of this project. Preparation for the Southeastern Regional Meeting to be held in Richmond was well on the way in 1968.

The twenty-first Distinguished Service Award was conferred upon Dr. William E. Trout, Jr. Mrs. Mary B. Hayes received the Distinguished Service Award for High School Teaching.

1969

Chairman                Joseph C. Holmes
Chairman-Elect           Preston H. Leake
Vice-Chairman            George D. Sands
Secretary                R. Gerald Bass
Treasurer                Willard W. Harrison

The Virginia Section held 11 meetings during 1969, including the joint meeting with the Virginia Academy of Science in Fredericksburg. The meetings for 1969 were as follows:

January 10, Richmond. Dr. Gabriel Bialy, "Oral Contraception: Development, Present and Future"
February 14, Richmond. Dr. Arthur Rose, "Preparation Gas Chromatography"
March 14, Charlottesville. Dr. Daniel Banes, "Psychedelic Drugs, Ancient and Modern"
April 26, Williamsburg. Dr. Gerhart Friedlander, "Radioactive Clocks"
May ?, Richmond
June 6, Richmond. Swift Creek Playhouse, Awards Meeting
September 19, Richmond
October 17, Waynesboro. Dr. Jacob Kleinberg, "The Stabilization of Uncommon Oxidation States of Metals"
November 21, Charlottesville. Dr. Konrad Bloch
December 12. Dr. Edward L. Haenisch, "What's Ahead in High School Chemistry"

During 1969, Chairman Joseph Holmes moved to Delaware to assume new responsibilities with DuPont. Joe had served the Section well in a number of capacities, leading to Chairman. With his transfer, Dr. Preston Leake assumed the responsibilities of Section Chairman while continuing the functions of Chairman-Elect.

The Southeastern Regional Meeting was held at the Hotel John Marshall in Richmond, November 5-8, 1969. Dr. Helmut Wakeham served well as General Chairman. A total of 1,150 attended the Southeastern Regional Meeting. There were 384 contributed papers and 45 invited papers. A Short Course was also presented on November 9 following the Southeastern Regional Meeting.

Another significant event occurred in 1969 at the October meeting, when Dr. Harold Fisher, Director for Region IV, presented the Virginia Section with the Society's award for "Outstanding
Performance by Local Sections." This award was presented in recognition of outstanding services to its members and for meritorious contributions to the chemical profession and public understanding of the fundamental importance of chemistry to mankind.

The total membership of the Section rose to the record number of 923. Twenty-one new members joined the Section in 1969.

The Distinguished Service Awards for 1969 were presented to Dr. Mary Eugenia Kapp for her outstanding contributions to the advancement of the chemical profession and to Mary Virginia Carson for her outstanding contributions in high school teaching.

Foley Smith, Chairman of the Section in 1946, died on August 9, 1969.

1970

Chairman                           Preston H. Leake
Chairman-Elect                  George D. Sands
Vice-Chairman                   Robert Gerald Bass
Secretary                           D. Scott Sears
Treasurer                           Herndon Jenkins

In 1979 the Virginia Section continued to serve the wide professional interests of its members by holding 11 meetings, including a joint meeting with the Chemistry Section of the Virginia Academy of Science. The program for 1970 was as follows:

January 16, Hopewell. Dr. Murrell Salutsky, "By-Products of the Sea"
February 6, Richmond. Dr. Harold Schonhorn, "Adhesion of Polymers"
March 13, Charlottesville. Dr. John A. Bjorksten, "Some Problems in 25 Years as an Independent Chemist"
April 18, Williamsburg. Joint with Hampton Roads: Afternoon: Dr. H. A. Flaschka, "Marking: Present Status and New Developments" Evening: Dr. Thomas A. Gosink and Mr. Alvin M. Olsen, "Chemical Magic"
May ?. Joint meeting with the Chemistry Section of the Virginia Academy of Science
May 15, Waynesboro. Dr. William B. Parham, "From Carbenes to Metacyclophanes"
June 5, Richmond. Swift Creek Mill Playhouse, Awards Meeting
September 25, Richmond. Dr. Lynn Abbott
October 9, Charlottesville. Dr. Michael M. Martin, "Chemical Ecology of Fungus-Growing Ants"
November 13, Richmond. Dr. Felix Schreiner, "Recent Advances in Noble Gas Chemistry"
December 11, Fredericksburg. Dr. Sidney Siggia, "Organic Functional Group Analysis by Chemical and Instrumental Measures"

During 1970, the 55th year for the Section, the Section continued to grow in membership and to serve its members well. The membership is again a record total of 953. Due to the increasingly
poor employment picture for chemists generally, the Employment Opportunities Committee was formed. A pilot Project SEED Program was begun to make disadvantaged high school students more aware of what is done through chemistry and by chemists. With a grant of $4,000 from Corporation Associates of the ACS and with funds available from having hosted the Southeastern Meeting, it was possible to sponsor “Operation Interface ’70,” a week-long program with about fifty participants. The program was a great success because it was so well organized by Drs. Bill Stump and Don Jenkins.

Dr. Lynn De Forrest Abbott received the twenty-third Distinguished Service Award for outstanding contributions to the advancement of the profession of chemistry. Mr. Robert Winston Saum was presented the Distinguished Service Award for outstanding contributions to high school teaching.

Dr. Robert E. Lutz was nominated by the Section for the Herty Award, which he received in Atlanta on May 9, 1970. He was presented by Dr. Russell Rowlett, Editor of Chemical Abstracts and Chairman of the Virginia Section in 1966.

During 1970, eight of the guest speakers appeared on the Richmond Today show on WTVR. Five half-hour radio shows were recorded and used in the Richmond Round Table program, a program with an audience of about fifteen million listeners. Thelma Heatwole was the able chairman of the Radio-TV Committee for 1970.

As a result of the Operation Interface ’70, a Chemistry-Business undergraduate major was introduced at the University of Richmond: This program was described in C & E News, February 21, 1970. Dr. James E. Worsham, Jr., who was one of the leaders in Operation Interface ’70, designed the new major at the University of Richmond.

1971

Chairman                           Lowell V. Heisey
Chairman-Elect                     Robert Gerald Bass
Vice-Chairman                      Willard W. Harrison
Secretary                          Herndon Jenkins
Treasurer                          Robert T. Kemp

In 1971 the Virginia Section served the professional interests of its members by holding 10 meetings. In addition, the Section participated in joint meetings with the Chemistry Section of the Virginia Academy of Science and with the American Institute of Chemists. The speaker for the joint meeting with the AIC was the Honorable William E. Schuyler, Commissioner of Patents for the United States.

The ten regular meetings for 1971 were as follows:

January 15. Hopewell
February 5, Richmond. Dr. James P. Lodge, "An Atmospheric Scientist Looks at Environmental Pollution"
March 19, Charlottesville. Dr. Jack Preston, "High Temperature Polymers"
April 24, Williamsburg. Dr. Marvin D. Rausch, "Chemistry of Metallocycles"
May 14, Waynesboro. Dr. John Richards, "Biosynthesis of Natural Products"
June 4, Richmond. Awards meeting
September 17, Richmond. Loyal Davis
October 22, Charlottesville. Dr. John K. Taylor, "Trace Analysis by Electrochemical Methods"
November 19, Richmond
December 10, Fredericksburg

During 1971, programs were initiated and some others continued that were designed to stimulate more interest in chemistry and encourage more people to attend the meetings of the Section. The subsidy for college students, initiated some years ago, was provided in 1971. Efforts were made to inform high school teachers of section meetings. An award program was inaugurated to provide an ACS membership to the best chemistry student in each of the fourteen colleges and universities in the Section. A Project SEED Committee was appointed, which presented twelve meetings held in seven public schools to interest disadvantaged students in careers in science. Another Project SEED pilot was initiated to arrange associations between potential scientists of minority race groups and chemists of six industries in the Richmond area.

The By-Laws of the Section were changed to advance the election of Section officers one month, so that Councilors would be elected in time to be eligible for national committee assignments.

The official membership of the Section numbered 943 on July 1, 1971.

Loyal H. Davis received the twenty-fourth Distinguished Service Award for outstanding contributions to the advancement of the profession of chemistry. Margaret Snell Trent was presented the Distinguished Service Award for outstanding contributions in high school science teaching. The Awards were presented at the 3200 Playhouse.

1972

Chairman                           R. Gerald Bass
Chairman-Elect                   Willard W. Harrison
Vice-Chairman                   Herndon Jenkins
Secretary                           Robert T. Kemp
Treasurer                          Charles E. O'Rear

In 1972, nine dinner meetings with technical talks were held, some jointly with other sections and organizations. For the first time in a number of years, the Section enjoyed the hospitality of Virginia State College, and also of Randolph-Macon College. The regular May meeting was not held because of schedule conflicts, thus allowing the Awards meeting to be scheduled in late May rather than at the customary time in June. In addition to the dinner meetings, a joint meeting was held with the Chemistry Section of the Virginia Academy of Science.

The meetings for 1972 were as follows:
January 14, Petersburg. Dr. Arthur J. Condren, "Gamma Irradiation-An Answer to Pollution Control"

February 11, Richmond. Dr. R.S. Dessy "Laboratory Uses of Microcomputers"

March 17, Charlottesville. Dr. J. P. Schroeder, "Liquid Crystals as Solvents"

April 22, Williamsburg. joint with Hampton Roads, Dr. Orville Chapman

May ?, Awards meeting

September, Richmond. Dr. Alfred R. Armstrong

October 20, Charlottesville. Dr. John Burmeister, "Ambidentate Liquids-The Schizophrenics of Coordination Chemistry"

November 17, Ashland. Dr. Joseph D. Park, "Five Decades of Fun Fundamentals with Fluorine"

December 15, Fredericksburg. Dr. Henry Bent

In 1972 the Section continued to provide a subsidy for college students attending the dinner meetings. Fourteen colleges and universities were invited to select for recognition an outstanding student majoring in chemistry, and eight schools responded. These students were awarded membership in ACS and were the Section's guests at the Williamsburg meeting. Work was begun on a program for the professional enrichment of chemists in the Section by the establishment of locally organized and staffed short courses. Funds were appropriated to enable the Education and Manpower Committee to develop such a program.

The official number of members of the Section on July 1, 1972 was 928. Ballots were mailed to 949 members and 37% of the membership voted in the election of officers.

At the May awards meeting, the Distinguished Service Award was presented to Dr. Alfred R. Armstrong. William A. Gilbert was given the Distinguished Service Award in High School Teaching.

Members of the Section were saddened in 1972 by the death of one of its most active and faithful members. Dr. J. Stanton Pierce died on July 22, 1972. He had been active in the American Chemical Society for more than fifty years, and he served as Chairman of the Lexington, Kentucky Section of ACS.

1973

Chairman Willard W. Harrison

Chairman-Elect Herndon Jenkins

Vice-Chairman Robert T. Kemp, Jr.

Secretary Charles E. O'Rear

Treasurer Carl Trindle

Nine dinner meetings were held in 1973. In addition, the usual joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The nine dinner meetings were as follows:
January 19, Petersburg. Dr. Donald F. Hunt, "Chemical Ionization Mass Spectrometry"

February 16, Richmond. Dr. Stewart P. Cram, "Plasma Chromatography"

March 16, Charlottesville. Dr. Derek Davenport, "Chemical Education"

April 28, Williamsburg. Dr. Charles B. Overburger, "Macromolecules", Dr. William J. Hargis, "Chesapeake Bay"

May 18, Richmond. Swift Creek Mill Playhouse, Awards meeting

September 28, Richmond. Dr. Ajay K. Bose, "Lobster Attractants"

October 19, Waynesboro. Dr. Paul N. Rylander, "Catalytic Hydrogenation"

November 16, Ashland. Dr. Richard D. Cadle, "Photochemical Smog"

December 7, Fredericksburg. Halley A. Merrill, "ACS Activities"

As can be seen from the above, the Section offered a wide range of topics that provided a broad overview of modern chemical research. In addition, the Section presented a highly successful short course on gas chromatography. This course was organized by the Education and Manpower Committee under the leadership of its chairman, Dr. Ray Ottenbrite. Instructors from the Philip Morris Research Laboratories were a key factor in the success. ACS memberships were given to nine outstanding undergraduate chemistry majors at colleges and universities in the Section.

In 1973 the Section presented the Distinguished Service Award to James Earl York. John R. Hawse was the recipient of the Distinguished Service Award for High School Teaching.

1974

Chairman                           Herndon Jenkins
Chairman-Elect                   Robert T. Kemp
Vice-Chairman                   Franklin D. Kiser
Secretary                           Carl Trindle
Treasurer                           James Brockington

In 1974 nine dinner meetings were held. In addition, the joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The dinner meetings were as follows:

January 18, Hopewell. Dr. S. Y. Tyree, "The Bankruptcy of Chemical Education"

February 15, Richmond. Dr. John D. Lephart, "Your Data Looks Great, But What Can FTS Do For Me?"

March 15, Charlottesville. Dr. Ernest L. Eliel, "The Information Explosion-What Can Be Done About It"

April 27, Williamsburg. Dr. H. W. Morgan, "Coherent Light and Holography"; Dr. G. A. Soffen, "Project Viking-Mission to Mars"

May 31, Richmond. Swift Creek Playhouse, Awards meeting

September 20, Richmond. Dr. Oscar Rodig, "The Chemistry of Some Enzyme Catalyzed Reactions"
In addition to continuing programs such as the subsidy to college students who attend meetings of the Section and the awarding of ACS memberships to outstanding chemistry majors, new programs were initiated in 1974. At the national level, the SANDS (Student Affiliate No Dues) program was initiated. Under this program, those students who were Student Affiliates during their senior year received six months free dues upon graduation. At the local level, the Virginia Section, under the joint sponsorship of the Section and the Kapp Lecture Fund of Virginia Commonwealth University, offered a short course in the Identification of Organic Compounds.

Membership in the Section increased by approximately 15 persons in 1974. The recipient of the Distinguished Service Award for 1974 was Oscar R. Rodig. Since Dr. Rodig was out of the country at the time of the Award, the Award was accepted for him by Mrs. Rodig. David J. Ruscus was the recipient of the Distinguished Service Award for High School Teaching.

1975

Chairman                           Robert T. Kemp  
Chairman-Elect                   Franklin D. Kiser  
Vice-Chairman                   Carl Trindle  
Secretary                           James Brockington  
Treasurer                           B. L. Mahoney, Jr.

In 1975 there were nine dinner meetings held, and one joint meeting with the Chemistry Section of the Virginia Academy of Science. There were eight regular meetings, four using tour speakers and four with speakers obtained by the Section, as well as the annual awards meeting. The meetings were scheduled as follows:

January 24, Fredericksburg  
February 21, Richmond  
March 21, Charlottesville  
April  
May  
September  
October  
December

The year 1975 was marked by the planning for 1976, the centennial year of the ACS. It was also a year of change for the Section. Chairman Robert Kemp retired in June and moved to Asheville, North Carolina. Chairman-Elect Frank Kiser took over as Chairman. During the summer of 1975, Chairman Kiser invited the officers and councilors to his home on the Corrotoman River for a planning meeting. This was a very pleasant occasion, and a lot was accomplished.

During 1975 the Section continued its subsidy to college students attending the dinner
The Virginia Section: 1960 – 1990 (cont.)

Dr. Lowell V. Heisey
Chairman, 1971

Loyal H. Davis
Distinguished Service, 1971

Dr. Robert Gerald Bass
Chairman, 1972

Alfred R. Armstrong
Distinguished Service, 1972

Williard W. Harrison
Chairman, 1973

James Earl York, Jr.
Distinguished Service, 1973

Don Jenkins
Chairman, 1974

Dr. Oscar Rudolph Rodig
Distinguished Service, 1974
The Virginia Section: 1960 – 1990 (cont.)

Robert T. Kemp, Jr.
Chairman, 1975

Dr. Lowell Vernon Helsey
Distinguished Service, 1975

Franklin D. Kizer
Chairman, 1976

Barbara N. Goehle
Distinguished Service, HS 1976

(All seen here with Frank Kizer, Chairman, in May 1976 at Swift Creek Mill Playhouse)

Dr. Preston H. Leake
Distinguished Service, HS 1976

Marvin Turpin
Fifty year ACS Member, 1976

Dr. Carl Trindle
Chairman, 1977

Dr. William Allan Powell
Distinguished Service, 1977

Dr. William Welstead
Chairman, 1978
meetings. Nine students received ACS memberships, having been selected as outstanding chemistry majors at colleges and universities in the region. The Section gave $1000 to the Science Museum of Virginia. A liquid chromatography short course, organized by the Education and Manpower Committee under the leadership of Dr. Helen Gager, was held at Virginia Commonwealth University on November 22, 1975.

During 1975 there was a net gain in membership of seven. The Section continued its policy, instituted several years ago, of offering a free dinner at the first meeting attended by a new member. The 1975 Distinguished Service Award recipient was Dr. Lowell Heisey. Mrs. Mary E. Ritchie was the recipient of the Distinguished Service Award for outstanding contribution in high school teaching.

1976

Chairman                           Franklin D. Kizer  
Chairman-Elect                  Carl O. Trindle  
Vice-Chairman                   William Welstead  
Secretary                           Ben A. DeGraff  
Treasurer                           Byron F. Price  

In 1976 there were nine dinner meetings and also one joint meeting with the Chemistry Section of the Virginia Academy of Science. The April meeting, held in Williamsburg, was a joint meeting with the Virginia Blue Ridge and Hampton Roads Section. At this April meeting celebrating the centennial, there was a re-enactment of a historical chemistry lecture. In 1976 the average attendance at our monthly meetings was 114. One of the speakers for the year was Dr. Henry Hill, President-Elect of ACS. A highlight was the meeting held at Virginia Commonwealth University, honoring and dedicating a lecture hall to Dr. Mary Kapp, Past Chairman of the Section. The nine dinner meetings were as follows:

January 14, Fredericksburg  
February, Richmond  
March, Charlottesville  
April, Williamsburg  
May, Swift Creek Mill Playhouse, Awards meeting.  
September, Ashland  
October, Richmond  
November, Harrisonburg  
December, Charlottesville

Many of the activities in 1976 had to do with the celebration of the ACS Centennial. Governor Godwin proclaimed "Chemistry Week," April 4-9, 1976. The Centennial flag, seals, and postage stamps were used throughout the year. A history of the Virginia Section, prepared by Dr. William Trout, was placed in the ACS Time Capsule. The Section provided a complimentary copy of the Centennial Book, Taking Things Apart and Putting Things Together, for every secondary school
in the state.

On November 13, 1976, the Education and Manpower Committee cosponsored with VCU a "Workshop on the Use of Chemical Literature." The workshop was taught by Professor G. B. Ramsey. Drs. Helen Gager and Ray Ottenbrite were the co-chairpersons of the committee that organized the workshop.

During 1976, Student Affiliate chapters were chartered at Madison College, Virginia State College, and the University of Richmond.

A new committee established in 1976, was the Safety Committee, with Dr. Bob Atkins as chairman. This committee organized two workshops during 1976, both for high school teachers. The workshops proved to be very successful.

Outstanding chemistry majors at eleven colleges and universities were awarded ACS membership in 1976.

Dr. Preston Leake was the recipient of the Distinguished Service Award for 1976. Mrs. Barbara Goehle received the Distinguished Service Award for High School Teaching.

The Section members were saddened by the death of Dr. Robert E. Lutz in 1976. Dr. Lutz was a past Chairman and the recipient of the Distinguished Service Award in 1964.

1977

Chairman                           Carl Trindle
Chairman-Elect                   William J. Welstead
Vice-Chairman                    Ben A. DeGraff
Secretary                            A. Edwin Martin
Treasurer                            Billy L. Stump

In 1977 there were nine dinner meetings as well as one joint meeting with the Chemistry Section of the Virginia Academy of Science. The dinner meetings were as follows:

January, Fredericksburg. Dr. Jay A. Young, "Clay and Other Materials"
February, Richmond. Dr. Robert A. Benkeser, "The Highly Reactive Allylic-Type Organometallics"
March 17, Petersburg. Dr. Sam P. Perone, "Computerized Pattern Recognition Applied to Chemical Analysis"
April, Williamsburg. Joint with Hampton Roads Section, Dr. Alex Nikon, "Stereochemistry in Carbene Rearrangements," Dr. George Sands, "Project"
May, Richmond. Swift Creek Mill Playhouse, Awards meeting
September, Richmond. Dr. W. Allan Powell, "Jellyfish Toxins"
October, Staunton. Dr. James B. Patrick, "Chemistry, Color, and Cancer"
December, Charlottesville. Dr. Carl O. Trindle, "Spin, Symmetry, and Science in a State of Siege"
In 1977 a "Workshop on Laboratory Safety" was held at Virginia Commonwealth University, during a Student Affiliates Chapter meeting there. Dr. James Rich and Dr. Carl Trindle participated. The safety consultant was Mr. Norman V. Steere.

In 1977 there were 925 members of the Virginia Section.

The Virginia Section brought to a most successful conclusion the Section's ACS Centennial celebration by presenting to the Science Museum of Virginia a check in the amount of $1000 and a copy of *Taking Things Apart and Putting Things Together*. Officers of the Virginia Section attending the presentation at the Science Museum were: Franklin D. Kizer, Chairman of the Section in 1976; Dr. William J. Welstead, Vice-Chairman in 1976; Byron Price, Treasurer in 1976; and Dr. William E. Trout, Chairman of the Centennial/Bicentennial Committee.

Dr. W. Allan Powell was the recipient of the Distinguished Service Award in 1977. The Distinguished Service Award for High School Teaching was presented to Mr. William Henry Seward.

### 1978

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In 1978 nine monthly meetings were held throughout central Virginia, and a wide variety of programs was offered. Two plant tours were well received and very informational. One meeting was held in conjunction with the dedication of the University of Richmond's new science building, the F. D. Gottwald Science Center. A joint meeting was held with the Hampton Roads Section in Williamsburg. A joint meeting was also held with the Chemistry Section of the Virginia Academy of Science. The nine monthly meetings were as follows:

- January 20, Fredericksburg. Dr. Maynard Amerino, "Research on American Wines"
- February 17, Richmond. Tour of Western Electric Company
- March 3, Richmond. Dr. C. C. Gravatt, "Environmental Measurements and Standards at NBS"
- April 22, Williamsburg. Dr. J. R. Huizenga, "Heavy Nuclei Collisions", Mr. Ira Abbott, The NASA Tech House"
- May 20, Richmond. Swift Creek Mill Playhouse, Awards meeting
- September 22, Richmond. Mr. Franklin D. Kiser, “Safety in School Science Laboratories"
- October 13, Ashland. Dr. E. E. Campagne, "Drugs and the Mind"
- November 17, Fredericksburg. Dr. Arthur F. Novak, "The Production of Alcoholic Beverages"
- December 8, Richmond. Tour of A. H. Robins Research Complex
In 1978 a new Student Affiliate Committee was appointed to assist Student Affiliate chapters within the Section's geographical area. New Student Affiliate chapters were chartered at the University of Virginia and at Virginia Union University, making a total of nine chapters in the Section. The VCU chapter was one of 27 in the country honored as outstanding chapters.

An ad hoc By-Laws Committee was appointed to revise and update the Section's By-Laws and job manuals. The Safety Committee participated in a symposium on laboratory safety held at VPI on May 11, 1978, at the VAS meeting. Three members of the committee presented papers. In 1978 there were 939 bona fide members of the Section.

The Distinguished Service Award for 1978 was presented to Franklin D. Kiser. The Distinguished Service Award for Science Teaching was presented to Bernard D. Stearn.

1979

Chairman                           A. Edward Martin  
Chairman-Elect                   Billy L. Stump        
Vice-Chairman                   William F. Kuhn       
Secretary                           Helen Gager         
Treasurer                          James Patrick        

In 1979 eight dinner meetings were held and there was also a joint meeting with the Chemistry Section of the Virginia Academy of Science. The dinner meetings were as follows:

January 19, Petersburg. Dr. J. O. Burke and Mr. Peter Wilson, "Toxic Chemicals in Industrial and Laboratory Environments"
February 16, Richmond. Dr. Sandra Boatman, "Even Viruses Have Viruses"
March 9, Farmville. Dr. Robert Barker, "The Chemistry of Flame Retardants"
April 21, Williamsburg. Dr. Dionis Sienko and Dr. Malcolm Ingram, "Chemical Education in Europe and the United States-Some Comparisons"
September 21. Dr. R. Gerald Bass, "Synthesis and Studies of Some Piperidine Analogs"
October 19, Richmond. Dr. George Schweitzer, "The Hebrew-Christian Tradition and the Origins of Modern Science"
November 16, Fredericksburg. Dr. Gerhard Popp, "The Inside Story of Color Photography"
December 7, Richmond. Tour of Philip Morris Research Center

The Student Affiliate Committee became a permanent committee of the Virginia Section during the 1979 year. An effort to establish an annual meeting of the Student Affiliate chapters resulted in a meeting at James Madison University.

In 1979 arrangements were made with the State Archivist to accept all Virginia Section records, catalog them, and make them available to interested persons. The Executive Committee
approved such action. The records were transferred from the Virginia Institute for Scientific Research to the State Library.

The Spring National ACS Meeting was held in Hawaii. The meeting was well attended by Virginia Section members. However, several members, including the editor of this History, got only as far as Los Angeles because of an airline strike.

The Distinguished Service Award for 1979 was received by Dr. R. Gerald Bass. Mamie Saunders Weaver was the recipient of the Distinguished Service Award for High School Teaching.

The members of the Section were saddened in 1979 by the death of Dr. William E. Trout, Chairman of the Section in 1955 and recipient of the 1968 Distinguished Service Award.

1980

Chairman                           Billy L. Stump
Chairman-Elect                  William F. Kuhn
Vice-Chairman                    Helen M. Gager
Secretary                            James B. Patrick
Treasurer                            David Walsh

In 1980 there were eight dinner meetings of the Section, as well as the usual joint meeting with the Chemistry Section of the Virginia Academy of Science. The April meeting was held in Williamsburg and, as in the past, was a joint meeting with the Hampton Roads Section. The Distinguished Service Awards were presented at a luncheon at that April meeting. The dinner meetings were as follows:

January 18, Ashland. Drs. Preston Leake, Allan Powell, and Oscar Rodig; Virginia Section Councilors, "The ACS--Whereto in the '80's?"
February 15, Richmond. Dr. Richard N. Loeppky, "Nitrosamine Carcinogenesis: Nitrosamine Fragmentation and Amino Nitrosation"
March 14, Farmville. Dr. Charles Overberger, "Recent Research in Macromolecules"
April 19, Williamsburg. Dr. Rod J. O'Connor, "It's Not the Bee's Knees That Get You: The Chemistry of Insect Sting"
May, Charlottesville. Virginia Academy of Science Annual Meeting
September 19, Richmond. Dr. J. Doyle Smith, "A Look at the Chemistry of Chlordecone"
October 17, Staunton. Mr. Robert H. Steinbacher, "Exploring Deep Space"
November 21, Fredericksburg. Dr. Leonard Vance, "Impact on Industrial and Academic Chemists of New Federal and State Environmental Legislation and Regulations"
December 5, Ashland. Dr. Jeffrey I. Seeman, "The Effect of Structure and Conformation on the Chemical Properties of Nicotine and Nicotine Analogues"
The year 1980 was a good year for the Virginia Section. Chairman Billy Stump worked very hard to get The Bulletin back on schedule. Preston Leake and his By-Laws Committee completed their work on the revision of the By-Laws during the year and also revised the job manuals for the various officers.

The Student Affiliate Program in the Virginia Section was also very active in 1980. The chapters at James Madison University and Virginia Commonwealth University received special recognition from National ACS Headquarters for their activities in 1980.

The membership of the Section was 951 in 1980. The Virginia Section was the largest of the 26 sections in the Southeastern Region of ACS, which range in size from 100 to 951.

The 1980 Distinguished Service Award was presented to Dr. Doyle Smith. Mrs. Anne Bryant was the recipient of the Distinguished Service Award for High School Teaching.

The Virginia Section suffered a great loss in 1980. Dr. Helen Gager, Vice-Chairman of the Section, died during the year. Helen made great contributions to chemistry and to the Section, especially through her work as Chairman of the Education and Manpower Committee.

1981

Chairman                           William F. Kuhn
Chairman-Elect                   Trevor B. Hill
Vice-Chairman                    James B. Patrick
Secretary                           Richard A. Kornfeld
Treasurer                           Donald D. Shillady

In 1981 the Section held eight dinner meetings at the usual locations throughout the Section. The April meeting held in Williamsburg was again the Annual Awards meeting. The Williamsburg meeting was again held jointly with the Hampton Roads Section. In May the Section met jointly with the Chemistry Section of the Virginia Academy of Science. The dinner meetings were as follows:

January 23, Petersburg. Dr. Jeanette Grasseli, "Operation Super Sleuth: Analytical Problem Solving"
February 20, Richmond. Dr. Michael H. Thiel, "Polymer Phase Transition Kinetic Studies: Can They Elucidate Mechanism?"
March 27, Charlottesville. Dr. Richard B. Brandt, "D-Lactate Formation in Blood"
April 25, Williamsburg. Dr. Kenneth Klabunde, "Absorbed Species and Electron Transfer Processes on Bionic Metal Oxide Surfaces. Electron Catalysis?"
September 21, Richmond. Dr. Melvyn Schiavelli, "Fifty Years of Vinyl Cations: Fact or Fancy?"
October 23, Charlottesville. Dr. James G. Traynham, "Free Radical Aromatic Substitution Reactions"
November 13, Fredericksburg. Dr. Thomas C. O'Haver, "Microcomputers"
December 4, Richmond. Laboratory Tour of Consolidated Laboratory Services (State Labs)
The year 1981 was a busy one for the Section. The members voted on the changes in the By-Laws that had been approved by the Executive Committee at its May meeting. *The Bulletin*, with Billy Stump as Editor, was published again in a different format, after not being published since 1974. It was brought back as the official news bulletin of the Section in September, 1980.

The Student Affiliates Chapter remained very active in 1981. Dr. Fred Hawkridge, the very effective coordinator of the Affiliate Chapters for a number of years, was away for the year and was replaced by Dr. Brian Moores. At the end of 1981 there were ten affiliate chapters in the Section. In October, 1981 a Roadshow on Chemical Career Insights was held at the University of Virginia, cosponsored by the Younger Chemists Committee of ACS and the Chemistry Department, University of Virginia.

In 1981 Dr. Mary Kapp completed her 40th year as a member of the Executive Committee of the Section.

At its meeting in January 1981, the Executive Committee appointed Dr. Trevor Hill to fill the position of Chairman-Elect for the remainder of 1981; Dr. Helen Gager, Vice-Chairman in 1980, had died.

The recipient of the Distinguished Service Award for 1981 was Dr. Willard Harrison. Mr. Homer Alberti received the Distinguished Service Award for High School Teaching.

In 1981 the William George Guy Lecture Hall, a new wing of the Chemistry Building at William and Mary, was dedicated. Dr. Guy was very active in the Section and served as Chairman in 1951-52. He was the Distinguished Service Award recipient in 1958.

### 1982

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The Virginia Section held eight dinner meetings in 1982. For the first time the Section held its Annual Awards Meeting in September. Although in past years it had become the custom for the Distinguished Award recipient to be the speaker in September, this was the first time that the presentation of the award was made at this meeting. As in the past, the awards to college and university students were presented at the April meeting in Williamsburg. Also, as in the past, this was a joint meeting with the Hampton Roads Section. The joint meeting with the Chemistry Section of the Virginia Academy of Science was held in May. The dinner meetings were as follows:

- **January 15, Ashland.** Dr. Robert J. Huggett, "Kepone in the James River, 1975-1982"
- **February 19, Richmond.** Dr. J. J. Zuckerman, "Inorganic and Organometallic Chemistry; Past, Present and Future: An Historical Perspective"
March 19, Harrisonburg.  Planetarium Show, "The Stellar Thread."
April 16, Williamsburg.  Dr. Adrian H. Duane, "The Rare Earths are Now Medium Rare"
September 21, Richmond.  Dr. Helmut R. R. Wakeham, "Scientific Professionals and Research Leadership"
October 22, Staunton.  Dr. Paul K. Kuroda, "Nuclear Astrochemistry"
November 19, Fredericksburg.  Dr. John J. Eisch, "Novel Plastics from Irrelevant Research: Ziegler's Discovery of Olefin Polymerization"
December 10, Ashland.  Dr. Lidia M. Vallarino, "The Development of the Highly Fluorescent Lanthanide Complexes as Biological Stains"

In 1982 the Section concentrated its efforts, beyond its usual program, on improvement of high school chemistry in the area. The Section contributed $600 to support of the "Armchair Chemistry Workshop" held at the 1981 Science Teachers' Convention. The Education and Career Opportunities Committee made plans in 1982 to adapt the TOPS series of demonstrations and the "Armchair Chemistry" exercises developed by Dr. Alyea to high school needs.

The fourth annual meeting of Student Affiliate Chapters of the Section was held at Mary Washington College in November, 1982. The success was so great that several chapter presidents expressed desire to plan more activities. A student research symposium for Virginia Student Affiliates was proposed. An Affiliate Chapter was formed at Longwood College in 1982 with Dr. Patrick Barber as advisor.

At the April meeting in Williamsburg, ten students from colleges and universities in the Section received College Senior Awards.

In 1982, thanks largely to the heroic efforts of the Membership Committee under the leadership of Frank Kizer, the Virginia Section achieved a membership level that put it into the category of medium large section. The Section had previously been in the medium category.

In 1982, Dr. Helmut R. R. Wakeham was the recipient of the Distinguished Service Award. Mr. Thomas T. Earles, III received the Distinguished Service Award for High School Teaching.

At the National ACS meeting in Kansas City, Missouri, Dr. Russell J. Rowlett, Chairman of the Virginia Section in 1966, was honored on his retirement as Editor of Chemical Abstracts.

The members of the Section were saddened in April 1982 by the sudden death of one of its hard-working and faithful members, Dr. James E. Worsham. Jim was a member of the Education Committee for many years and is remembered especially for his work on Operation Interface.

1983

Chairman                           James B. Patrick
Chairman-Elect                   Richard A. Kornfeld
Vice-Chairman                   Donald D. Shillady
Secretary                           James R. Shanklin, Jr.
Treasurer                           James D. Beck
In 1983 eight dinner meetings were planned; however, only seven were actually held. The February 11 meeting was all set for the University of Richmond, with Dr. Bennie Good of Philip Morris as the speaker. A heavy snowfall made it necessary to cancel the meeting. As in the past, a joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The dinner meetings were as follows:

January 14, Petersburg. Professor Joseph Nagyvuary, "Renaissance Chemistry and Violin Making in Cremona, Italy"

February 11, Richmond. Dr. Bennie W. Good, "Correlating Sensory and Chromatographic Responses" (Cancelled)

March 11, Charlottesville. Professor Michael Brown, "The Molecular Basis of Vision"

April 15, Williamsburg. Tour of the Badische Corporation Fibers Plant

September 23, Richmond. Dr. William J. Welstead, Jr., "Drug Development in the Pharmaceutical Industry"

October 14, Fredericksburg. Dr. Edward Arnett, "The Chiral Universe: From Galaxies to Molecules"

November 18, Staunton. Dr. David Kingston, "Is Colon Cancer a Bacterial Disease: Studies on a Novel Fecal Mutagen"

December, Richmond. Planetarium Show at the Science Museum of Virginia

The attendance at the dinner meetings was excellent this year. Over one hundred attended the Planetarium Show at the Science Museum of Virginia. Those attending this meeting not only saw an excellent Planetarium Show, but also visited the Museum exhibits decorated for the Christmas Season.

At the Virginia Section meeting in Williamsburg, ten students from colleges and universities in the Section were presented "Outstanding Senior Chemistry Major" awards for 1983.

In 1983, Dr. William J. Welstead, Jr. was the recipient of the Distinguished Service Award. Mrs. Mary C. Hobbs was the recipient of the Distinguished Service Award for High School Teaching. The Annual Awards Meeting in September, held at Virginia Commonwealth University, was especially well attended this year.

In 1983, the Science Club at Douglas Freeman High School in Richmond submitted a project to the National ACS Office for the NASA Space Shuttle "Get Away Special" competition. Mr. Homer E. Alberti, the Section's 1981 Distinguished High School Teacher Award winner, was the director of the Science Club's project.

Dr. Brian Moores, Chairman of the Student Affiliate Chapters Committee, announced at the May, 1983 Executive Committee meeting that two of the Section's student affiliate chapters, VCU and UVA, had been recognized as outstanding chapters by the National Office.

At the May, 1983 Executive Committee Meeting, the Committee voted to request that the 1989 Southeastern Regional Meeting be held in Richmond. Dr. Jerry Bass was asked to present the request at the appropriate time. The Section had failed in the attempt to follow up the 1959 and 1969 meetings with a meeting in 1979. It was the hope that the Section would be successful in 1989.
The Section held eight regularly scheduled meetings in 1984. In addition, the usual joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The regular meetings were as follows:

January 13, Ashland. Dr. Daryl L. Faustini, "Aggregation Pheromones, the After-Shave of Flour Beatles"
February 15, Richmond. Dr. Alfred Bader, "The Chemistry in Art"
March 23, Charlottesville. Dr. Jack H. Stocker, "Chemmage, A Compendium of Chemical Trivia"
April 27, Williamsburg. Dr. Terry L. St. Clair, "High Temperature Polymer Development and Application"
September 21, Richmond. Dr. Billy L. Stump, "Chemical Education and the ACS Crisis, Conflict or Confusion"
October 19, Farmville. Mr. Walter Slavin, "Modern Graphite Furnace Atomic Absorption Spectroscopy"
November 16, Fredericksburg. Mr. John C. Pavlik, "Art and Alchemy, the Fisher Art Collection"
December 7, Petersburg. Dr. Cecil Charles, "Nuclear Magnetic in Medical Diagnosis"

In 1984 the Virginia Section held another very successful Operation Interface, designed to foster communication and cooperation between industry and academia. The meeting, held on November 2nd and 3rd, was attended by fifty-nine people. Dr. Donald Shillady, Program Chairman for 1984, was the coordinator for this event.

The "Get-Away-Special" submitted in 1983 by Douglas Freeman High School and the Section was accepted in the space shuttle program. Local companies contributed a total of $5,000 to the project, and the Virginia Section pledged an additional $500.

In 1984, thirteen awards were made to senior chemistry majors in colleges and universities of the Section. Ten of the recipients attended the April meeting in Williamsburg to receive their certificates in person.

Dr. Billy Stump was the recipient of the Distinguished Service Award in 1984. Ms. Linda Kaempf was the recipient of the Distinguished Service Award for High School Teaching.

In 1984, an Ad Hoc Committee on Chemical Education in secondary schools was created, with Dr. James Shanklin and Mary Hobbs appointed as Co-Chairpersons. Several actions were taken to encourage participation in Virginia Section activities by high school teachers, such as
The Virginia Section: 1960 – 1990 (cont.)

Dr. Billy L. Stump
Chairman, 1980
Distinguished Service, 1984

Mr. William F. Kuhn
Chairman, 1981
Distinguished Service, 1985

Dr. Trevor B. Hill
Chairman, 1982
Distinguished Service, 1987

Dr. Helmut Wakeham
Distinguished Service, 1982

Dr. Donald D. Shillady
Chairman, 1985

Dr. James R. Shanklin, Jr.
Chairman, 1986

Dr. James D. Beck
Chairman, 1987

Mr. Charles E. Thomas, Jr.
Chairman, 1988

Dr. Stuart Monroe
Chairman, 1989
The Virginia Section: 1960 – 1990 (cont.)

Dr. J. Samuel Gillespie, Jr.
Distinguished Service, 1989

Dr. Mark C. Sleevi
Chairman, 1990
sending monthly meeting notices, informing teachers of benefits, offering divisional memberships, and formulating a monthly meeting targeted toward high school teachers.

1985

Chairman                           Donald D. Shillady
Chairman-Elect                   James R. Shanklin, Jr.
Vice-Chairman                   James D. Beck
Secretary                           Charles E. Thomas
Treasurer                           Homer Smith

The Section had eight regularly scheduled meetings in 1985, with an average attendance of 89. In addition, the usual joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The eight regular meetings were as follows:

January 11, Ashland.  Dr. Ray Ottenbrite, "Polymers in Biological Systems"
February 21, Richmond.  Dr. James Ibers, "Inorganic Models for Biological Systems"
April 26, Williamsburg.  Dr. Isidora Adler, "Geochemical Exploration of the Planets"
September 20, Richmond.  Mr. William Kuhn, "Applications of New Technology in Tobacco Research"
October 18, Bridgewater.  Dr. Warren Crummett, "The Dioxin Question from a Chemist's Standpoint"
November 22, Fredericksburg.  Dr. David Harpp, "Classroom Demonstrations"
December 13, Ashland.  Mr. Ken Wilson, "Comet Halley: Once in a Lifetime"

During 1985 our revised Section By-Laws were finally approved by the National Headquarters of the American Chemistry Society. This concluded a long process, and thanks were well deserved by Dr. Preston Leake and his Committee for a job well done.

The Virginia Section participated in the International Olympiad tryouts for high school students. Over sixty students participated in examinations held at three sites in the Section.

The Distinguished Service Award was made to Mr. William Kuhn for outstanding service to our Section and to the Society. The Distinguished Service Award for High School Teaching was presented to Miss Pauline Fones.

The Student Affiliate Chapters held a group meeting at Mary Washington College in November. The Mary Washington Chapter received honorable mention in the national award program for outstanding activities of affiliates.

Dr. Donald Shillady, Section Chairman during 1985, attended a presentation of the Pimentel Report, "Opportunities in Chemistry", at the National Academy of Sciences.

The Ad Hoc Committee for Northern Virginia was active in 1985. Coupled with the new connections with the Washington, D. C. Section, the committee’s activities helped greatly in
planning events for the northern Virginia portion of our Section.

The Education and Career Opportunities Committee continued its good work during 1985 under the able leadership of Dr. William Welstead. This committee continued to assist the Douglas Freeman Science Club with their "Get Away Special" project. Mr. Homer Alberti, the Science Club advisor and winner of the Section's Distinguished Service Award for High School Teaching in 1981, has contributed greatly to the project.

1986

Chairman                James R. Shanklin, Jr.
Chairman-Elect          James D. Beck
Vice-Chairman           Charles E. Thomas
Secretary               Stuart Monroe
Treasurer               Mark Sleevi

The Section had eight regularly scheduled meetings in 1986. In addition, the usual joint meeting was held with the Chemistry Section of the Virginia Academy of Science. The Virginia Academy of Science meeting was held at James Madison University May 13-16, 1986. The eight regular meetings of the Section were as follows:

January
February
March 21, Charlottesville.  Dr. Ralph Allen, "Cracked Pot Chemistry.  A Geochemist Uncovers the Secrets of an Ancient Technology"
April 25, Williamsburg.  Dr. James Wightman, "Surface Chemistry"
September 26, Richmond. Annual Awards Meeting
October 24, Staunton.  Dr. John W. Moore, "The Electronic Chemistry Set: Teaching with Computers"
November 21, Fredericksburg. Dr. Clifton E. Meloan, "Criminalistics-The Application of Chemistry to Apprehending Criminals"
December 12, Richmond. Science Museum of Virginia: Omnimax Films, "On the Wing" and "Joy to the World"

The year 1986 was a very busy one for the Section. Several programs were undertaken to attract high school chemistry teachers to the Section's monthly meetings. The seminar presented by Dr. John Moore, "The Electronic Chemistry Set: Teaching with Computers," was selected to attract high school teachers. Prior to the seminar, Dr. Moore conducted a two-hour workshop on computers for fifteen high school chemistry teachers.

In addition to efforts to attract high school chemistry teachers to monthly meetings, several programs were undertaken to promote chemistry at the secondary school level. For the second year the Section participated in the Chemistry Olympiad. Fifty-six high school students took the Olympiad exam, and the Section's six finalists were honored at the April meeting at the College of William and
Mary. At that meeting, the outstanding senior college chemistry majors were honored. Only eleven of the Section's schools decided to give the award in 1986.

A fund of $1000 was established to promote and encourage the teaching of chemistry at the high school level in the Virginia Section. The Section gave $300 to the Workshop for Teachers of High School Chemistry held at Hollins College in June.

A meeting of the Student Affiliate Chapters in the Section was held at Mary Baldwin College in October. The Student Affiliate Chapter at Mary Washington College was named an outstanding chapter by the National ACS office. The Virginia Section gave $800 to the Student Affiliate Chapter at Virginia Commonwealth University. This money was given to support the 19th Annual Southeastern Regional Meeting of ACS Student Affiliate Chapters held at VCU in 1987.

The Government Relations Committee was established in 1986, with Drs. Sheryl Baldwin and Gordon Melson as co-chairpersons. The committee distributed copies of the Pimental Report, "Opportunities in Chemistry," to the U.S. Congressman from the Virginia Section. The Committee also met with Governor Gerald Baliles and Secretary John W. Daniel, Department of Natural Resources, and presented them with copies of the Pimental Report.

The Publicity and Public Relations Committee was established in 1986 with Dr. Don Shillady as its chairman.

A vendor's show was held at the VCU meeting. Thirteen vendors and several manufacturer's representatives participated in the show. The $780 earned from the show was given to the VCU Student Affiliate Chapter to support a Regional Affiliate meeting in 1987.

The Section's Distinguished Service Award for 1986 was presented to Dr. Carl Lunsford. Dr. Richard Miller received the Distinguished Service Award for High School Teaching.

1987

Chairman                           James D. Beck
Chairman-Elect                  Charles E. Thomas
Vice-Chairman                   Stuart Monroe
Secretary                           Mark Sleevi
Treasurer                          Joseph Topich

Eight regular meetings were held in 1987. In addition, the joint meeting was held with the Chemistry Section of the Virginia Academy of Science at Old Dominion, May 21-22. The regular meetings were as follows:

January 16, Ashland. Dr. Henry H. Bauer, "Myths and Truths About the Loch Ness Monster"
February 20, Richmond. Dr. Jeffery Siegel, "Techniques of Image Processing and Analysis"
March 20, Charlottesville. "Quality Assurance of Chemical Measurements"
April 24, Williamsburg. Sr. Mary E. Murphy, "The Moon and Beyond"
September 25, Richmond. Dr. Trevor Hill, Distinguished Service Award
October 23, Lexington. Dr. Dorit Noether, "Star Wars, the Technical Aspects"
November 12 Waynesboro. Dr. Stanley Proctor, "The Profession"
December 11, Petersburg. Mrs. Mary Hobbs, "What Are We Going to Blow Up Today?"

The highlights of 1987, reported by Chairman Jim Beck, follow. Three informal sessions were held prior to regular meetings. Dr. Terrence Russell, Manager of Professional Relations for the ACS; Dr. Donna Burch, Director of the Hollins College Dreyfus Workshop for High School Chemistry Teachers; and Dr. William Rademaker, ChemCom Coordinator for Chesterfield County Schools, were discussion leaders for these sessions.

A Poster Session was held as part of the April meeting at the College of William and Mary. Twenty-six students from five colleges and universities in the Virginia Section presented a total of 21 research papers in poster format.

The Distinguished Service Award was presented to Dr. Trevor Hill of the College of William and Mary. Mr. Marvin Curry, chemistry teacher at Albemarle High School, received the Distinguished Service Award for High School Teaching. Eleven outstanding senior students from colleges and universities in the Section were given certificates of recognition and a year's membership in the ACS. Six Chemistry Olympiad finalists from the Section and their teacher sponsors were recognized at the April meeting.

A total of 93 students (an increase of 66 percent over 1986) took the Olympiad Examination at five sites in the Section. The six finalists went on to the national competition. They and their faculty sponsors were guests of the Section at the April meeting. They were presented special certificates and copies of the ACS publication, What's Happening in Chemistry.

The Section's second Vendors Show, held as part of the Awards meeting at VCU on September 25, was very successful, with 23 companies represented. Comments from vendors and members indicated that the format and arrangements were excellent. A total of $1,190 was realized from the show. The Student Affiliate Chapter from VCU operated a booth for National Chemistry Day. A selection of ACS publications and a table of free materials were available at the show.

The Student Affiliate Chapter at Virginia Commonwealth University was named one of the outstanding chapters in the nation. The chapter also received an Innovative Grant Award from the ACS and hosted the 19th Annual Southeastern Regional Conference of Undergraduate Chemists in March. Over 100 persons attended, with nearly 70 papers being presented; 32 of these papers were presented by students from schools in the Virginia Section. The Section provided $800 from the 1986 Vendors Show revenues to support the Conference. Several student affiliate chapters prepared displays and held special events as part of the National Chemistry Day celebration. A number of affiliate members participated in the Poster Session at the April meeting. Efforts have been undertaken to send copies of The Bulletin to affiliate chapters.

The Section contributed $500 to support the Dreyfus Regional Workshop on High School Chemistry Teaching which was held at Hollins College during the summer; three teachers from the Virginia Section attended. Informal sessions for high school teachers were held at the March and December meetings of the Section. The main speaker at the December meeting was Mrs. Mary Hobbs, chemistry teacher at Lee-Davis High School. Seventeen high school teachers attended the December meeting. The Vendors Show and National Chemistry Day booth at the September
meeting attracted eighteen high school teachers.

The Virginia Section's activities relating to National Chemistry Day were many and varied. A crystal growing contest was held in conjunction with the Science Museum of Virginia. A day of demonstrations and displays was also held at the Museum. A joint meeting with the A.I.Ch.E. was held. The Governor and the mayors of seven cities in the Section proclaimed November 6 as Chemistry Day. Companies and colleges held open houses, conducted tours, sponsored talks, held special meetings, had displays, etc. to celebrate National Chemistry Day. Many high school students and teachers also participated in NCD activities. A large quantity of resource material was distributed to high school teachers, libraries, students, and the general public. The Section received $500 from Albright & Wilson, $500 from Du Pont, 100lbs of alum from Textile Chemicals Company, and three cases of vials from VWR Scientific in support of our Chemistry Day activities.

1988

Chairman             Charles E. (Eddie) Thomas
Chairman-Elect       Stuart Monroe
Vice-Chairman        Mark Sleevi
Secretary            Roy Gratz
Treasurer            Sheryl Baldwin

The Virginia Section held eight regular meetings in 1988 and, in addition, held a joint meeting with the Chemistry Section of the Virginia Academy of Science on May 24-27 at the University of Virginia. The regular meetings were as follows:

January 22. Ashland, Dr. Lori M. Ramonas, "Science, Politics and Life on Capitol Hill: Participating in the Political Process"
February 19, Farmville. Dr. Brian W. Moores, "A Chemist Looks at the Shroud of Turin"
March 18, Richmond. Dr. Glenn Crosby, "All Things Great and Small: Avogadro and the Concept of the Mole"
April 22, Charlottesville. Mr. A. B. Krisciunas, "B.T.U.'s-Now You Have'em, Soon You Mightn't"
September 23, Richmond. Dr. James Shanklin, Jr., "Serendipity in Drug Discovery"
October 28, Winchester. Dr. Lawrence F. Dahl, "Symmetry and its Importance in Art and Science"
November 18, Fredericksburg. Dr. Thomas H. Whitesides, "The Inside Story of Color Photography"
December 9, Hanover. Barksdale Tavern, "A Child's Christmas in Wales"

In March, the Virginia Section was pleased to be able to participate in the events marking the inauguration of the W. Allan Powell Lectureship. The faculty at the University of Richmond did an outstanding job and are to be commended.

In April, the high school student and college student awards were presented at the University
of Virginia. This meeting also hosted the Second Annual Virginia Section Poster Session. This was the first year for these events at UVA. Nineteen poster presentations were given by students from colleges and universities in the Virginia Section. The ten Section winners in the Chemistry Olympiad testing were honored along with their teacher sponsors. Twelve college senior chemistry majors were awarded one-year memberships in the American Chemical Society.

This year 160 students signed up to take the Chemistry Olympiad Local Exam and 110 students took the exam on March 26th. They represented 27 high schools throughout the Virginia Section. The top ten students were recognized at the April Section meeting and the top six students from the Section went on to take the National Chemistry Olympiad Exam on April 23rd. This year the Virginia Section also was allowed to nominate up to 5 students for the Virginia Blue Ridge Section, since that Section does not participate in the Olympiad. One student from the Virginia Blue Ridge Section took the National Exam.

Eleven colleges and universities in the Virginia Section nominated twelve students to receive the Outstanding Senior Chemistry Major Award. The awardees were presented with certificates at the April meeting at UVA. These students were also given free one-year memberships in the ACS. At the September meeting, Dr. James Shanklin received the Distinguished Service Award and Dr. William Rademaker received the Distinguished Service Award for High School Teaching. In addition to these annual awards the Virginia Section has a long-standing tradition of presenting a sterling silver Jefferson cup to the speakers at the Section meetings. The cup is engraved with the speaker’s name and the date of his presentation to the section.

The Virginia Section had a banner year in being recognized by the National ACS. In January we were notified that the Virginia Section had more new members for 1988 than any other Section. We were also recognized for our 1987 efforts for National Chemistry Day. At the ACS National meeting in Los Angeles, California, we were nominated as one of the outstanding Sections for 1987 in the medium-large category. Most recently, the Local Section Activities office had praised our meeting program for having such events as our Vendors Show and the Spring Poster Session.

At the 1988 Southeastern Regional Meeting (SERMACS), The Virginia Section made a bid to host the 1991 SERMACS. Through the efforts of Dr. R. Gerald. Bass, this bid was successful. This is the first SERMACS hosted in Richmond since 1969.

A check for $400 was presented to Dr. Donna Burch for support of the Dreyfus Regional Workshop for high school teachers. A display of ACS publications was set up at a Science Fair at John F. Kennedy High School. Tours of the Philip Morris Research Center were conducted for a number of high school chemistry classes from the Richmond area.

The Virginia Section Student Affiliate chapters were the local college contacts for submission of papers for the April Poster Session. A total of nineteen papers were presented at this meeting; many were from student affiliates. At the seven Section meetings at area colleges and universities, the local student affiliate chapters helped in organizing and scheduling the meetings. The local chapters managed the receptions preceding the dinners and often provided the refreshments as well. At each meeting, the presiding president of the local affiliate chapter was recognized, and he or she introduced the speaker.

The Section held its Third Annual Vendors Show at Virginia Commonwealth University in September. Over 160 people attended the show and 130 attended the dinner and award lecture that followed the show. Nineteen companies each paid $60 to reserve space at the show; all but
three of these were present at the exhibition.

The Virginia Section Government Relations Committee met with Dr. Donald Finley, Secretary of Education for Virginia. A copy of the Pimentel report was presented to him at that time. The meeting was covered briefly in the Richmond Times Dispatch. Dr. Finley stated that there was a four percent decline in student enrollment for the physical sciences, in contrast to higher enrollments in engineering and other sciences.

1989

Chairman                           Stuart Monroe
Chairman-Elect                   Mark Sleevi
Vice-Chairman                    Joseph Crockett
Secretary                            Sheryl Baldwin
Treasurer                            John Happ

The Section held seven regular meetings in 1989, rather than the usual eight. The February meeting, scheduled for the University of Richmond with Dr. Robert J. Huggett as the speaker, had to be cancelled because of a heavy snowstorm. The usual joint meeting with the Chemistry Section of the Virginia Academy of Science was held in May. The seven regular programs were as follows:

January 13, Ashland.  Dr. Elizabeth M. Hairfield and Mr. Hampton H. Hairfield, Jr., "On The Incense Trail"
March 17, Williamsburg.  Dr. Foil A. Miller, "Great Mistakes in Science"
April 28, Charlottesville.  Dr. Donald T. Sawyer, "The Biological Chemistry of Dioxygen: A Unique Natural Product"
September 22, Richmond.  Dr. J. Samuel Gillespie, Jr., Distinguished Service Award
October 20, Harrisonburg.  Dr. John J. Powers, "Correlating Chemical and Sensory Patterns"
November 17, Fredericksburg.  Dr. Daniel T. Longone, "The History of Wine and the Vine in America"
December 15, Richmond.  Tour of Philip Morris Research Center: Computers in Chemistry

On September 12, 1989, at the National ACS Meeting in Miami Beach, the Virginia Section received an award for being the Outstanding Section in the medium-large category. The award was presented by ACS President Clayton Callis. Sheryl Baldwin, Secretary of The Virginia Section, represented the Section at the Local Section Officers Meeting at which the awards were presented. Also in attendance at that meeting were Allan Powell, Councilor, Oscar Rodig, Councilor, and Jerry Bass, Alternate Councilor.

The Virginia Section was selected for this Award on the basis of its 1988 activities. The sections were judged on the basis of their annual reports summarizing the year's activities. Many individuals in the Virginia Section made tremendous contributions for National Chemistry Day, The Bulletin, the Chemistry Olympiad, the Vendor’s Show, and the Spring Poster Session. The 1988
Chairman, Eddie Thomas, deserves special recognition for the excellent year under his Chairmanship and for preparing such an excellent annual report. Dr. William Neville, Region IV Director, presented the Award to the entire Section on September 22 at our Awards Meeting.

The University of Virginia in Charlottesville was the site of the April meeting. The evening began with a poster session at which 19 undergraduate students presented their research. Seven high school finalists in the area Chemistry Olympiad competition and their teachers were recognized and presented with certificates. Twelve senior chemistry majors were given certificates and awarded free one-year memberships in A.C.S. The annual Awards Meeting and Vendor's Show in September were also held at Virginia Commonwealth University. Twelve vendors paid $60 each to display their wares, and an additional $145 was donated to support the social hour. Vendor representatives were guests of the Section, along with the award recipients for the awards banquet.

The Distinguished Service Award was presented to Dr. Samuel Gillispie. The Distinguished Service Award for High School Chemistry Teaching was presented to David E. Lawrence.

The October meeting at James Madison University in Harrisonburg was preceded by a day-long meeting of student affiliate chapters within the Section. The American Chemical Society tour speaker, Dr. John Powers, talked on "Correlating Chemical and Sensory Patterns."

National Chemistry Week activities in the Virginia Section were judged to be highly successful, as indicated by reports from participants and responses from visit recipients (elementary school teachers and students). Approximately 3,500 elementary students in over 100 classrooms and 50 schools were visited by section members, and 100 subscriptions to Wonderscience were awarded. The cost to the section was $800.

Invitations to the local Chemistry Olympiad Examination were mailed to over 200 high schools in the Virginia Section. Twenty-four schools nominated 214 students, and 131 students from 21 schools actually took the exam on April 8, 1989, at five locations. Seven students qualified to take the national exam. Of the six who did, three received high honors, 92nd, 90th and 90th percentile, and the three others received honors, 75th, 70th and 65th percentile. The Virginia Section continues to have more students competing at the local level than is the average, which is 77 students for the 58 sections that reported their results to the National A.C.S office.

The National Office notified the Virginia Section that it was ranked number one for local section membership commissions for 1988, the third year that this honor has been achieved by the section.

1990

Chairman                           Mark Sleevi
Chairman-Elect                   Joseph Crockett
Vice-Chairman                   Sheryl Baldwin
Secretary                           Patrick Barber
Treasurer                           Philip Burkes

In 1990, eight regular programs were held in addition to the joint meeting with the Chemistry Section of the Virginia Academy of Science in May. The eight regular meetings were as follows:
The year 1990 was an important and extremely interesting year for the Section. Dr. Mark Sleevi, who was elected Chairman for 1990 and had served a portion of his year, moved from the Section. Dr. Joseph Crockett, Chairman-Elect for 1990, assumed the responsibilities as Chairman for the remainder of the year.

College seniors who were named as outstanding chemistry majors at their respective schools were honored at the April meeting in Charlottesville. The Virginia Section also recognized outstanding high school chemistry students at this April meeting. The high school students had qualified to take the National Chemistry Olympiad examination by their performances on the local section test.

The Distinguished Service Award for 1990 was presented to Dr. James Patrick. Mr. Eugene Shepherd received the Distinguished Service Award for High School Teaching. In 1990 the Section also presented an award, for the first time, to a middle school teacher, Jeannie Shepherd.

In 1990 extensive planning was done for the SERMACS meeting to be hosted by the Section in 1991. The co-chairmen for this meeting were Jerry Bass and Bill Kuhn. Under the able leadership of the co-chairmen preparations were going well by the end of 1990. Finances were in good shape, thanks largely to the major contribution from Philip Morris presented at the December meeting. Other contributions had been received at the end of 1990 from American Tobacco, Burroughs Welcome, Glaxo Research, and Ethyl.

In 1990 the Virginia Section celebrated its 75th anniversary. At the December meeting there was a special celebration featuring a talk by Dr. Russell Rowlett, Chairman of the Virginia Section in 1966 and Editor of Chemical Abstracts Service from 1967 until his retirement in 1982. In his talk Dr. Rowlett highlighted the events in the formation and development of the Virginia Section during its first seventy-five years. He also traced the development of Chemistry in Virginia and pointed out the contributions of the Virginia Section to this development. Dr. Rowlett also highlighted the contribution of the Section to science education in the state.

In recognition of his outstanding service to the Section, to the American Chemical Society, and to the field of Chemistry, Dr. Rowlett was presented a Special Distinguished Service Award.

[A rather abrupt ending. It would be nice to have a concluding paragraph.]
# APPENDIX

## Distinguished Service Award Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient(s)</th>
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<tbody>
<tr>
<td>1949</td>
<td>Sidney S. Negus*&lt;br&gt;Mrs. Thelma C. Heatwole</td>
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<tr>
<td>1950</td>
<td>Garnett Ryland*&lt;br&gt;William I. Nickels, Jr.</td>
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<tr>
<td>1951</td>
<td>Edwin Cox*</td>
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<td>1952</td>
<td>Hiram Rupert Hanmer*&lt;br&gt;Miss Vada C. Miller</td>
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<td>1953</td>
<td>Lloyd C. Bird&lt;br&gt;Miss Susiz V. Floyd</td>
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<tr>
<td>1954</td>
<td>Eugene D. Crittenden&lt;br&gt;Herbert Felix Sanders</td>
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<td>1955</td>
<td>John Campbell Forbes*&lt;br&gt;Thomas H. Christie</td>
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<tr>
<td>1956</td>
<td>John H. Yoe*&lt;br&gt;Thomas H. Christie</td>
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<tr>
<td>1957</td>
<td>Robert H. Kean&lt;br&gt;Robert H. Horn</td>
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<tr>
<td>1958</td>
<td>William G. Guy*&lt;br&gt;Mrs. Vera B. Remsburg</td>
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<tr>
<td>1959</td>
<td>Edward S. Harlow&lt;br&gt;Miss Virginia Celeste Ellett</td>
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<tr>
<td>1960</td>
<td>Rodney C. Berry*&lt;br&gt;William Waugh Cash, Jr.*</td>
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<td>1961</td>
<td>Alfred Burger&lt;br&gt;Allen Mandell</td>
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<tr>
<td>1964</td>
<td>Robert E. Lutz*&lt;br&gt;Mrs. Elizabeth D. Charlton</td>
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<tr>
<td>1965</td>
<td>Fred R. Millhiser&lt;br&gt;Antonio B. Niemeyer, Jr.</td>
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<tr>
<td>1966</td>
<td>Ira A. Updike*&lt;br&gt;Winifred Wood Updike*&lt;br&gt;Mrs. Martha L. Walsh</td>
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<td>1967</td>
<td>Randolph N. Gladding&lt;br&gt;Miss Leslie Virginia Watkins</td>
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<td>1968</td>
<td>William E. Trout, Jr.&lt;br&gt;Mrs. Mary B. Hayes</td>
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<td>1969</td>
<td>Mary Eugenia Kapp&lt;br&gt;Mary Virginia Carson</td>
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<td>1970</td>
<td>Lynn D. Abbott&lt;br&gt;Robert R. Saum</td>
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<td>1971</td>
<td>Loyal H. Davis&lt;br&gt;Margaret S Trent</td>
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<td>1972</td>
<td>Alfred R. Armstrong&lt;br&gt;William A. Gilbert</td>
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<td>1973</td>
<td>James E. York, Jr.&lt;br&gt;John R. Hawse</td>
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<td>1974</td>
<td>Oscar R. Rodig&lt;br&gt;David J. Ruscus</td>
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<tr>
<td>1975</td>
<td>Lowell V. Heisey&lt;br&gt;Mary E. Ritchie</td>
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<tr>
<td>Year</td>
<td>Name(s)</td>
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<tr>
<td>------</td>
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<tr>
<td>1963</td>
<td>J. Stanton Pierce*&lt;br&gt;Mrs. Gertrude F. Thaxton</td>
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<tr>
<td>1978</td>
<td>Franklin D. Kiser&lt;br&gt;Bernard D. Stearn</td>
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<tr>
<td>1979</td>
<td>R. Gerald Bass&lt;br&gt;Mamie D. Weaver</td>
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<tr>
<td>1980</td>
<td>Doyle Smith&lt;br&gt;Anne Bryant</td>
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<tr>
<td>1982</td>
<td>Helmut R.R. Wakeham&lt;br&gt;Thomas T. Earles, III</td>
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<tr>
<td>1984</td>
<td>Billy L. Stump&lt;br&gt;Linda Kaempt</td>
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PAST CHAIRMEN
Virginia Chemist Club

1907 Dr. E.W. Magruder*
1908 Dr. Eugene C. Bingham
1909 Dr. F.B. Carpenter*
1910 Dean W.F. Rudd*
1911 Dr. A.M. Forrester*
1912 Dr. Andrew Robertson*
1913 Dr. C.M. Bradbury*
1914 Dr. E.W. Magruder*

Virginia Section, A.C.S.

1915 Mr. J.B. Robb
1916 Mr. R.B. Arnold*
1917 Dr. A. Holmes Allen*
1918 Dr. Garnett Ryland*
1919 Dr. E.C.L. Miller*
1920 Major W. Catesby Jones*
1921 Dr. Graham Edgar*
1922 Dean W.F. Rudd*
1923
1924 Dr. Hall Canter*
1925 Mr. H.K. McConnell*
1926 Mr. William Cliff*
1927 Dr. Sidney S. Negus*
1928 Dr. R.F. McCracken
1929 Gen. Edwin "Pete" Cox*
1930 Dr. W.G. Crockett*
1931 Mr. W. J. Nissley
1932 Dr. William R. Cornthwaite
1933 Dr. Lauren B. Hitchcock
1934 Mr. C. Braxton Valentine
1935 Mr. Thomas A. Balthis
1936 Dr. John H. Yoe*
1937 Dr. Ira A. Updike*
1938 Dr. John C. Forbes
1939 Mr. Rodney C. Berry*
1940 Mr. William Ralston*
1941 Dr. Allan Berne-Allen
1942 Mr. Hiram R. Hanmer*
1943 Dr. James W. Cole
1944 Dr. Robert H. Kean
1945 Dr. William R. Harlan
1946 Mr. Foley F. Smith*
1947 Mr. Clifford M. Smith
1948 Mr. Edward S. Harlow
1949 Dr. Robert E. Lutz*
1950 Dr. L.D. Abbott
1951 Dr. William G. Guy*
1952 Dr. Mary E. Kapp*
1953-4 Mr. Clinton W. Baber
1955 Dr. William E. Trout, Jr.*
1956 Mr. Randolph N. Gladding*
1957 Dr. John G. Coli, Jr.
1958 Dr. William P. Boyer
1959 Dr. Alfred R. Armstrong
1960 Mr. Loyal H. Davis
1961 Dr. Fred R. Millhiser
1962 Dr. Richard I. Irby
1963 Dr. Warren E. Weaver
1964 Dr. W. Allan Powell
1965 Dr. Henry A. Hoffman
1966 Dr. Russell J. Rowlett, Jr.
1967 Dr. Oscar R. Rodig*
1968 Mr. James E. York, Jr.
1969 Mr. Joseph C. Holmes
1970 Dr. Preston H. Leake
1971 Dr. Lowell V. Heisey
1972 Dr. R. Gerald Bass
1973 Dr. Willard W. Harrison
1974 Dr. Herndon Jenkins
1975 Dr. Robert T. Kemp
1976 Mr. Franklin D. Kiser
1977 Dr. Carl Trindle
1978 Dr. William J. Welstead
1979 Dr. A. Edwin Martin
1980 Dr. Billy L. Stump
1981 Mr. William F. Kuhn
1982  Dr. Trevor B. Hill
1983  Dr. James B. Patrick
1984  Dr. Richard A. Kornfeld
1985  Dr. Donald D. Shillady
1986  Dr. James R. Shanklin, Jr.
1987  Dr. James D. Beck
1988  Mr. Charles E. (Eddie) Thomas
1989  Dr. Stuart Monroe
1990  Dr. Mark Sleevi; Joseph Crockett

* Deceased
Dr. W. Allan Powell was a member of the faculty of the University of Richmond for 34 years. For 23 years, he was Chairman of the Chemistry Department, and served as premedical and pre-dental advisor from 1959 to 1986. He has been a very important part of the scientific community in Virginia, serving both on a national and a regional basis in the American Chemical Society and in numerous capacities for the Virginia Academy of Sciences.

To all who have been associated with him over the years, he has been a valued teacher, scholar, colleague, mentor, and friend. He has touched many lives in a very meaningful way. In May of 1986, Dr. Powell served as the University Marshal to his last graduating class as he retired to emeritus status from the University of Richmond.

(The above was excerpted from the brochure announcing the first W. Allan Powell Chemistry Lectureship at the University of Richmond in 1988. This lectureship has become an annual highlight of the Chemistry Department of the University of Richmond and the Virginia Section of the American Chemical Society.)