Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 9 Winter 1961

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BADGER CHEMIST

A Newsletter from the Department of Chemistry of the University of Wisconsin

Newsletter 9 **Winter, 1961**

Our New Research Unit

In the last newsletter we gave our readers a preview, in the form of an architect's sketch, of what to expect of the completed research unit. In this issue we show a bird's eye view of the building on location with its Johnson Street frontage. Mills Street is shown on the upper part of the picture just below Luther Memorial Church, and in its lower half is the Wesley Methodist Church. The Chemistry Building, on University Avenue, needs no introduction. The area just to the east of it was once the formal garden at the head of Mills Street—it still is that but in an enlarged, professionally landscaped form—and the tennis courts immediately next to it. The shaded portions have been planted with flowers. The curved lane upon which part of the garden borders is now officially known as Lathrop Drive. It connects Park and Charter Streets.

As we take copy to the printer for our ninth news-letter, the shell of the building is completely enclosed. The east and the west walls are of a beige-colored brick, with a vertical line of windows which, lighting the stair wells, break the solid pattern. The other walls are of modern window-wall construction with Mosai pre-cast concrete panels alternating with the horizontal strips of windows. Aluminum mullions and window frames finish off the exterior and provide a pleasing contrast with the brown-hued stone cast in the panels. The building itself contains 65 per cent usable space and should be ready for occupancy early in July, 1962.

BADGER CHEMIST

Privately published by the Department of Chemistry of the University of Wisconsin, Madison, with the assistance of its alumni.

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The Editor
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Ye Editor's Corner

Our warmest thanks to those of you who answered our appeal in the last newsletter for help in making our publication fund solvent again. Yes, we did "go for broke" but did so confident in the thought that in the final analysis we would not be personally out of pocket in meeting unpaid bills. Some 240 of you made this, our ninth newsletter, possible. You contributed $900 to Project Newsletter for an average of $3.75. We are hopeful that, when all bills will have been paid, there will remain a "down payment" on the publication costs of our decennial issue which should appear in 1962. The tax dollar, as we have stated on earlier occasions, is not for our spending, however worthy our objective may be. Will there be a Badger Chemist? The answer lies in your hands.

A new name appears at our masthead with this issue of Badger Chemist. Chemistry Course graduate Prof. Edwin M. Larsen, B.S. 1937—Ohio State conferred the doctorate upon him in 1942—replaced efficient, helpful Ann K. Bergen, B.S. 1957, as an associate editor.

H. A. S.

Picture Credits

p. 10, Beeman (Fabian Bachrach); p. 12, Lueck (Conway Studios); p. 21, Piper (Varden Studios); p. 18, Schroeder (Memphis Commercial Appeal); p. 1, Wisconsin State Journal; p. 11, Coon (N. D. U. News Service); p. 6, McElvain (Carl Jorgenson, Madison, Wis.).

Our Newest Alumni

The Department's alumni list was enlarged by 93 names during fiscal year 1960–1961. The number was 77 at last report. Five years ago the total number of graduates stood at 55; and it has steadily increased since then. Percentagewise the greatest increase lay in the master's category which consisted of ten students in 1957 and 30 in 1961. The bachelor's group which numbered 21 in 1957–1958 this year was made up of 30 individuals. The Ph.D. class of 32 has eight more members than it had last year—and five years ago.

Three of the senior class were privileged to wear the fourragere at Commencement exercises as a mark of having achieved a distinctive scholarship rating. Their names: Allan C. Button of Lake Geneva, Wis., who had been elected not only to Phi Beta Kappa but also to Phi Kappa Phi, the national scholastic honor society; David C. Lewis of Manitowoc and Doris A. Wambach of Milwaukee. And to Allan Button's list of recognitions should also be added the American Institute of Chemists' Student Award which he won with his near-perfect grade-point average of 3.85.

DEGREES GRANTED AUGUST, 1960

Bachelor of Science

Wisconsin residents William J. Connors of Madison, Hubert H. Quicker of Neillsville, James F. Rankin of Waukesha. There were no Chemistry Course graduates in this group.

Master of Science

The number of graduate students upon whom the master's degree was conferred at Summer School's end in 1960 is exactly matched by the number of schools from which they received their first degree; and when the lone arts degree is included in the list, the number of masters becomes a baker's dozen.

Recipients of the M.S. degree and the school which each represents are: James K. Barr (California at Los Angeles), Russel A. Bell (Canada's Victoria University), James M. Bilderhack (Beloit), Morris Brown (Stanford), Edward J. Conklin (Illinois), Sister Mary Albertus Doskey (St. Mary's Dominican College), Richard W. Franck (Amherst), Mildred M. Maguire (Carnegie Tech.), Calvin J. Martell (River Falls State Teachers), Norman S. Nelson (Platteville State Teachers), Wanda J. Ratsek (Russell Sage), and Gerry Rollefson (California).

Doctor of Philosophy

Eleven graduate students from ten different schools completed their formal education at Summer Session's end in August, 1960—there were only four the year before—and six of them took jobs in industry. Their names (with the name of employer in parentheses) and their source of their first degree are: Duff S. Allen, Jr., B.A. '49 Princeton (American Cyanamid); Thomas R. Beebe, B.S. '54 University of Ohio (Berea College); Robert D. Bocksch, B.S. '54 Wayne University (Whitworth College); William D. Closson, B.S. '56 Wayne (Harvard); Albert B. Costa, B.S. '52 St. Mary's College (St. Mary's); Evan T. Jones, S.B. '56 MIT (Stanford); Ralph W. Looney, B.S. '53 West Virginia (Esso Research & Engineering); Frederic F. Nelson, B.S. '56 Michigan (Hercules); Melvin M. Pombo, Sc.B. '56 Brown (Hercules); Jerry W. Todd, B.S. '51 Platteville State Teachers (Minnesota Mining & Manufacturing); and Theodore Peng-Jung Yin, B.S. '53 U. Hong Kong (Du Pont).

DEGREES GRANTED JANUARY, 1961

Bachelor of Science

Five Wisconsin residents and one Iowan received the bachelor's degree. Two of them, James E. Haskins of Baraboo and John H. Stade of Milwaukee, are graduates of the Chemistry Course. The others had met the B.S. (general) requirements. Their names: Richard J. Crotteau of Mosinee, Robert A. Kemmerling of Jefferson, Charles A. Lovig of Ottosen, Ia., and David E. Schmidtke of Rothschild.

Master's Degree

Leonard C. Afremow (Illinois); Mrs. Frances G. Baird (Berea College); John H. Bright (Albright College); Elizabeth J. Cooper

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Alumni . . .

(Continued from page 2)

(Worcester Polytech.); William I. Elliot (Marquette); You-ling Fan (Chen Kung University); Pih-kuei C. Huang (Taiwan University).

A now seldom granted—to chemists that is—M.A. degree went to Ke-Chin Wang, an alumnus of Taiwan University.

Doctor of Philosophy

The names of twelve men and one woman, each representing a different school, were added to the Department's Ph.D. alumni list last January. Industry attracted three of them; one decided to make his career in medicine; two are meeting their service requirements in the Armed Forces; and seven have made university or college connections. Their names, with academic background and employers (in parentheses) are: Jon D. Bass, Michigan, B.S. '56 (Armed Forces); Rodger L. Foltz, Massachusetts Institute of Technology, B.S. '56 (Battelle Memorial Institute); William H. Glaze, B.S. '56 Southwestern University (North Texas State University); Robert R. Jacobsen, B.S. '54 Minnesota (Medical School, Minn.); Daniel D. Konowalow, B.S. '53, Ohio State (Du Pont); Peter M. Livingston, B.S. '56 Wisconsin (Armed Forces); Donald H. Secrest, B.S. '55 Akron (Illinois); Terry G. Selin, B.S. '56 Brigham Young University (General Electric); Theodore S. Sorensen, B.S. '56 University of Alberta (University of Leicester); Richard P. Wendt, B.S. '54 Washington University (Enzyme Institute, Wisconsin); Howard W. Whitlock, Jr., B.S. '57 Oberlin (Wisconsin); Herbert Winicov, B.S. '56 Pennsylvania (Smith, Kline French); Sister Mary J. Mark Woods, B.S. '45 Rosary College (Rosary College).

DEGREES GRANTED JUNE, 1961

Bachelor of Science

The B.S. degree was conferred on June 5 with benefit of Wisconsin's traditional colorful Commencement exercises—and the clear skies thoughtfully provided by the weather man for it was held in the stadium. Chemistry's contribution to the whole consisted of three groups of seniors: graduates of the Chemistry Course, those who had fulfilled the requirements for this degree in the General Science Course, and graduates of the School of Education with a major in chemistry. Six of the 19 graduates were privileged to wear the badge of distinctive scholarship achievement. The class was "home grown" in that all were Wisconsin residents. Honors students are indicated by an asterisk.

Chemistry Course

Herbert A. Beall, Appleton; Allan C. Button*, Lake Geneva; Terrence F. Cooprider, Waterloo; Roy F. Euclid, Little Suamico; Elizabeth A. Kroes, Fond du Lac.

Bachelor of Science

General Course

Irene M. Boerschinger, DePere; Carole A. Bolan, Milwaukee; David C. Lewis, Manitowoc; Thomas F. Danelski, Green Bay; Kenneth E. Dempskey, Racine; Richard J. Dexheimer, Sheboygan; Carol F. Evers, Madison; William L. Ogren, Ashland; Robert G. Rosenthal,

(Continued on page 4, col. 1)

We Salute . . .

Butler University alumnus (B.S. 1929), **Arthur C. Cope,** Ph.D., 1932, is the first Badger chemist to head the American Chemical Society, one of our eight Ph.D. alumni known to have captured more than one award and one of the six to have received the Alpha Chi Sigma-sponsored ACS award in pure chemistry.

We know, Arthur, that you, as head of the Chemistry Department of MIT since 1945, handle an administrative work load equal to that of many a business executive; that you oversee a faculty of 34 which is responsible for some 150 undergraduates, 200 doctoral candidates, and 75 postdoctoral associates; that of the foregoing list, 20 are under your immediate supervision; that long after you are gone, students in organic chemistry will still be learning about the Cope Rearrangement of certain organic molecules which you discovered some time before 1944.

You have given freely of your time to the affairs of our Society on the local, the division, the national, and the regional levels. Your talents as an executive have been recognized also by your appointment to various important committees of the Society.

Because of your long and active association with the Society, and your intimate knowledge of its operations and internal structure gained from the diverse services which you rendered so well, you are a "natural" for the position to which your colleagues in chemistry, chemical engineering and allied fields have elected you. We are proud to claim you as one of our own.

Our Ph.D. Alumni: Then and Now

The University conferred its first Ph.D. degree upon geologist Charles R. Van Hise in 1892; its second upon historian Kate A. Everest (Mrs. E. R. Levi) in 1893. Although Chemistry was not in a position to make a contribution to the list of Ph.D. alumni until 1899, we venture to state that, in spite of this handicap, it has been doing rather well, numbers-wise, since the late Azariah T. Lincoln B.S. '94, a protege of the late Prof. Louis Kahlenberg, B.S. '92, Ph.D. (Leipzig) '95, became the Department's first Ph.D. "with all the honors, rights, and privileges belonging to that degree". Some 967 other chemists have since then achieved that goal.

The number of doctor's degrees granted during President Van Hise's term, 1903–1918—historians refer to it as the University's "golden years", when, in a sense, its home campus was extended to the boundaries of the State, "even to the last remote postal route"—reached a total of some 315. And contributive to the University's output of Ph.D.s during the Van Hise administration were 38 chemistry majors.

If the annual rate of increase of the Department's Ph.D. alumni during the past five years is maintained, it could be some member of the class of 1962 who will be the one thousandth Badger chemist upon whom this degree will have been conferred. Will the event be officially observed?

Newest Alumni . . .

(Continued from page 3)

Milwaukee; James F. Sobieski, Wautoma; Doris A. Wambach, Milwaukee.

Education

Three students made chemistry their major in education. Their names: Judith Bauer*, Sussex; James R. Okey*, Madison; Thomas J. Walter, Dodgeville.

Master of Science

Three Badger chemists and graduates of six American schools, besides two from foreign universities, make up the June '61 class whose members had selected the Department as their training ground for a higher degree. Those who achieved their objective at school years end are: Walter M. Barker (Purdue); Dennis W. Barnes (Berea College); Jae-Ho Choi (Seoul Univ.); Richard B. DeMallie Jr. (Amherst College); David B. Johnson (Wisconsin); Denis J. Kertesz (Northwestern); Ronald A. Razner (Wisconsin); Kyung S. Shim (Wisconsin); and Moneeb H. Zakaria (Ein Shams U., Egypt).

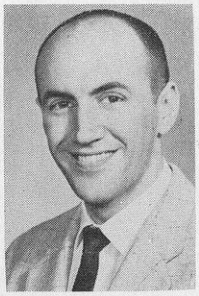
Doctor of Philosophy

Eight graduate students representing a like number of schools—one of them did his undergraduate work in Cairo—received the Ph.D. degree at school year's end in June. Only two of them joined the ranks of the educators. Industry took the others. The score for the whole period (fiscal year) covered by our report stands now: industry 16, education 14, Armed Forces 2. Their names, with academic background and employers (in parentheses) are: Herbert L. Benson, Bethany College; George C. Blytas, B.S. '56 American University, Cairo (Shell Oil); Gerald Brenner, B.S. '56, C.C.N.Y. (Merck); Donald D. Donermeyer, B.S. '56, Wisconsin (Shawinigan Resins Corp.); George W. Fleck, B.S. '56, Yale (Smith College); James W. Patton, B.S. '51, Univ. of New Mexico (University of Southern California); Carlton Placeway, B.S. '55, Michigan (DuPont); Howard A. Whaley, B.S. '56, Illinois (Lederle Labs.).

We Introduce . . .

LARRY A. HASKIN

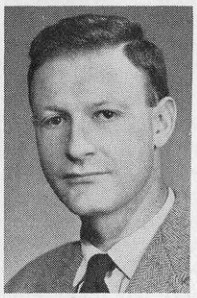
Assistant Professor



Baker University alumnus Larry A. Haskin, B.A. '55, joined the inorganic division as instructor in the fall of 1960 after having taught a year at Georgia Institute of Technology. His "probationary year" in the Department satisfactorily completed last June, he was promoted to assistant professor. The University of Kansas conferred the doctorate upon him in 1960; his research work was done under Prof. R. S. Rowland. Professor Haskin has a two-fold association with the Department: with the group teaching Freshman chemistry and with Dean Willard in his course in radiochemistry. It is in the latter field that his research interests lie. They deal particularly with tritium recoil, neutron activation analysis, and nuclear isomers.

PETER S. WHARTON

Assistant Professor



English - born Peter S. Wharton was added to the departmental staff as instructor in the fall of 1960. He, too, was advanced to assistant professor status at school year's end. He had previously held a post-doctoral fellowship at Columbia where he was associated with Wisconsin's Gilbert Stork, Ph.D. '45. He received his B.A. '52 and M.A. '56 at Cambridge University. His doctorate was granted by Yale in 1959, his research being done under Prof. Harry H. Wasserman. Professor Wharton's research interests lie in the field of natural products, particularly the synthesis and stereochemistry of steroids and antibiotics.

HOWARD W. WHITLOCK, JR.

Instructor

Howard W. Whitlock, Jr., never left the campus because, his Ph.D. granted him at midyear, he joined the organic division with instructor's rank in January 1961. He had been doing work under the direction of ex-staff member, Prof. W. S. Johnson. His last association with the Department was, as it began in 1957, as an NSF Fellow. He was born in Washington, D. C. and did his undergraduate work at the University of Maryland. His interests lie in the field of natural products. His Ph.D. thesis dealt with the synthesis of the alkaloid veratramine.

HOWARD E. ZIMMERMAN

Professor

The organic chemistry division added Dr. Zimmerman to its staff in summer of 1960 with associate professor rank. Promotion to full professor came last June. He had been in the chemistry department at Northwestern since 1954. His B.S. was taken at Yale in 1950, his Ph.D. at the same university three years later, his research being directed by Prof. James English. A post-doctoral year at Harvard with Prof. R. B. Woodward preceded his Northwestern period. Dr. Zimmerman's research interests include reaction mechanisms, stereochemistry, and the synthesis of unusual molecules. Much of his present research activity is concerned with mechanisms of organic photochemistry.

Faculty Activities

Prof. R. A. Alberty took a leave of absence for the second semester of 1960–61 in order to fill a research appointment at the Max Planck Institut fur physikalische Chemie in Goettingen, Germany. Among his extra curricular activities on this side of the Atlantic was his presentation of the Friend E. Clark lectures at West Virginia University on November 10 and 11, 1960.

The off-campus activities of **Prof. W. J. Blaedel** this past calendar year included a lecture in New York City before fellow chemists and a two-week, NSF-sponsored series at the University of Illinois on the subject of recent developments in analytical chemistry. The New York lecture was given before the Analytical Group of the New York Section, A.C.S., on the subject of continuous analysis. His lecture prop was a compact portable apparatus of his own design and a (borrowed) polarograph.

Emeritus Professor Daniels is continuing his Rockefeller Foundation-supported program on solar energy at the University's Engineering Experiment Station. He is also revising his text—it is its sixth revision—on physical chemistry. Off-campus lectures and allied activities also claimed his attention. He was Priestley lecturer at Pennsylvania State University last April when, in five appearances, he spoke on the subject "Selected Studies in Chemical Kinetics". That same month he organized a symposium on research frontiers in solar energy utilization. It was presented under the auspices of the National Academy of Sciences of which he was then the retiring vice-president. And this past summer he (1) was in Montreal for the meeting of the International Union of Pure and Applied Chemistry and took part in a United Nations-sponsored program on solar energy, (2) was in Rome and also in Athens on a similar mission.

Professor John D. Ferry took on an extracurricular job last spring when he accepted the chairmanship of the local arrangements committee for the 32nd annual meeting of the Society of Rheology in Madison, Oct. 30–Nov. 1, 1961, at the University's new Wisconsin Center. He lectured at three Texas universities under the auspices of the Welch Foundation, April 18–20. His hosts: the University of Houston, Southern Methodist University, and Baylor University. He was a Montreal visitor, July 27–Aug. 1, as was Professor Daniels, at which time he participated in an international symposium on macromolecular chemistry. His paper was on the subject of molecular entanglements in polymer solutions.

Professor L. A. Haskin was introduced to the Student Affiliate group of the American Chemical Society late in February of this year when he addressed them on the subject "Research in Radiochemistry".

Another faculty member away on leave in Europe was **Professor Hirschfelder.** He spent six weeks at Oxford University, England, on an Atomic Energy Commission-sponsored mission working with Professor Charles Coulson on problems of molecular quantum mechanics. At Summer Session's end, accompanied by his wife, he drove to Los Alamos, New Mexico, for his annual consultations there with the laboratory's staff.

Last August (1960) **Professor Ihde** was at Western Reserve University, Cleveland, giving a course, based on some case histories in physical sciences, in a summer NSF-sponsored institute for high school teachers (Badger chemist Ralph H. Petrucci, Ph.D. '54, of Western Reserve's Chemistry Department was director of the Institute). He was back on the WRU campus again this summer giving a course on the history of chemistry. At school year's end last June he delivered the commencement address at nearby Milton College: "Are the Liberal Arts Worth Saving in a Scientific World?" His answer: "Yes, there is still a place for the liberal arts. They can never be overemphasized." After this he took part in three more NSF-sponsored institutes for high school teachers: South Dakota State College with lectures on certain milestones in the history of science; Northern Illinois University where he devoted his lectures to the atomic theory; and, finally Wisconsin State College (Eau Claire) where he was a guest July 10–13, lecturing on selected topics in chemistry.

Prof. and **Mrs. M. L. Holt** motored to Tilton, N. H. in August for the Gordon Research Conference in Tilton, N. H., where he presided at the session devoted to electrodeposition.

Last winter **Prof. E. M. Larsen** continued his practice of participating in the visiting scientist program of the Division of Chemical Education, A.C.S. by addressing interested groups in the Monmouth College, Monmouth, Ill., Augustana

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We Salute . . .

St. Olaf alumnus (B.A. 1919), **C. Harvey Sorum,** Ph.D. 1927, is one of some 43 of the Department's alumni, within our knowledge, to have received recognition in the form of an award, a medal, a citation or a prize for some conspicuous accomplishment.

You, Harvey, are one of the four educators in this category, and the only one of them with university affiliations. You are the first member of the departmental staff to have won the annual Benjamin Smith Reynolds Award of $1000 in recognition of your wide reputation as an outstanding teacher who has been highly effective in training future chemical engineers and chemists. Because of your long and distinguished record of teaching chemistry, you have twice received recognition by federal agencies, first by the U. S. Office of Education and then in 1956 by the National Science Foundation when there was launched under your guidance at the University of Wisconsin a year-long program of study which had been specifically planned to increase the individual's effectiveness as a teacher. The foundations which you laid for this program are so firm that it is now in its sixth year of operation on the campus; and the number of universities at which it is now available has increased from the original two pilot schools to some 32.

Your three-year association with this program has paid off richly; your recognition was well deserved.

Faculty . . .

(Continued from page 5)

College, Rock Island, Ill.; and Manchester College, North Manchester, Ind. His summer lecture activities took him to the University of New Hampshire, Durham, for a three-week visit during which he took part in an NSF-sponsored institute for high school teachers. Off-campus summer lecturing ended for him at Ft. Collins on completing a two-week series of discussions at Colorado State University before an NSF-sponsored institute for high school teachers of advanced placement courses.

Prof. John L. Margrave, on leave of absence during the second semester as a Guggenheim fellow at the University of California was engaged in research there on high temperature phenomena. He spent also three months in research at Brigham Young University, Provo, Utah, before returning to the campus at school year's opening.

Prof. Villiers W. Meloche is currently president of the Wisconsin chapter of Phi Kappa Phi, national scholastic honor society, and chairman of the University Athletic Board.

Dr. Hans Muxfeldt, director of research for doctoral students at Technische Hochschule, Braunschweig, Germany, has been appointed associate professor. He is no stranger to the Department in that he was a campus visitor, by invitation, last October when he delivered the Karl Folkers and James M. Sprague lectures under the sponsorship of Merck, Sharp, and Dohme.

The **McElvains** took off soon after first semester's end this year for what appears to be their favorite vacation spot, Hawaii. He is now one of the Department's retirees.

Prof. Robert C. West led an expedition to the Purcell Range in British Columbia in August 1960. During a three-week trip he and his party made ascents of six previously unclimbed mountains, explored a large snowfield with five glaciers radiating from it, and revisited the Commander glacier, for the purpose of measuring its progress during the past six years. The answer: 800 feet.

Samuel M. McElvain

Professor Emeritus

Professor McElvain did not wait until he had reached the mandatory three-score-and-ten retirement age, nor did he take advantage of Wisconsin's permissive age 65 as the point of departure for release from teaching and research duties. Rather, he decided to call it quits at age 63. The Board of Regents accepted his resignation last January and, on recommendation of the Department gave him emeritus status, thus increasing the staff list in this category to six.

Affectionately known as "Uncle Mac" by his Ph.D. students—he has supervised the work of a rec-

(Continued on page 7, col. 1)

Prof. and **Mrs. H. A. Schuette** made their second trip to Europe since his retirement in 1955. Space limitations rule out the travelogue type of story of their visits to the seven countries which, on a previous occasion, had been reserved "for the next trip". And, on that next trip—they were gone for a leisurely seven weeks—a TWA jet carried them from Chicago to Paris. Then followed visits to cities in West Germany, and in Switzerland (Lucerne, Zurich), to Austria (Salzburg, Innsbruck, Vienna) and, homeward bound, the Italian cities of Venice, Florence, Rome, Sorrento, with a side trip to Capri, Pompeii, and towns along the Almalfi Drive. The French Riviera at Nice and a look at tiny Monaco behind them, they flew to the Spanish cities of Barcelona and Madrid, and then Lisbon, Portugal. They arrived in New York by Pan-American in time for the opening session of the American Oil Chemists Society meetings.

Prof. John E. Willard, accompanied by his wife, made a brief European trip in late October, 1960, to attend a symposium on the chemical effects of nuclear transformations held in Prague, Czechoslovakia.

Prof. E. E. Van Tamelen's list of extra-curricular activities from October 1960 through the first week of August 1961, is an impressive one. It reveals addresses to three local sections of A.C.S.: North Jersey, Kanawah, and Milwaukee and lectures at three Universities: Wayne, Princeton, and Kansas where he was the third Henry Werner lecturer. He attended a symposium on the chemistry of natural products at Stanford University in March, participated in a Quartermaster Corps-sponsored conference on organic chemistry, and closed his off-campus speaking engagements, August 4, in Montreal, before the Natural Products Section of the Canadian Institute of Chemistry. He is the sixth member of the Department's faculty to have received a Society-administered award in chemistry sponsored by Alpha Chi Sigma professional chemistry fraternity and the second member to have been named to the Homer Adkins professorship. He is an authority on the structure of antibiotics, the alkaloids of which he has synthesized several, besides other natural products. His synthesis of colchicine, an ancient gout remedy not of interest in the field of cancer, is recognized as an outstanding feat.

On the list of some 235 faculty promotions announced last June are the one-step advances to professor of Irving Shain and Howard E. Zimmerman, of Robert C. West to associate professor, and instructors Larry A. Haskin and Peter S. Wharton to assistant professor.

As we go to press, too late for the preparation of biographical sketches, we learn of the newest additions to the departmental teaching staff. They are assistant professors Frank C. Andrews, B.S. '54, Kansas State University, A.M. '60, and Ph.D. '61 Harvard; Richard F. Fenske, B.S. Marquette, '52, Ph.D. Iowa State University, '61; Worth E. Vaughan, A.B. Oberlin, A.M. '59 and Ph.D. '60, Princeton; and instructors Thomas J. Bydalek, B.S. '57, Aquinas College, Ph.D. Purdue '61; and Byron Kratochvil, B.S. '57, M.S. '59, Ph.D. '61 Iowa State University. They will be introduced biographically and pictorially in a future issue of the newsletter.

McElvain . . .

(Continued from page 6)

ord number of 80 recipients of this degree—he came to the Department as an instructor after having won the doctorate in 1923 at Illinois under the tutelage of Professor Roger Adams. Ten years later he reached full professor rank. During his active association with the Department he popularized the course on the characterization of organic compounds, authored two textbooks, some 170 papers, and was granted twelve patents stemming from his researches on synthetic drugs, particularly those possessing local anesthetic action.

He has made many significant and important contributions to organic chemistry. The scope of his work on the synthesis of compounds of interest for their physiological action, his studies on the nature and mechanisms of certain reactions, such as the aceto acetic ester condensation and the relative reactivity of organic halides, his preparation and reaction studies on the ketene acetals, his characterization of natural compounds—his papers on the constituents of oil of catnip are particularly notable—all these reveal his wide interests and his versatility in the field of organic chemistry.

His extracurricular activities include service to the ACS at one time as chairman of the Division of Organic Chemistry and to the National Defense Research Committee (1942–45) as consultant. He has been active in University affairs as a member of several important committees. The National Academy of Science and Phi Kappa Phi, national scholastic honor society, have honored him by election to membership.

He retired without benefit, if any, of the traditional dinner, replete with speeches and pictorial biography—he would have none of it—often done when a Wisconsin professor bows out of the picture as an educator. But his colleagues in the organic chemistry division did get his consent to stage an informal dinner in his honor, sans verbal embroidery, at one of "Madison's newest and finest dinner clubs". One element in the secret of the success of the affair was the "happy hour" which preceded it. And with that mixer came the opportunity of meeting again some 25 guests who had returned to familiar scenes to greet "Uncle Mac".

The two-day activities centering on his retirement came to a close on a serious note on July 1: the presentation in his honor of an organic chemistry symposium. Invited back to the campus to participate in it were three Badger chemists, all winners of an ACS award in pure chemistry and former Ph.D. students of his. They are Arthur C. Cope '32 of Massachusetts Institute of Technology, C. Fredrick Koelsch '31 of the University of Minnesota, and Gilbert J. Stork '45 of Columbia University. Other participants in the symposium were Prof. Roger Adams of the University of Illinois, Dr. Thos. P. Carney of Eli Lilly Company, a former postdoctoral fellow '43–44, and former Wisconsin professor W. S. Johnson who is now at Stanford University.

Fellowships in the Department

We have come a long way since those days some seventy-four years ago when, by Board of Regents action, there were made available four University fellowships of the annual value of $400 each "for the purpose of promoting higher scholarship and research". Chemistry did not receive one of these until 1892 at which time President Charles K. Adams, ever on the alert to spot promising teaching and research material for his faculty, appointed the late Louis Kahlenberg, B.S. '92, fresh out of college, to the position. Today, not one but forty-two graduate students are pursuing their studies in the Department with this form of subsidy; and chemistry no longer makes use of a long-established prerogative in requesting that a fellowship be assigned to it.

The stipend at present lies in the $1650–to–$2200 range and in most cases provision is made also for dependents and the payments of fees by the sponsor of the fellowship.

From twenty-six colleges and universities there came to the campus thirty-four graduate students; and all of them, except the few who already have a Wisconsin degree, we consider as being "probationary" Badger chemists.

The names of the fellows, with that of the school which granted them their first degree, follow:

Wisconsin Alumni Foundation Fellows

Gary L. Grunewald (Washington State); **David K. Hoffman** (Illinois); **John J. Mueller** (Brown).

National Institutes of Health Fellows

Alan H. Cohen (MIT); **Socrates P. Pappas** (Dartmouth); **Howard Stock** (Washington & Jefferson College); **Mark T. Takahashi** (Stevens Point State College).

National Science Foundation Fellows

Raymond Beshinski (Western Reserve); **Victor A. Bloomfield** (California); **David A. Brant** (Yale); **Thomas Bronikowski** (Marquette); **Keith S. Brown** (Cal Tech); **Arnold Krubsack** (St. Olaf); **Jerome F. Levy** (Michigan); **John H. Munch** (Swarthmore); **George V. Nazaroff** (California); **Sam S. Perone** (Rockford College); **Gail R. Plourde** (Michigan State); **Douglas L. Smith** (Dartmouth); **Richard A. Snellgrove** (Amherst); **Robert A. Stenger** (Michigan); **Robert A. Stratton** (Nevada); **Paul W. Sutton** (Ill. North Central); **Eugene R. Wagner** (Wisconsin); **Dale L. Wampler** (Bridgewater).

Woodrow Wilson Foundation Fellows

John W. Allis (Syracuse); **Herbert W. Baird** (Maryland); **Hiram T. Mudge** (Cornell); **Gary A. Zimmerman** (Cal. Tech.).

Industry-sponsored Fellowships

The names of the fellows in the above-named category with that of the school which they represent and their sponsor follow:

Louis S. Arighi (California)—U. S. Rubber Company; **Gottfried Brieger** (Harvard)—Allied Chemical Corporation; **Robert G. Briody** (Maryland)—Shell Foundation; **Arthur E. Grosser** (Cornell)—Dow Chemical Company; **Charles S. Kraihanzel** (Brown)—Eastman Kodak Company; **Gene J. Pontrelli** (City College, New York)—Procter & Gamble Company; **Lee F. Thompson** (Wisconsin)—General Electric Company; **Joseph J. Tufariello** (Queens College)—Minnesota Mining & Manufacturing Company.

This 'n' That About Our Alumni

Clyde Aldridge, Ph.D. '52, is one of some 150 chemists, chemical engineers and physicists making up the technical staff of Esso Research Laboratories at Baton Rouge, La. His field of concentration at this writing is that of hydroformyl catalysis. Working with research consultant Prof. Hans Jonassen of Tulane University, he has made, we understand, substantial contributions in unravelling the complicated mechanism of the oxo reaction. This reaction makes possible the conversion of olefins to aldehydes by the addition of carbon monoxide and hydrogen in the presence of a cobalt catalyst.

Robbin C. Anderson, Ph.D. '39, was on leave of absence from the University of Texas the past school year serving the National Science Foundation in Washington, D. C. as head of its Institutes Section which is responsible for the various programs of academic year institutes, summer institutes, and in-service institutes for science and mathematics teachers. He is planning, at this writing, to return to his post—and the academic life—at the University of Texas some time in late October.

Some-time Forest Products Laboratory employee (USDA), **Rolland A. Aubey,** B.S. '49, because of a promotion has a new job—and title—at Nekoosa-Edwards Paper Company, Port Edwards, Wis. He is now assistant manager, paper development in the research department. His interests include the family's three children, scouting activities and municipal politics.

Gilbert H. Ayres, Ph.D. '30, who, besides teaching analytical chemistry at the University of Texas is also serving as graduate adviser in the Chemistry Department there, was the guest speaker last March, in turn, of three local sections of the Society. His hosts were the Dallas-Fort Worth, Texas A. and M. and Wichita Falls (Oklahoma) Sections; his subject: The Fundamentals of Spectographic Analysis.

Some-time research assistant **Shirley R. Bach** (Mrs. M. K.), Ph.D. '57, has informed us that she and her family have been living since fall in Kalamazoo, Mich., where her husband Mike, Ph.D. (biochemistry) '57, is a member of Upjohn's scientific staff. She, as of last December, expressed the hope that she get a chance to do some teaching. Her's appears to be an ambitious program because of her home work, by her own admission, is keeping their "two young rascals happy."

Du Pont's retiree **George C. Bailey,** B.A. '09, Ph.D. (Yale) '16, enrolled at Wisconsin as a junior from the University of Kansas. Now, with plenty of leisure time on his hands he spends it in travel when the mood strikes him. The following excerpts from his letters reveal the extent of his visits on foreign soil. In 1954 he wrote, "Living on a pension. Had a fine trip in the far East." Two years later the Baileys visited South Africa, and early in November of 1957 they were in the West Indies where they boarded a French liner for Australia. Homeward bound they stopped in New Zealand, Indo China—this terminology dates their trip—Hong Kong, Formosa, and Japan. The summer of 1959 found the Baileys in Europe doing, by car, West Germany, Austria, Italy, Switzerland, and France. Last November he wrote, "We just returned from three months in South America." George, it seems, has visited one or more cities in practically all of the six continents within the past ten years. Oh retirement, where is thy sting?

Grant C. Bailey, B.S. '32, M.S. (Iowa) '33, and Ph.D. Washington State) '38, paid the Department an official visit on November 2, 1960, as a visiting "hireman" for Phillips Petroleum. He is a branch manager, catalysis, in the company's research division. We learned from him that his son is a junior in electrical engineering at Purdue and that his daughter is a high school student.

Exactly 21 years ago the name **Robert H. Baker**—he received his Ph.D. degree in 1940—appeared on the Department's staff list as a Rockefeller Foundation fellow in chemistry. The same name was there again for the 1960–'61 college year modified only by a suffix to show a father-and-son relationship. The junior Baker, a '56 Trinity College alumnus, Ph.D. (Indiana) '61, came to Madison with his parents in 1939 as a child. Now, grown to manhood, he is the father of two children, a son Robert Henry III and a daughter. The extreme ends of his educational skein have been spent in Madison: a kindergartener in 1939–40 and, more recently, a post-doctoral fellow and project associate to Professor Alberty.

Rensselaer Polytechnic Institute's School of Science Dean **Walter H. Bauer,** Ph.D. '33, wrote to let us know that he and his wife are now providing "stiff competition" for Badger chemists in the grandparent category. Their oldest daughter Karen (Mrs. Barry Taylor) had presented them with twin grandchildren! "With two at a time", he wrote, "we soon should make the head of the grandparent list." Are any of our alumni in a position to challenge this progress report?

Warren R. Biggerstaff, Ph.D. '48, joined the faculty of Fresno State College, Fresno, California, upon graduation from Wisconsin. He climbed the academic ladder there to a full professorship in 1959 and recently was made chairman of his department which now numbers ten staff members. He has watched, he informed us, California's state college system grow to the point where last year nearly 85,000 students were enrolled in the sixteen regional colleges which comprise it. Fresno College has about 6000 students. It provides wide liberal arts offerings through the master's degree.

Accompanying the contribution which **Richard G. Black,** Ph.D. '35, made to our Badger Chemist publication fund was a note, the substance of which was that he could not recall having notified us of his switch in 1956—it apparently was a very pleasant change—from Western Electric in Chicago to Westinghouse in the Pittsburgh area. He is in Materials Engineering, specializing in cast resin insulation. (Thanks, Dick, for the check and the "orchid", Ed.)

From secondary sources we have learned that **Edward C. Boycks,** M.S. '54, has gone from Esso Research Center to Librascope Division of General Precision as manager of its eastern regional sales.

Jos. E. Brenner, Ph.D. '58, has now a change of address: from MIT's chemistry department to Du Pont where he is in polychemicals.

Forest Products Laboratory's **Frederick L. Browne,** Ph.D. '20, continues to make service to his church, one of his extracurricular

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activities. Last October's (1960) election conducted by the Episcopal Diocese of Milwaukee brought him the lay deputyship to the General Convention of the Church, which will meet in Detroit in October of this year. This recognition spells the third successive time that he has been so honored. He had previously served in this capacity at Honolulu (1955) and Miami Beach (1958). At this writing he is serving a term as the president of the Madison Council, United Church Men; and his wife, in 1960, completed a similar year of duty for the comparable Women's group.

UW–M's Chemistry Department chairman **Ray U. Brumblay,** Ph.D. '38, is the author of a recently published book (Barnes and Noble, Inc., New York) Quantitative Analysis. Principles and Procedures.

Chemistry Course graduate **Harry F. Brust,** B.S. '38, continued his education to the Ph.D. degree which he won at Pennsylvania in '43. He is now a group leader at Dow Chemical.

Chemistry course graduate **Alfred N. Budd,** B.S. '10, was one of the old grads back to the campus last June as now a member of the University's Half Century Club. He is president of Bremer Manufacturing Company, Philadelphia, makers of machine screw taps. His present activity appears to be far removed from the field for which he trained himself. He started out as an instructor in chemistry at the University of Missouri, then served as an officer in World War I, and upon separation from the Armed Forces, served as a chemist first for a Kansas City, Mo., milling company, and then a Cleveland, Ohio steel mill. After that he became sales manager for the Chelfon Electric Co. We understand that he started the company which he new heads.

Mary V. Buell, B.A. '14, Ph.D. (biochemstry) '19. is making her home again in Madison. Some-time associate professor of biochemistry at the University of Chicago, she is now a project associate in the Wisconsin's Enzyme Institute.

Warren F. Busse, Ph.D. '27, has sent us the following information about himself: "My activities haven't been much this year—professional research on plastics as a senior scientist in the Polychemicals Department of Du Pont, and a hobby of teaching semantics."

We do not know with certainty that **Philip J. Canepa,** B.S. '33, ever applied his chemical knowledge in pursuit of a gainful livelihood in the laboratory, but it is a matter of record that he is a graduate of Marquette University, from which he received a law degree. Lawyer Canepa, after having served Dane County (Wisconsin) four years as assistant district attorney, took a position with Industrial Rayon Corp. In 1950 came promotion to patent counsel and, more recently, appointment as secretary of the corporation.

James E. Carnahan, Ph.D. '46, who was one of a team of Du Pont chemists that had found a way to fix nitrogen by using enzyme ex-

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In Memorium

Robert M. Aude, B.S. '39, president Hyden Chemical Division, Heyden-Newport Corporation, New York 17—on 20 August, 1961. Interment was at Springfield, Mass.

Adolph O. Bauman, B.A. '17, owner of Commodity Appraisal Service, Chicago—in Wilmette, Ill., on July 15, 1961.

Harold Braun, B.S. '20, partner of hide brokers Harold Braun Co., —in Milwaukee, Wis., February 26, 1961.

James Miller Breckenridge, Ph. D. '10, Vanderbilt University retiree, some-time principal and football coach of a Mitchell, S. Dak. high school, professor at Carroll College and Wabash College, and department head until retirement —April 13, 1961, after a long illness. Surviving are his wife and a daughter, who is married to Allen G. Gray, Ph.D. '40; and two grandchildren.

Ralph E. Dunbar, Ph.D. '33, dean of the School of Chemical Technology at North Dakota Agricultural College—in Fargo, September 5, 1960.

George W. Finley, B.A. '25—October 2, 1954.

Walter H. Hartung, Ph.D. '26, some-time teaching assistant in organic chemistry and more recently chairman of Virginia's Medical College, department of chemistry and pharmaceutical chemistry—in Richmond, September 29, 1961.

Willard W. Hodge, M.A. '12, some-time head of the Chemical Engineering Department at the University of West Virginia and later senior fellow (Koppers Company) at Melon Institute—January 23, 1961, in Pittsburgh. He left one-sixth of his estate's principal to our University, for tuition, laboratory and incidental fees for chemistry or chemical engineering students.

Roy Clair Judd, Ph.D. '28,—in Brownsville, Texas, 1960.

Alfred R. Koch, M.A. '08, National Carbon retiree,—in St. Louis, January 26, 1961.

James W. Langston, Ph.D. '44, some-time Du Pont employee at its Houston plant, director of products development at Hoffman–Taft, Inc., Springfield, Mo.,—victim of an auto accident, August 14, 1960.

Russell S. McBride, M.A. '09, consulting chemical engineer and some-time employe of National Bureau of Standards and later engineering representative for McGraw–Hill Publishing Co.—April 1961.

Frederick J. Meyer, B.S. '32, prominent Madison businessman, who built a campus potato chip route into the multi-million Red Dot Foods, Inc.—in Madison, Wis., May 9, 1961.

Orlan B. Read, M.A. '10, retired professor at Iowa State Teachers College, Cedar Falls—in Galesburg, Ill., on December 25, 1960, in his ninetieth year.

Harvey D. Royce, Ph.D. '26, director of research, Wesson Division, Hunt Foods and Industries, Inc.—in New Orleans, La., December 11, 1960.

Clark K. Wolfert, B.S. '13, civic leader dedicated to the service of his fellowmen and retired chief chemist of Diamond Match Company at its Oswego, N. Y., plant —January 6, 1960. His survivors are his wife; a daughter, Mrs. R. J. Eddy; two sons and five grandchildren.

John Wong, B.S. '14, Ch.C., father of Ruby W. Chiang, M.S. '49, and owner of North China's largest tannery of its kind—in Tientsin, May, 1960.

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tracted from bacteria, appears to be much in demand by interested scientific groups eager to hear a discussion of the method in question. The month of October, 1960, found him in Europe for some three weeks addressing seminars in Stockholm and Lund in Sweden; Tuebingen and Munich in Germany; Oxford, Bristol and Cambridge in England; Zurich in Switzerland; and Paris where the Pasteur Institute was his host. And, on the home front, on 27 February he addressed the North Jersey Section, Biochemical Group. His subject: Bacterial Nitrogen Fixation.

Yuen-Pai Chen, M.S. '60, became Mrs. Ronald J. Young during the summer of 1960. Her husband is a project associate in the Enzyme Institute. The Youngs, at last report, are making their home at 112 N. Charter St.

Writing from Sault Ste. Marie, where he is teaching math in the two-year branch there of the Michigan College of Mining and Technology, **Wallace (Wolly) A. Cole,** M.S. '28, makes nostalgic reference to some of his college work and states that he is now "right next door to (his) beloved 'bush' country."

J. K. Colehour, B.S. '32, went on to the University of North Carolina for his M.S. degree and taught analytical chemistry there. He is now biochemist at U. S. Naval Aviation Medical Center, Pensacola, Florida, doing research on the physiological changes produced by the stresses of flying.

Arthur C. Cope, Ph.D. '32, Wisconsin's current contribution to the office of president of the American Chemical Society, has been named to the scientific advisory board of Robert A. Welch Foundation.

Lloyd W. Covert, Ph.D. '32, has been with Rohm & Haas Co. since he left the campus. He is a company vice president (manufacturing), a member of the Board of Directors, and serves with **Ralph Connor,** Ph.D. '32, on its Executive Committee.

Pennsylvania native (Bruin), and Geneva College alumnus, B.S. '28, **Paul C. Cross,** Ph.D. '32, has moved around a bit since his campus days at Wisconsin. On completing a WARF fellowship in 1933, he left for the west coast where an NRC fellowship was awaiting him at Cal. Tech; in 1935 he joined the chemistry staff of Stanford University as a Carnegie Institute fellow and three years later he resigned as assistant professor for an associate professorship at Brown University. Promotion to professor came in 1942, appointment to the departmental chairman's position followed in 1947; and two years later he was again on the west coast, this time at the University of Washington as professor and executive officer of the department of chemistry. Early in September he was back

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Lyman A. Beeman

Business Executive

Summer employment in a paper mill in Neenah, Wis.; enrollment in a course in Freshman chemistry taught by a popular professor who was not only well versed in the art of making his subject interesting but also possessed of an unusual talent for making complex phenomena seem simple; these factors and the inspiration which he got from Professor Kahlenberg's lectures convinced him that chemistry was the logical technical background for a career in paper manufacture. It was a decision which led to his enrollment in the Chemistry Course upon completing one semester as a Freshman in the College of Agriculture. Upon graduation and while World War I was still being fought, he took the advice of Prof. Victor Lenher—and his offer of help—that the best use of his talents and training would be to apply them in the war effort to some useful non-combat activity; and out of this move came an appointment as Engineer of Tests, U. S. Army Ordnance. After completing, with a superior record, an intensive three-month course in ordnance inspection at Carnegie Tech., he was assigned to the Boston Ordnance District where he was on duty until war's end as Engineer of Tests.

World War II some twenty-one years later found him in service again, this time in Washington in the Paper Division of the War Production Board, first as a technical director, then as Deputy Director.

The goal which he set for himself back in his early college days has paid off well in terms of a rich experience in the paper industry, and an unusual success in a business way. Over the years his interests have been in manufacturing rather than in research or laboratory activities. Advancement in the several companies by which he has been employed came through the manufacturing end of the business by the usual steps as foreman, superintendent, manager, and executive. Milestones in his rise in 1949 to his present position as president of Finch, Pruyn and Company, Inc., of Glens Falls, N. Y., manufacturers of printing and converting papers, are his association with Kimberly-Clark as night superintendent of its Neenah mill upon the completion of his tour of duty with the Armed Forces back in about 1919 and his employment later by Consolidated Water Power & Paper Company in Wisconsin Rapids and then Combined Locks & Paper Company, Appleton. He left the Wisconsin paper-making scene in the late thirties for New York State and an executive position with St. Regis Paper Company. His affiliation with Finch Pruyn began as a director several years before he was named president of the corporation.

The Beemans live in an area which is heavily forested with the best hunting and fishing. Small wonder then that Lyman should be very much interested in conservation and the promotion of good forestry practice. He served for several years as president of the Empire State Forest Products Association and as New York State Commissioner to the Northeastern Forest Fire Protective commission. He has served also on advisory committees to the New York State Conservation Department and the joint legislative committee on Conservation.

He has three children: Lyman, Jr., a Williams alumnus, who is associated with Finch Pruyn as vice president in charge of sales; Dartmouth-man David who is operating vice president of Sanitary Mills, Inc., Hartford, Conn.; and Barbara Ann, a Smith College alumna, who is married and living in Washington, D. C.

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in his native state as president and chief executive officer of Mellon Institute in Pittsburgh.

Beloit alumnus **Stephan Dal Nogare,** Ph.D. '47, added to his Christmas (1960) greeting card a note stating that he was finishing up a book on gas chromatography which should appear in about a year or so.

We learned after going to press last summer that **Glenn H. Damon,** Ph.D. '32, had been transferred from the U. S. Bureau of Mines in Pittsburgh to the Washington office as chief of the newly activated branch of explosives, research division of bituminous coal.

Kenneth H. Decker, M.S. '59, employed by Morton Chemical Co., Woodstock, Ill. as an analytical chemist.

We have learned that Hercules Powder's research chemist **Henry C. Dehm,** Ph.D. '54, has a new address: from Wilmington, Del. to 3540 Oakview Drive, Salt Lake City, Utah. He is at the company's Bachus plant.

When **Edward E. Smissman,** Ph. D. '32, left the Pharmacy School's faculty to join the University of Kansas as professor and head of its Department of Pharmaceutical Chemistry, he took with him **James L. Diebold,** M.S. '59, his Wisconsin research assistant.

Edgar A. Dieman, M.S. '33, has been in the employ of Standard Oil (Ind.) since graduation. Two of his children are Purdue students; as of 1961 one is a freshman, the other is a senior. The Diemans are living in Crown Point.

Carl J. Djerassi, Ph.D. '46, of Stanford University, is one of the 35 newly elected members of the National Academy of Sciences. We understand that ten of this number are from the chemical and allied professions.

It's a promotion to a senior supervisorship at Du Pont for Yale alumnus **Robert C. Doban,** Ph.D. '52. He is supervisor of the research and development division at the company's Washington laboratory, Parkersburg, W. Va.

Irving Domsky, Ph.D. '59, is now with the Division of Oncology of Chicago Medical School where he is doing research on the role of polycyclic hydrocarbons in cancer production.

The affairs of the Peoria Section of our Society are in the hands of two Badger chemists, **Herbert J. Dutton,** as chairman, and **Everett H. Pryde,** as secretary. Both are on the staff of Northern Regional Laboratory, USDA.

Paul Ehrlich, Ph.D. '51, is a group leader with Monsanto. His address: Burleigh Road, Hampton, Mass.

Edward L. Engelhardt, Ph.D. '44, was a campus visitor last November (1960) scouting likely Badger chemists for employment by Merck, Sharp & Dohme. Ed is now assistant director, medicinal chemistry research, to Badger chemist **James M. Sprague,** '34.

Donald W. Ernst, Ph.D. '56, has changed employers: from the National Bureau of Standards to

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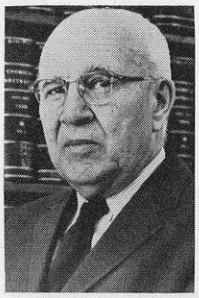
Ernest D. Coon

Professor Emeritus



When Ernest D. Coon, Ph.D. '32, laid aside the pointer and the piece of chalk, the traditional lecture props of the teacher, there came to a close a 51-year association with the University of North Dakota. He became a part of the school in 1909 as a student in the University's Model high school; he left it on June 30, 1960, as chairman of its chemistry department. Today he looks back with kindly feelings for the more than 5000 students who have passed through his classes in nearly forty years. Indicative of the high regard which NDU students had for him is the establishment in his honor by the Student Affiliates of the American Chemical Society of an annual award to the outstanding senior majoring in chemistry. The award consists of the awardee's choice of a scientific publication. The winner's name is inscribed on the award plaque which is on display in the chemistry building. Mention is made on the plaque that the award was established by the donors on the formal conclusion of Professor Coon's long and fruitful teaching career and that it expresses in a small way their appreciation for the dedication, encouragement, understanding, and guidance which he has so selflessly given for so many years.

Winding and assembling a toy electric motor as a boy first aroused his interest in science and engineering. Later he found an old physics text book in an abandoned house. On reading it, he decided to be an engineer. Soon after that, however, his father, a Methodist minister in South Dakota, died and his mother moved the family to a homestead in North Dakota. There he found a job on the railroad which served the community and in time became one of the youngest station agents and telegraphers on the line.

While a student at NDU—B.S. in engineering '20 and M.S. '22 in chemistry—he interrupted his studies long enough to serve in the U. S. Navy (1917–'19) as a radio instructor and technician. He became a member of NDU's chemistry staff, with instructor's rank, upon acquiring the master's degree. After that he never left the campus to teach elsewhere. While an assistant professor he took leave in order to pursue graduate studies at Wisconsin for the doctorate. Promotion to associate professor occurred in 1934, elevation to full professor followed in 1941, and appointment to the chairmanship of the department came in 1957.

Badger chemist Coon's list of extracurricular activities at Grand Forks is impressive: chairman of the building committee on planning NDU's new chemistry building, a $946,000 structure; for twelve years a member of the university's Administrative Committee; for 24 years a member of the Board of Trustees of Wesley College; chairman of the Red River Section, ACS; and president of the North Dakota Academy of Science. He is the fourth Badger chemist within our memory to have served his State's academy in this capacity.

In his quarters which were provided for him in the chemistry building he plans to do research on several problems, among them are some pertinent to nuclear fusion. In his home he will be following a ten-year old hobby: oil painting of landscapes.

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U. S. Naval Ordnance laboratory at White Oak, Md. His residence address is 1006 Quebec Dr., Silver Spring.

Physical chemist **Thos. W. Evans,** Ph.D. '52, on graduation took employment as a metallurgist with General Electric at its Hanford Atomic Products Operation in Richland, Wash. Tom does not regard his "conversion" as a tragedy because he deems metallurgy to be "really the applied physical chemistry of certain solids." He has been active in the American Society of Metals in recent years, has held several offices in the local chapter and has served on a national committee of this society. On reviewing his activities with G. E. during the past eight years he comments that his work has successively changed from research on the irradiation behavior of metals to setting up metal testing programs in test reactors to reactor scoping studies—they led to two new reactors—to his present staff position with responsibility for planning development of fuel element technology for one of two new reactors under construction at this writing.

College of Puget Sound's chemistry professor **Philip R. Fehlandt,** Ph.D. '34, and his wife spent two months last summer in Europe. They divided their time between an international Orchid Congress in London, an auto trip through Scotland, a visit to Vienna by air, and a trip by car to Rotterdam. Phil, whose interest in orchids is now some twelve years old, has carried his hobby to the point where he now has over 600 different varieties—and three green houses in which he grows them. He is a certified judge for two national orchid societies.

Robert N. Feinstein, B.S. '37, Ph.D. (physiological) '40, spent the academic year 1959–60 in Paris at the Institut du Radium. While there he was notified by the home office at Argonne National Laboratory, Division of Biological and Medical Research, that he had been promoted to senior biochemist.

Sallie Fisher, Ph.D. '49, is no longer with Rohm & Haas Co. She is now associate director of research at Robinette Research Laboratories in Ardmore, Pa., a suburb of Philadelphia. Robinette is a contract-consulting laboratory which specializes in textile, paper, cosmetics, leather, and new ion exchange applications.

The president's chair of the American Chemical Society will be

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Roger H. Lueck

Vice President—Research

Wisconsin native (Fox Lake) Roger H. Lueck put on academic costume three times: in 1919 when he received a bachelor of science degree from Carroll College; in 1921 when he became a Badger chemist (M.S.) after having served the Department as a teaching assistant; and in 1943 when his alma mater conferred upon him the honorary D.Sc. degree. In 1922 he joined the scientific staff of American Can Company's research department at Maywood, Ill. It is an association which has continued to the present. It spells a succession of promotions, of intra-company recognitions reflected in ever-increasing responsibilities and a very successful research program.

His first promotion came in 1926 when he was transferred to San Francisco to manage the company's technical service laboratory there. Eight years later he was put in charge of American Can's five plants in the Hawaiian Islands. After that came return to Maywood as general administrative manager, apparently as a prelude for his promotion in 1938 to director of research. His stay in the mid-west ended in 1944 when he was transferred to the New York office for service in the sales department. At that year's end he was back again in San Francisco, this time as sales manager for the Pacific Division. His territory comprised the Pacific coast area, Alaska and the Hawaiian Islands. His return to New York came in 1951 upon being made general manager of the reorganized Research and Technical Department. Promotion to vice-president for the department came four years later, and in 1958, after the acquisition of the Dixie Cup Company, Wisconsin's Marathon Corporation, the Sun Tube Corporation, and the Bradley Container Company, he was named Corporate Vice President for Research of the enlarged company.

His contributions to the technology of the preservation of foods in hermetically sealed metallic containers have resulted in a better product for the consumer and in a substantial reduction in losses which had long plagued the canning industry. This was done by the use of containers whose inner surfaces are made resistant to foods at sterilizing temperatures by the application of harmless coatings; by the incorporation of zinc oxide in this vehicle for the purpose of avoiding the formation of black iron sulfide; by the development of processes for avoiding losses caused by the Maillard (browning) reaction between sugars and amino acids. His fundamental studies on the iron-tin electro-couple led to an understanding of the mechanism of corrosion on the inside of a sealed can that results in losses due to so-called hydrogen swells and perforations.

His "extra curricular" activities have been many—too many to enumerate all here. Mention, however, must be made of his services during World War II as Chairman of the Tin Conservation Committee of the Can Manufacturers Institute and as an adviser to the Quartermaster, USA; as a director of the Industrial Research Institute, as a member of the Board of Directors of the American Management Association, as some-time chairman of its Planning Council for the Research and Development Division; as a director of the National Association of Manufacturers and chairman of its research committee. He was a member of the planning committee of the fund-raising drive for the ACS headquarters building in Washington. He is currently chairman of the food additives committee of the Can Manufacturers Institute. His most recent recognition came this year when he was elected to the Board of Directors of James Dole Manufacturing Co.

His high school teacher, we understand, aroused in him an interest in chemistry. His physician father once told him that of all the studies which he had ever taken, it was chemistry which interested him most. These factors evidently were food for thought in the inquiring mind of an intelligent son.

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occupied in 1962 by another Ph.D. alumnus of the Department: **Karl A. Folkers** '31 is president-elect. both he and President Cope have been made the subject of recent profiles in the newsletter. Prophetic?

This year's **Karl A. Folkers** (Ph.D. '31) lecture was delivered by Harvard's Prof. Robert B. Woodward. Its title: "Recent Advances in the Chemistry of Natural Products".

Alvin J. Frisque, Ph.D. '54, has a new address: from Standard Oil (Indiana) in Whiting, where he was a research chemist, to Nalco, 6216 W. 66th St., Chicago.

J. Paul Fugassi, Ph.D. '34, of Carnegie Tech., has been appointed to the Silliman professorship of chemistry in the Institute's College of Engineering. He has been there since 1935. In 1954 he became director of its coal research laboratory.

Eagle River, Wis. native **Robert J. Gander,** B.S. '40, continued his education to the doctorate at Illinois, '44. Specializing in polymer chemistry, he worked in the research laboratories of the Firestone Plastics Company in Paterson, N. J. and Pottsdown, Pa. from 1945 to 1950. He has been since in the surgical adhesives research section at Johnson & Johnson in New Brunswick, N. J. We understand that he is an avid reader of not only nontechnical but scientific literature as well. Drawing on his own experiences, his advice to others is that they make literature their servant because, in his own words, "The literature of chemistry is a heritage vast in size and dynamic in growth".

Louis G. Germain, B.S. '33, has completed some 27 years of service with American Can Co., at Seattle. His elder daughter was a March '60 graduate of the University of Washington and a June bride that same year.

Lyle I. Gilbertson, M.A. '26, completed his higher education at Indiana (Ph.D. '37). He is now treasurer of the Electrochemical Society.

We are now in a position to state as a fact (Newsletter 9) that **Robert H. Gillespie,** Ph.D. '44, is no longer a staff member of the Institute of Paper Chemistry, Appleton, Wis. After having spent two years there—a very rewarding and pleasant experience, he says—a long-standing desire to return to Madison was answered in December of last year. He is now a chemist on the staff of the Forest Products Laboratory, USDA.

Donald P. Graham, Ph.D. '29, senior research associate at Du Pont's Jackson Laboratory, has joined that group of Badger chemists who have served the Society as Division chairmen. His post: Division of Colloid and Surface Chemistry.

Robert T. Grimly, Ph.D. '58, a veteran of two years in the U.S. Air Force, is now a member of the Chemistry Department of Purdue University; from the Department of Physics, University of Chicago.

Some five years ago we stated that **Donald L. Griswold,** B.A. '37, was sales manager of American Cyanamid's dyestuff department. He has since then made a new connection: vice president of Jefferson Chemical Company, Inc. His address: P.O. Box 303, Houston 1, Texas.

The names of only three Badger chemists—last year there were eight—were found in the list of those members of the American Chemical Society to whom their

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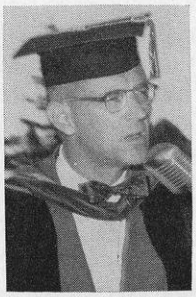
Ambrose R. Nichols, Jr.

College President



When California's State Superintendent of Instruction found himself in need of a president to head up Sonoma State College — it is California's 16th and the newest state college and is now under construction at Cotati, fifty miles north of San Francisco—he picked a Badger chemist for the $17,000 position. The lucky Badger is University of California (Berkeley) alumnus, B.S. '35, Ambrose R. Nichols, Jr., Ph.D. '39. Ambrose had come up from the ranks at San Diego State College with which he affiliated as an instructor on graduation from Wisconsin. He left San Diego on February 11, as professor of chemistry and chairman of its chemistry department; and immediately began planning and recruiting a staff for the September opening of the new college in nearby temporary quarters.

While at San Diego he was active in campus affairs. He served as a faculty representative to the state's master plan study of higher education, was faculty chairman of the Faculty Senate, and a member of a faculty committee which made San Diego State the leader in research among the state colleges. As chairman of the chemistry department he was responsible for the planning of San Diego State's chemistry-geology building, a structure nearly two years in building and ten in planning which went into service in February, 1960.

His off-campus activities included an active participation in the YMCA, Boy Scouts and the Chamber of Commerce. His associates in the American Chemical Society living in the San Diego area will always remember him as the first chairman of the local ACS Section; and the citizens of San Diego owe him a "thank you" for past services on its Commission on Sea Water Conversion.

An expert in factors relating to nuclear reactors, Ambrose spent two years with the Manhattan Project at the University of California in its Radiation Laboratory in research on uranium compounds and electromagnetic separations. He was on leave of absence for 1951–52 and the summer of 1953 at Oak Ridge National Laboratory as a principal chemist in the employ of Carbide & Carbon Chemicals Co., pursuing research on the high-temperature behavior of chemical systems related to nuclear reactors. He served General Dynamic's Convair Division in San Diego during the last four years of residence there as senior staff scientist; this in addition to his college assignments.

He married Santa Barbara State College alumna Barbara Seward in 1938 and then brought his young bride to the campus because he wanted her to share with him his last year of graduate work in Madison. Three children now make up the Nichols family: David, 18; Deborah, 16; and Eleanor, 10.

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associates paid tribute at the General Meeting in St. Louis this year for having maintained an unbroken relationship with it since 1911. Their names: **F. C. Gutsche,** M.S. '16; **C. C. Meloche,** Ph.D. '14; **A. E. Koenig,** Ph.D. '12. Messrs. Koenig and Meloche made teaching their life work and Gutsche took a position in industry.

Neil V. Hakala, Ph.D. '43, has been made deputy to the vice-president of Esso Research & Engineering for medical, basic and analytical research and petroleum products. He joined Esso on graduation. His rise to his present position is marked by a series of promotions—project leader, group head, section head, assistant and then associate director, and then director of products research. He is without doubt typical of Esso men who have moved up on the basis of their ability to provide sound technical or administrative leadership. Badger Chemist extends to Neil a congratulatory hand.

Harry L. Hamilton, M.A. '35, Ph.D. (soils) '48, is now editor of the Agronomy Journal in the Madison office. He is serving, also, as the editor of Dr. Mathews' contemplated book on firearms investigations and identification. The Hamiltons were made the subject of a feature article in one of Madison's newspapers late in February. Its title: "Harry Hamiltons—Parents, Kids Alike—Set Educational Records". And that is far from being an understatement. Theirs is a record which many another family in comparable circumstances would be very proud to own. The family collectively has six college degrees and, as for Phi Beta Kappa, mother and son both won their key at Beloit College.

J. Harry Hanson, M.S. '40, now a registered chemical engineer, is living in Long Beach, Calif. where he has been serving as water pollution control engineer since 1957. Harry, who was an ROTC student as an undergraduate, did a four-year stint in the Army during the last war. The Hansons have three children: Peter, their oldest child, is a Freshman at City College, Long Beach, and their two daughters are high school pupils.

Betty Harker, B.S. '48, is serving Trionics Corporation, Madison, as technical editor, from Bjorkston Research Laboratories.

Badgers Local Section Speakers

Five Badger chemists were the guest speakers of some 23 local sections of ACS during the month of May in a three-week period which began on May 3. Of possible statistical interest is the fact that the speakers discussed their particular research interests to chemists in nine states. Philadelphia Quartz's **William Steriker,** B.S. '17, Ph.D. (Pittsburgh) '22, brought his eleven audiences in five states up to date on the properties and applications of the soluble silicates. His itinerary included Mississippi, Florida, Louisiana, Texas, and New Mexico. Du Pont's **Steve Dal Nogare,** Ph.D. '47 discussed gas chromatography, that relatively new analytical tool, before ten audiences in Ohio where he made two stops and in Michigan where he was the guest of eight different groups. E. M. **Bevilacqua,** Ph.D. '44, of U. S. Rubber's research center addressed the North Jersey's polymer group on the subject "Elementary Reactions in Rubber Oxidation". **Alan G. MacDarmid,** '53, of the University of Pennsylvania's chemistry staff, discussed his experiences before a home audience in manipulating air-sensitive materials and ACS President **Arthur C. Cope,** Ph.D. '32, presented his views before the Pittsburgh Section on curricula for undergraduate majors in chemistry.

Badger chemists appear to be in demand as Local Section speakers; and they do get around.

Gerald A. Harlow, Ph.D. '51, was last August (1960) named research supervisor in the analytical department of Shell Development's Emeryville, Calif. research center.

We have learned that **Robert L. Harris,** Ph.D. '51, transferred early in January, 1959, from Allied Chemical Corporation's central research laboratory to Research and Development, Barrett Division. The family is still living in Morrison, N. J., on Lidgerwood Place.

Phillips Petroleum's research chemist **Louis F. Heckelsberg,** Ph.D. '51, has a nearly perfect record of annual contributions to our Badger Chemist fund. (We would be happy to have many more like him. Ed.)

The name of **George E. Heckler,** Ph.D. '52, belongs to the list of Badger chemists serving as Section chairman. George, who holds an associate professorship at Idaho State College heads the Idaho Section.

MIT faculty member **Lawrence J. Heidt,** Ph.D. '35, served Boston College this past academic year as visiting professor.

The Cleveland Section of The Electrochemical Society has established a **George W. Heise** medal in bronze, the awarding of which expresses respect and appreciation to those of its members who in the past have contributed conspicuously to its progress "or may do so in the future". His wife, the former Margaret Armstrong, B.A. '14, a sculptress, made the original plaster cast of George in bas-relief. The obverse of the medal bears the name and likeness of George W. Heise and a tribute to his services to the Section and the Society. The reverse, engraved with the name of the recipient, is inscribed: "For Meritorious Service to Cleveland Section Electrochemical Society". The presentation was made on May 20, 1960, and, as an added compliment to him, George was made the first recipient. Three other presentations were made at the same time: to Allen G. Gray, Ph.D. '40, Editor of Metal Progress, and National Carbon's Milton Janes who had spent a year ('31–'32) in graduate study at Wisconsin. Future presentations will be made at an annual Heise Night.

Wm. G. Hendrickson, Ph.D. '42, former director of the licensing division of the Wisconsin Alumni Research Foundation, is now vice-president of the Ayerst Laboratories, division of American Home Products Corporation, New York City. He heads Ayerst's expanded research, control and product development programs. Bill is the 34th Badger chemist in our executives category among some 2900 living alumni to whom is being sent the Department's newsletter, and known to have reached the "higher echelons of management" in industry. And that, we submit, is a very interesting statistic.

Denison University alumnus (B.S. '28) **Bernard O. Heston,** Ph.D. '33, now has a two-degree tie with his Alma Mater: an honorary D.Sc. degree was conferred upon him at the June (1960) Com-

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mencement. We understand he has been succeeded as chairman of the chemistry department of the University of Oklahoma by a former staff member of our Department, Dr. Geo. W. Murphy.

Erwin N. Hiebert, Ph.D. '54, probing the atom's impact, has written a book, recently released, "The Impact of Atomic Energy, A History of Response by Governments, Scientists, and Religious Groups." Priced at $4, it is obtainable from Faith and Life Press, Newton, Kan.

Ralph M. Hill, Ph.D. '38 was transferred last April from Esso Research and Engineering Company, Linden, N. J., to Esso Research Ltd., in London. He is handling the company's European industrial and liaison contracts there. Ralph writes that he is finding his work most stimulating, that it keeps him extremely busy, and that he is enjoying very much the opportunity to live in another country.

Charles H. Hine, M.A. '38, M.D. '43, is one of two St. Norbert College alumni named last October as the winner of its Alma Mater Award. Charles, a 1937 graduate of this school, is professor of occupational medicine and toxicology at the University of California Medical Center in San Francisco. The interlude between his master's and the medical degree was spent as a graduate student preparing himself for the Ph.D. degree ('42) in pharmacology and toxicology. In addition to his teaching duties, he is engaged as a consultant in his field, is a director of a laboratory bearing his name, and serves Frisco's coroner as toxicologist. He has served on a number of national committees, among them being the National Research's Council on Toxicology and advisory groups to the U.S. Public Health Service.

Harris D. Hineline, B.S. '23, wrote last March (1961) to give us a bit of history: elevation to grandparent status by his daughter; a statistic pertinent to the sale of his book, "Forms for the Practice of Patent Law"; and a bit of history concerning his unsuccessful hassel with the Government, in the Court of Claims, on an alleged infringement of his patent for an aeroplane altimeter. Quoting him, ". . . the potential recovery, if the patent was held valid and infringed was too much for the Court. The claims included a 'modulator' but the Court held that even though the Signal Corps called the corresponding element

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Harold F. Wakefield

Department Manager

Native son of the Sun Flower State Harold F. Wakefield, M.S. '23, grew up in Oklahoma where, in Woodward, he graduated from high school in 1914. He enrolled that fall at Southwestern College, Winfield, Kan., with the intention of making chemistry his major. One of his teachers, Badger chemist R. B. Dunlevy, B.L. '93 and M.A. '09, a former assistant to Professor Louis Kahlenberg, correctly surmising that his young pupil possessed promise of developing into a research chemist, encouraged him to pursue graduate work at Wisconsin when it would be possible for him to do so. And that opportunity came in 1921 when he was offered an assistantship by Professor Lenher. The interlude between graduation from Southwestern, A.B. '18, and his appearance on the campus was due to a brief tour of duty in World War I with the Chemical Warfare Service and a three-year employment by Solway Process Company, Hutchinson, Kan., as assistant chief chemist.

The master's degree achieved in '23, and a six-month's association with a Michigan firm working with plastics ended, "Wake" made a change in employers, one which was to shape his future career. He came to Chicago in 1924 and found employment with the late Dr. L. V. Redman who was then director of research for the Bakelite Corporation there. After two years in the Chicago laboratory he was transferred to Bloomfield, N. J., where he worked until 1945 in various capacities in research and the sales development laboratories. Transfer to the sales department in New York as a development engineer then followed. His business card, at this writing, identifies him as Manager—Phenolic and Epoxy Adhesive Markets, Union Carbide Plastics Company, Division of Union Carbide Corporation.

His "extracurricular" activities have been many. Service to the American Chemical Society includes the chairmanship of the North Jersey Section, member of the Council for some thirteen years and a three-year stint as a member of the Council Policy Committee. He was at one time the editor of the Society of Rheology's publications, president of the New York professional chapter of Alpha Chi Sigma fraternity, and chairman of Gordon Conference on Adhesion for 1960. His interests of late have centered on adhesives and as a result, he is serving on committees in this field of the Building Research Institute, TAPPI and ASTM.

In 1936 "Wake" married Nancy Kennedy who, with her sympathetic nature, has been a great inspiration to him. They have two children, William in his fifth year of mechanical engineering at Cornell, and Roxanne, a Freshman at Bucknell, her mother's alma mater.

He is a collector, not of stamps but of something some people deem to be more useful. Maybe the idea came, as a close friend once surmised, from his dry Kansas background. He collects, we understand, pitchers, steins, and bar glasses—antique and contemporary, this is. Years ago he started a hobby of cooking, an art at which he apparently became expert.

His reputation as a hard-working, faithful, and productive worker in his professional field and a generous, warm-hearted friend in personal relations, prompted the New Jersey Chapter of the American Institute of Chemists to choose Badger chemist Harold F. Wakefield as being exceptionally well qualified to receive its Honor Scroll. It was formally presented to him on May 3, 1956, at a gala dinner. The citation reads:

"In recognition of his professional activities as shown by his quiet devotion to helping and inspiring individual scientists throughout the chemical industry; for personal contributions to development and utilization of plastics; and for his unselfish participation and leadership in local and national organizations working in the interests of science."

Many a scientist of similar background would be proud to own one like it.

Happy Landings

From Pocatello, Ida., came word last fall of the birth of a daughter, Lisa Ann, on 14 October to Prof. and Mrs. John V. Bergen (**Ann Ratcliff**, B.S. '57 and M.S. (Library Sci.) '58. Ann will always be kindly remembered as the Department's efficient, helpful librarian, and for the invaluable services that she graciously gave, beyond the call of duty, to Project Badger Chemist as its associate editor.

Announcement was made last spring by the **John W. Berge**, Ph. D '59 and B.S. (Home Ec. '55), respectively, of the birth on 14 March of their second child, Joan Louise, in Wilmington, Del.

The **Gerald S. Brenners**, Ph.D. '61, have named their first child Jeffrey. He arrived on July 15, 1961. His father is a research chemist at Merck & Co.

"My wife blessed us with a baby girl three months ago, so the family is started", wrote **Carl T. Cori**, B.S. '59 on 17 February, 1961 from Rolling Hills, California.

David H. and **Carsl Clemens**, Ph. D. '57—he is with Rohm Haas—announced the birth of their third daughter, Karen Eizabeth, on 26 May, 1961.

Announcement was made in April, 1960 by the **Donald W. Ernsts**, Ph.D. '56, of the birth of a daughter, Wendy Jean.

To research assistant—and, we trust, a future Badger chemist—**Peter Maldonado** and his wife, was born their first child, a daughter whom they have named Anne; on 19 July, 1961, in a Stoughton, Wis., hospital.

Mr. and Mrs. Alfred A. Meuer (Claire Olsen), B.S. '46, announced the birth of their second child, Patricia Marie, on 5 November, 1960 in Milwaukee. Theirs is now a two-girl family. We understand that Claire is active in church work and The League of Women Voters.

The **Cameron Murchisons** (Mary Batiste, B.S. '49) announced the birth of their second son, Andrew, on 10 March.

The **Frederick F. Nelson**, Ph.D. '50, are now members of the group announcing the birth of their first child; in this case, a daughter.

Bill and **Jane Bonow Neustedter**, B.S. '39, announced their newest addition to the family album by the birth of Janice Ann on 25 January, 1961.

The **Stephen W. Nicksics**, Ph.D. '52, welcomed their fourth daughter to the family circle last year. Sandi Jo was born in Los Angeles at the time that her family was in temporary residence there.

A second child, a girl—she has been named Laura—was born on 11 July 1961—to N.S.F. fellow **Gene J. Pontrelli** and his wife. The sex distribution of the family is now an even one.

Dow chemical's project leader **James K. Rieke**, Ph.D. '54, and his wife announced the birth of their second daughter, July, 1960.

The **Martin F. Sloans**, Ph.D. '60—he is with Hercules Powder—welcomed their first child, Michelle Eileen, on 7 July, 1961.

Prof. and **Mrs. Leo H. Spinar**, Ph.D. '57, on 9 November, 1960 announced the birth of their third daughter, Karen Kristen, in Fort Collins, Colo. Leo "guesses" that he shall have to become resigned to being outvoted at home.

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in the challenged structure a 'modulator', and it performed the same function as the structure in the patent, it was not a 'modulator', and therefore the claims were not infringed. So!"

Chemistry Course graduate, **Carl A. Hoppert**, B.S. '20, cast his lot with the agricultural chemists on graduation—the department's name was changed some years later to biochemistry—and won his Ph.D. degree in this field in '25. Then he joined the chemistry staff at Michigan State (University). He informed us recently that he retired on July 1 and that his future address would be 2516 N. Grant Blvd., Milwaukee 10. "For the time being", he wrote, "I shall be content to play the role of gentleman farmer, the latter involving a small poultry farm on Fish Hatchery road near Madison. Shall probably find an outlet for my professional interests in the Milwaukee area."

Jon T. Hougen, B.S. '56, has a change of address: from S. Fairfield St., Watertown 72, Mass., to 119 Lonerque, Ottawa 2, Ontario, Canada. Jon received his Ph.D. from Harvard in '60 and now is with the National Research Council of Canada.

J. Dan Stice, M.S. '52, and his wife, the former Gretchen Shirck, recently announced the birth of their second son whom they have named Steven. The Stice family now numbers three children.

The **Bryce F. Tates**, Ph.D. '50, announced the birth of a daughter in March, 1960.

The **Doyle C. Udy**, Ph.D. '50 family of Pullman, Wash. now numbers three children. The most recent addition was a son, born in March, 1960; and by his arrival the even distribution of sexes among their children came—for the present—to an end.

Carol Ann, their first child, was born last January to the **Walter A. Vredenburghs**, Ph.D. '59. Their address, a new one, is 830 Mary Meadow Lane, Creve Coeur 41, Md.

Kenneth L. Williamson, Ph.D. '60 and his wife announced the birth of their first child, Tanya Louis, 12 July, 1961, while he was at Stanford University as a post-doctoral fellow. Unless his plans have miscarried, he is now on the chemistry staff of Mount Holyoke College.

The **Austin Harry Youngs**, Ph.D. '59, on 12 May, 1960 became the parents of their first child, Katherine Anne.

Reed A. Howald, Ph.D. '55, has moved from coast to coast since our last (1957) report on him: UCLA where he was an instructor to Harvard as assistant professor, and since September (1960) without change in rank, to St. John's University, Jamaica 32, N. Y.

We have learned that the Rev. **Chandler C. Jackson**, M.S. '49, is now Rector of St. John's Episcopal Church in Hermiston, Ore., an agricultural community in eastern Oregon which looks forward to industrial growth since the completion of the McNary dam on the Columbia river only six miles from it. He had previously served a parish in Riverside, California.

Elmer R. Johnson, Ph.D. '40, of South Dakota Agricultural College

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was a campus visitor in August (1960). His summer activities in Brookings are given over to the NSF program there.

Oshkosh native **Thomas O. Jones,** Ph.D. '37, has been named director of the newly established office of Antarctic programs of the National Science Foundation. Tom had previously been programs director, 1958 to 1961, of the Foundation's research program for the area in question.

Accompanying his contribution to the Badger Chemist fund last October, was a note from **R. J. Kepfer,** Ph.D. '30, last October in which he told us that he had just returned from White Sulfur Springs, W. Va., where he had led a panel discussion on galvanizing fluxes at a meeting sponsored by the American Hot Dip Galvanizing Association, and that for the fifth consecutive year the Kepfer and **R. C. Houtz,** Ph.D. '32, families of Chicago had attended the opening Big Ten football game of the season at Madison. Can any of our chemistry alumni match this record?

Announcement was made last August that **Scott L. Kittsley,** B.S. '42, Ph.D. (Western Reserve) '45, had been promoted to full professor's rank at Marquette University. Isn't he chairman of its chemistry department?

The parents of Hedy Rubin last fall announced the marriage of their daughter to Dartmouth alumnus **James Joseph Korst,** Ph.D. '56, in New London, Conn., on September 3, 1960. James is with Charles Pfizer & Co.

Ellis L. Krause, M.A. '13, Marietta College, Ohio, is one of six outstanding chemistry teachers chosen by Manufacturing Chemists' Association to receive a 1961 College Chemistry Teachers Award. It includes a medal, a citation, and $1000. Ellis is the third Badger chemist within our memory to have been so honored. He received the award early in June at the time of the Association's 89th annual meeting at the Greenbrier, White Sulphur Springs, W. Va. It is a recognition given to teachers of undergraduate chemistry who have been "personally responsible over a period of years for awakening in students a genuine interest in chemistry, for inspiring them to serious intellectual effort in studying that field and for developing that interest into a continuing dedication."

Another name has been added to our growing list of award winners, and the individual in question is **Konrad B. Krauskopf,** B.A. '21, possessor of the doctorate in both chemistry and geology, and now associate dean of Stanford's School of Mineral Science and member of the editorial board of **Science.** He has been awarded the Arthur L. Day gold medal of the Geological Society of America. Deemed to be one of the most important honors in its field, it was given him for his brilliant research into the characteristics of ore-bearing fluids. Konrad, at this writing, is in Goettingen, Germany on sabbatical leave for the study of thermodynamics. While abroad he spent three weeks last March in the Soviet Union as a visiting scientist under the aegis of the Academy of Sciences exchanging views on education and research with Russian geologists and geochemists. His itinerary took him to the universities and institutes of the Academy of Moscow, Leningrad, Kiev and Tashkent. Received "with the greatest cordiality" nearly every-

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G. R. Shaw

Radio Engineer

Retirement last December (1960) for G. R. (Bob) Shaw, Ph.D. '20, meant the end of an active, highly successful and distinguished 40-year career as a radio engineer. During his association with the electron tube industry—it began after graduation from Wisconsin—he has seen, and been a part of, the growth of radio, TV, and radar. It is an affiliation marked by the presentation to him of two awards, achievements in engineering-management, leadership in sponsoring professional activities, patents professional activities, patents granted him, active participation in professional societies, and the recognition of his success in the electronics field by a scientific institute.

Bob arrived on the campus in 1916 as a Washington and Lee alumnus, B.A. '15 and M.A. '16, with a one-year teaching experience at his alma mater. He began his graduate studies as a teaching assistant in the Department. They were temporarily halted by a tour of duty in World War I (1917–'19) in the Chemical Warfare Service but were resumed, with instructor's rank, upon his return to civilian life. The doctorate achieved, he became a research chemist with General Electric National Lamp Works at Cleveland.

Resigning in 1929, he took a position with the RCA Manufacturing Co., Radiation Division, as head of the Chemical Section. Successively, he held positions as manager of the Research and Engineering Department and manager of Harrison Engineering. In 1945, upon completion of a year's service as a civilian in Scientific Research and Development during World War II days, he was named Chief Engineer of RCA's Electron Tube Division; and it was on this note that, at age 65, he retired and became a consultant to the company.

If our memory runneth not to the contrary—may any one in a position to correct us speak up—Bob is the only Badger chemist, as an employee, to have received awards from two different companies in appreciation of services rendered them. His first recognition came in 1926 when General Electric gave him the Coffin Award for distinguished services; in his case the development of an automatic method of carbonizing filaments for radiotron tubes. His second recognition came in 1945 when RCA tapped him as one of fifteen employees to receive the Victor Award of Merit. His award spells a distinguished service in the supervision of the development of television tubes for both black and white, and color television; for super-power transmitting tubes; and for engineering management. Both of his awards consisted of a certificate; the first was accompanied by an honorarium, the second by a fine watch. His last recognition came in 1954 when the Institute of Radio Engineers elected him as a fellow of their society.

Bob married Wisconsin alumna Helen Churchill, B.S. '18, a home economics graduate. Their four children have presented their parents with fourteen grandchildren.

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where, he noted that Soviet geologists, although busy with a host of projects, still in their off-hours enjoy talking politics. A report of his observations was published in **Science** August 25. We understand he will teach at MIT before returning to Stanford in the fall of 1961.

Chemistry Course graduate, **Carl H. Krieger,** B.S. '33, Ph.D. (Biochemistry) '40, director of the Wisconsin Research Foundation's general laboratories until some five years ago, was promoted last February by Campbell Soup Company to head its new food science and nutrition laboratories. We understand that the facilities were planned to take care of the company's expanded program in basic food research and to speed up projects now under way in product and bacteriological research. The laboratories—one is in Camden and the other in Moorestown, N. J.—occupy 39,000 square feet and are staffed by 90 scientists, technicians and assistants, half of whom work exclusively on basic research in the life sciences. Our University recently received a gift of $189,000 from Carl's employers as an expression of their interest in the latter field. It has been earmarked for addition to the funds needed to build and equip a genetics research building.

C. Warren Lalk, B.S. '39, and his brother **Robert H.,** B.S. '41, are in the employ of Dow Chemical Co., at Midland, Mich.: Warren as an analytical chemist and Robert as a section head in coatings.

Risto P. Lappala is still in the employ of Bjorksten Research Laboratories, not at Madison, but at their Houston, Texas, office.

UW–M's associate professor, **Durward C. Layde,** M.S. '40, is author of a 350-page book, "Introduction to Quantitative Analysis." It appeared this year. Allyn & Bacon, Inc. are the publishers.

Wm. E. Link, Ph.D. '54, made the theme analysis by infrared spectroscopy the subject of two papers which he presented last spring: one in May at St. Louis before the American Oil Chemists' Society and the other in June before a symposium sponsored by the Fargo North Dakota Agricultural College.

William F. Schroeder

Vice President

On making a cursory examination of the activity records of the Department's Chemistry Course graduates on whom we have some information, we were pleased to learn that about six of them are serving their respective employers as vice presidents. William (Bill) Schroeder, B.S. '38, is one of them. He is in Memphis, Tenn., with HumKo Products, refiners and processors of vegetable oils and manufacturers of hydrogenated vegetable shortening. He joined the firm on January 1, 1941, as director of bakery research and customer service. With the job came the responsibility of setting up a research laboratory. Before that he had been employed by a General Foods Corporation affiliate—if our memory serves, the company's product was Swan's Down Cake Flour—in his home town of Evansville, Ind. Early last January, on completing a twenty-year service affiliation with HumKo he was advanced to his present position with appropriate recognition given him by the senior officers of the firm at a complimentary lunch in his honor. The month of May also had a twentieth anniversary for the Schroeder family: their marriage. And from that union have come three children: Paul, 18; Bruce, 16; and Ann, 10.

During World War II, Bill served as a commercial pilot flight instructor and teacher of aeronautical engineering at Mississippi State University. It appears that he got more out of college than just a diploma.

Wm. D. Luker, Ph.D. '55, writing from State College, Mississippi, informed us that Prof. **Paul Wartman,** M.S. '21, Ph.D. (Cornell) '25, has retired.

George B. Lyons, B.S. '21, in 1957 summarized his career as an educator by saying that he had completed 35 years of teaching in four Wisconsin high schools and that he was looking forward to an early retirement. Retirement has now become a fact. At last report (January 1960) he was still living in Kohler, Wisconsin, but was making preparations to take off for Naples, Florida.

W. Blair MacQueen, M.A. '23, is carrying on the family's century-old (1858) furniture business in Oconto, Wis. He has been a licensed funeral director there for some thirty years and is now first vice-president of the Wisconsin Funeral Directors Association.

The name of our three-degree **Howard V. Malmstadt,** Ph.D. '50, was among the 23 members of the Society listed early in January as new appointees to its applied publications advisory boards. His post: Analytical Chemistry. Howard was the guest speaker of three local sections during the month of January on the subject "Some New Spectra and Electroanalytical Techniques." His hosts: Cornell, Western New York, and Syracuse Sections.

Leonard Mattano, B.S. '41, went on to Michigan State for graduate work in bacteriology, Ph.D. '48. He is now employed by Dow Chemical in its Stros laboratory.

Reports from Long Beach (Calif.) State College, where he holds an associate professorship, reveal that **Darwin L. Mayfield,** Ph.D. '50, some-time member of the chemistry staff at the University of Idaho and a Fulbright lecturer at Kasetsart University in Bankok, Thailand, is a member of a three-man research team—an organic chemist and two plant physiologists—that had made a "major breakthrough" in the search for the chemical basis of the flowering of plants. The trio extracted a hormone, we are told, from a roadside weed known on the west coast as cocklebur, and used it to trigger flowering in other cocklebur plants. Although plant physiologists have long suspected that flowering is controlled by a hormone, and gave the suspected substance the name of "florigen", previous attempts to isolate it from the tissues of flowering plants had failed.

The year 1961 began auspiciously for **Frank J. McClure,** Ph.D. '42. Two awards were given him in the same month! Frank is chairman of the research center of the Applied Physics laboratory of Johns Hop-

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kins University. He, the first recipient of the National Aeronautics and Space Administration Award of $3000, was honored for his invention of a Satellite Doppler Navigation System, which became, we have been told, the basis of the Navy Department's navigational satellite program, Project Transit. The Hillebrand Award of the Washington, D. C. local section (Chemical Society of Washington) was given him as a member of the Section in recognition of his "original contributions to the science of chemistry". Specifically he was cited for his "masterly contributions to the understanding of the combustion of solid propellants in unstable and violently interacting environments, developing of powerful theoretical analyses in the borderline areas of physical chemistry, fluid dynamics, and acoustics, thereby illuminating previously unrelated and empirical observations and, by identifying the important variables and their interrelations, guiding the experimentalists towards new discoveries." He is a protege of Professor Hirschfelder.

Congratulations are in order to **John S. Meek**, B.A. '41, Ph.D. (Ill.) '45, on his promotion to professor of chemistry at the University of Colorado. He is serving, also, as president of the local chapter of Phi Beta Kappa and the Flatirons Foto Club.

Stanley B. Mirviss, Ph.D. '51, has been promoted to research associate at Esso Research and Engineering, a position which he says allows him more freedom in his research activities. Too late for mention in the last newsletter we learned that Stanley and his wife had spent a most enjoyable three weeks in Europe in the summer of 1959. He had gone abroad to attend a series of meetings on coordination chemistry and organometallics (IUPAC).

The name of **Therald Moeller**, Ph.D. '38, must now be added to our growing list of Badger chemists who are serving, or have served, the Society as chairmen of a local section. His colleagues at Illinois had previously elected him secretary, alternate councilor, and vice chairman. He is an Oregon State College alumnus in chemical engineering, B.S. '34, served Michigan State University as instructor, 1938–40; and joined the chemistry staff at Illinois in 1940.

We have learned that **Albert L. Myerson**, Ph.D. '49, has left General Electric where he was manager of physical chemistry in its missile and space vehicle department. He is now at the Cornell Aeronautical Laboratory, Buffalo, N. Y. His position: principal research physical chemist.

Norman A. Nelson, Ph.D. '52, wrote us last November that he was no longer associated with MIT, and that he may be addressed at Kalamazoo, Mich., where he is employed by the Upjohn Company's department of chemistry.

Lowell E. Netherton, Ph.D. '50, has been made director of research at Victor Chemical Works, Chicago Heights, Ill., Division of Stauffer Chemical Company. Lowell came to Wisconsin the possessor not only of a bachelor's degree which Western State Teachers College, Macomb, Ill. granted him in 1944, but also a WW II service record, Lt. (j.g.) USNR. The latter covers a nine-month training course at MIT which led to an Aerological Engineering Certificate, and service with the U.S. Coast Guard, the Weather Bureau, and the Navy. He served the Department as a teaching assistant in Chemistry 2 for some three semesters and then was on his own as a research chemist with his present employer.

A former Willamette University colleague of **James C. Nichol**, Ph.D. '48, wrote us last fall that Jim is now on the staff of the University of Minnesota at Duluth.

Stephen W. Nicksic, Ph.D. '52, is back with his family in El Cerrito, Calif., after a year's leave of absence from California Research to assist the Los Angeles Air Pollution Control District (APCD) as research coordinator for Western Oil and Gas Association. He de-

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What the '61-ers Are Doing

All members of the Class of 1961 were sent a letter by Chairman J. D. Ferry in which he expressed the Department's interest in hearing of their plans for the future. This is what we learned from those who answered his request.

Chemistry Course graduate **Herbert A. Beall**, after spending a summer in the employ of Esso Research, Baton Rouge, La., will do graduate work at Harvard on an NSF fellowship. A similar program is that being followed by classmate **Allan A. Button** who got a taste of employment in industry by spending the summer in Woodstock, Ill., with Morton Chemicals under the tutelage of research director, Badger chemist Robert L. Frank, Ph.D. '40. School year's opening found him at the University of Illinois pursuing graduate work on a Roger Adams fellowship. Two members of the class have made the master's degree their objective: **Irene M. Boerschinger** and Chemistry Courseman **Terrence E. Cooprider** in chemistry. Industry has attracted four members of the class: Chemistry Course graduate **Elizabeth A. Kroes** accepted Abbott Laboratories' offer of a position in the organic research division; **William L. Ogren** is with Parker Rust Proof Co. of Detroit; **Doris A. Wambach** and **John Stade** are applying their training in analytical chemistry in the laboratories of Dow Chemical and Mallinckrodt, respectively. **Robert G. Kemmerling** indicated his intention of preparing for the ministry at Northwestern Lutheran Theological Seminary of Minneapolis; and **David C. Lewis** appears to be headed for the academic life via a teaching assistantship at the University of Colorado; **James F. Sobieski** has an appointment at the Institute of Paper Chemistry, Appleton; and **Charles Underbrink** has joined the staff of the U.S.D.A. Forest Products Laboratory in Madison. He appears to be toying with the idea of doing some graduate work while so employed. **Thos. F. Danelski** opines that Service looks as if it will be calling and, upon completion of that obligation, graduate studies. **Kenneth Dempskey's** plans appear to be indefinite. "Interested in chemical sales", he replied to the questionnaire. But there is nothing uncertain about **Carol Evers'** plans for the immediate future. She began working in the Department last summer as project assistant to Professor Williams and expects to continue doing so until her husband obtains his M.S. in nuclear engineering.

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veloped a bromo-coulometric method for detecting olefins both in the atmosphere and in exhaust gases. In recognition of this accomplishment and services rendered, Steve received the Clean Air Award for 1960 from the County Board of Supervisors.

Warren D. Niederhauser, Ph.D. '43, has returned to the Philadelphia laboratory of Rohm & Haas Company from its Huntsville, Ala. location. He is now a research supervisor.

Morris L. Nielson, Ph.D. '41, is serving Monsanto's Dayton operation as a group leader in exploratory research. We understand that he has some 35 patents and publications to his credit. The Nielsons have three boys ranging in age from 18 to 13 years. The oldest is a Freshman at Kenyon College, Ohio. Morris is currently chairman of the Gordon Research Conference (inorganic).

West Virginia Wesleyan alumnus **William S. Norman,** a newcomer on the Department's teaching assistant staff, is at this writing making preparations to join a group of twenty university students who will spend two months this summer traveling in Russia under the auspices of the National Student Council of the YMCA.

Robert M. Nowak, B.S. '53, Ph.D. (Ill.) '56, has been with Dow Chemical since he left the Illinois campus.

Mary Jane Oestmann, Ph.D. '54, is now a senior research chemist—up from principal chemist—in Radioisotopes and Radiation Division of Battelle Memorial Institute. She is also working in the Air Force-sponsored Radiation Effects Information Center and finds time occasionally to speak before scientific bodies such as Denison University's Scientific Society on ionizing radiation, and the Society of Automotive Engineers meeting in New York concerning radiation's effects on materials and equipment.

For **Frederick C. Oppen**—he went the academic route from B.S. '32 to Ph.D. '36—the year 1960 was a big one. He changed jobs in the summer, that is from Marathon Paper to Kimberly Clark, and "had a glorious month-long western camping trip." The Oppen family is now living in Neenah, Wis.

Reference was made in newsletter 4 to assistant professor **Howard B. Palmer,** Ph.D. '52. The latest news is that the time has come to up-grade his rank to professor. As professor of fuel technology at Penn State University he heads his department.

Ross Paull, B.A. '24, M.D. (Harvard) '27, majored in physiological chemistry under the guidance of Prof. Harold C. Bradley and after graduation, continued his premedical studies to the masters degree ('25). He then enrolled in Harvard Medical School. On graduation he began practice in La Jolla, California. He has limited himself for the past twenty years to internal medicine. The Paull's have two children: Jane, who is a junior at U.S.C., and Barry, a freshman at the University of California (Berkeley).

Chemistry Course graduate, '50, **Donald L. Petitjean,** Ph.D. '54, has been named president-elect of the Spectroscopy Society of Pittsburgh.

Andrew E. Potter, Jr., Ph.D. '53, wrote last November from Beren, Ohio to tell us how much he and his wife enjoy looking for news of old friends in Badger Chemist. The Potters are a three-boy family. They accompanied their parents to England last summer where their father studied at University College in London.

Allen K. Prince, Ph.D. '56, was a campus visitor last fall seeking talent for Dow Chemical. He is a section head in chemical products.

Sirhatti V. Rao, Ph.D. '58, has returned to his native India with his family after an absence of six years, pleasantly and profitably spent at Wisconsin first as a graduate student and then at Michigan on a post-doctoral fellowship. He is at this writing in Hyderabad where he is on the staff of the Regional Research Laboratory there.

David C. Remy, Ph.D. '59, is back on the campus again—he left Du Pont last summer—this time as a project associate in oncology at McArdle Memorial Laboratory.

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Wisconsin at Pittsburgh Conference

Badger chemists and faculty members with their graduate students made a sizable contribution to the 1961 program of papers presented at the Pittsburgh conference on Analytical Chemistry, February 27 to March 3. And in doing so they helped focus attention upon the research activities in this field in the Department.

Prof. Monroe V. Evans, B.S. '53, with graduate student Leonard C. Afremow, M.S. '61, as co-author, read a paper in which was described a conversion of a commercial double-beam infrared spectrometer to grating operation. Prof. Irving Shain and National Science Foundation fellow Sam P. Perone, B.S. '59, took part in the symposium on polarography. They reported work done on an extension of stripping analysis to the determination of halides with a silver microelectrode. The method which they developed was applied to solutions containing as little as about one part per billion iodide.

Herbert J. Dutton, B.A. '36, of the Northern Utilization Research Branch, U.S.D.A., came up from Peoria, Ill. to address the Gas Chromatography - Instrumentation group on monitoring gas chromatography for certain hydrogen- and carbon-labelled compounds by liquid scintillation counting. Prof. Howard V. Malmstadt, Ph.D. '50, of the chemistry staff at Illinois, contributed two papers to the program presented before the Analytical Chemistry—General group. Each was co-authored by a graduate student. In one paper was described a specific enzymatic determination of glucose by an automatic potentiometric reaction-rate method; in the other an automatic derivative titration with a unique method of end-point detection for the determination of tetraphenylboron following the quantitative precipitation of potassium and for ammonium ions.

U. S. Steel's research chemist Robert P. Frankenthal, Ph.D. 1956, presided at the symposium on polarography; and Prof. V. W. Meloche quite appropriately, as Chairman of the Department's division of analytical chemistry, although not actually participating in the program, addressed the research group at Koppers Company on the subject of instrumentation and trace analysis.

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Kathora Remy, M.A. '31, sent us from San Antonio, Texas a brief note last Christmas time in which she stated that she had a new job: principal of a large Mexican school.

William R. Rinelli, B.S. '33 was promoted last January to a vice-presidency at Ansul Chemical Company, Marinette, Wis. Bill is now one of the thirty-four Badger chemists among some 2900 of the Department's alumni known to have reached the "upper echelons of management"; and this group is not made up exclusively of Ph.D.'s!

Armand J. de Rosset, Ph.D. '39, was a "visiting hireman" last fall, scouting for Universal Oil.

Frank E. Ruppert, M.A. '15, at age 70 plus, confesses that, like a lot of other people, he doesn't know when to quit. He has had a varied career since he left the campus. After having taught for ten years he took an industrial position and in this activity served, in turn, three employers until retirement. Finding life in Florida—and inactivity—not to his liking, he qualified for a Federal Civil Service job in the U.S. Army Engineer Research and Development Laboratories at Fort Belvoir, Va., where, as of November 15, 1960, he was chief of the Rubber Section of Materials Branch.

John C. Safranski, Ph.D. '42, has made a change in employer: from Barrett Division, Allied Chemical & Dye in Toledo to Dow Chemical in Midland, Mich. His position: research chemist in its Stros laboratory.

Mr. and Mrs. Wm. C. Gin of Sacramento, Calif. announced the marriage, on June 21, 1960, of their daughter Loretta Janice to John Jenghis Sah, son of **Peter P. T. Sah,** Ph.D. '26.

Russell C. Sauers, B.S. '42, is employed by Dow Chemical in its general laboratory, Ludington, Mich., and **John A. Schmitt,** Ph.D. '53, is in the styrene laboratory in Midland.

Ralph Sayre, M.S. '15, was put on American Cyanamid's retired list in 1957, and since then has been doing some part-time teaching, chiefly algebra, in a boy's prep near New Haven, Conn.

Homer A. Piper

Honorary Chairman

Madison-born Homer Piper, B.S. '14, left the city upon graduation and headed for the east. After a brief stop in Rochester, N.Y., as an Eastman Kodak employee, he went to Washington, D. C. to take a position in the Bureau of Chemistry, U.S.D.A. Then he made a move which in a sense was to be prophetic of a career in the graphic arts: as an emulsion chemist in the employ of Defender Photo Supply Co. World War I, however, set the stage for a temporary change in his plans in that he did a tour of duty with the U. S. Signal Corps, Bureau of Science and Research. At war's end (1918) he again became an emulsion chemist; this time with Ansco in Birmingham, N. Y. In 1924 he joined the Haloid Company—now Haloid Xerox, Inc., of Rochester, N. Y.—in a similar capacity; and with the distinction, if any, of being the first degree-holding chemist on the company's roster of employees. It was an association which continued for some 35 years during the course of which he was to move from the laboratory to the manufacturing end of the business, to a place on the board of directors and, finally, the executive offices of the corporation, first as vice president and then as chairman of the board. Retirement for him does not spell complete severance from the corporation. He was named consultant to the Board in 1961.

For Homer it was a rich and rewarding experience; for the company a profitable one. In September, 1929, just as the severest depression America has known was about to get a stranglehold on industry, he perfected Haloid's "Record" paper. Because of the rapid rise in popularity of this new material, Haloid employees were never affected by the depression. There was work aplenty for the employees. And all because Homer "with imagination and horsesense blended in proper measure by time and patience" was responsible for Haloid's first major achievement in the photocopying field. It is a system for copying documents by use of a dry, chemical-free, electrical process.

On September 1, 1959, on the occasion of his 35th anniversary with Haloid Xerox, he received a citation from his fellow-members of the Board of Directors. It reads in part:

> ". . . . Be it resolved that we, on behalf of stockholders, employees, his associates on the Haloid Xerox Board of Directors, acknowledge with deep and sincere appreciation the valuable services he has rendered these many years. . . ."

Three-degree former Milwaukeean, Wisconsin alumnus **E. R. Schierz,** B.S. (Ch.C.) '16, Ph.D. '22 reached the end of his academic trail last June and retired as professor of chemistry at the University of Wyoming. Among his numerous extra-curricular activities are service to the Colorado-Wyoming Academy of Science in 1954 as president and, that same year, as associate director of an NSF-sponsored chemistry institute, Wyoming's first one. We have no knowledge, at this writing, as to his present activities.

Walter T. Schrenk, Ph.D. '22, is one of two veteran Missouri professors recently honored for long and outstanding service to chemical education. Walter, who has been with Missouri School of Mines since 1923, received a gold ACS pin and a letter of appreciation and commendation from his friends.

Jule P. Schroeder, Ph.D. '48, paid the Department a visit last fall on a recruiting mission for Union Carbide.

The Florida Section of ACS is bounded on all sides by water except for its northern border. It covers an area of some 750 miles in its largest dimension. To meet the needs of its members the Section is divided into five units; and **Harry P. Schultz,** Ph.D. '46, is chairman of the Miami Subsection. Because of his office, there fell to him the job of serving as arrangements chairman for the Section's annual Florida meeting-in-miniature which was held this year, May 4 to 6, in Miami. Harry spent the summer of 1960 as a staff member of the Chemistry Department of

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Michigan State University. His family took up residence at Eagle Lake, near the grandparents Schultz in Racine, Wis. We understand that it had been a wonderful summer for the family, what with a lake and the family farm nearby. And when the summer-silent schools again came to life Pearle (Mrs. Schultz) resumed her duties at Cutler Cove School, where she is principal of this 12-graded college prep school. Stephanie, their oldest child, is a happy third grader, and the twins, Alison and Thor, are proud of their second grade status.

John F. Simpson, B.S. '51, M.D. '57, left the campus on completion of his medical studies and began a two-year training in Boston in internal medicine. That completed, he joined the Navy as a lieutenant in the Medical Corps. Last December he still had six more months to serve as Lt., M.C., N.S.N.P. If his plans have not miscarried, he is at the University of Michigan Hospital for further studies. He married a Madison girl, the former Harriet Kirchoff. The Simpsons have one child, a boy, Alan Bradford.

Du Pont's **Lester S. Sinness,** Ph.D. '35, on seeing the sketch of the Department's new research building, wrote that he was tempted to return to Madison in order to get back his old job as teaching assistant in physical chemistry. But then he wondered if, in his "present state of repair", he would have some difficulty "distinguishing between a Bunsen burner and a Beckman thermometer."

We have learned from **Florence Ritchie Smith** (Mrs. Charles, Jr.) that her daughter is married, that her son is a student at The University of Georgia, and that she is filling her time as a publications engineer with Hazeltine, writing and editing proposals.

William L. Smith, B.S. '17, retired as of Nov. 30, 1960, as a B. F. Goodrich employee (newsletter 1959).

The **C. Harvey Sorums,** Ph.D. '27, qualified for membership in the Grandparents Club when daughter Jean (Mrs. Philip Mills, Jr.) presented her parents with a girl. Allison was born on 7 October, 1960 in Lawrence, Kan., where her father is a medical student.

Willard F. Spengeman, Ph.D. '35, some-time Kimberly Clark research chemist and since 1937 a Du Ponter, is the director of its technical service laboratory.

A research report from **Leo H. Spinar,** Ph.D. '57: investigating the properties of boron and aluminum phosphatides on a hefty research grant from Texas Instruments. Because of an increase in the enrollment in physical chemistry he had to "retire" from teaching Freshman chemistry.

The **James M. Sprague,** Ph.D. '34, lectures which are being made possible by a grant from Merck Sharp & Dohme were delivered this year, as a series of three, from 30 January to 2 February by Prof. Saul Winstein of the University of California (Los Angeles).

From a pleasant visit last October with Shell Oil's **Marshall Sprinkle,** Ph.D. '32, we learned that his son Robert, B.S. (Colorado) '59, is with Educational Travel, Inc. of New York—he arranges student foreign travel tours —and that his daughter Marcia Ann is a Freshman at Oberlin, and James, the youngest in the family, is a first-year high school pupil.

Merck & Company's senior research chemist **Charles H. Stammer,** Ph.D. '52, has been with his present employers since 1952. Two children, David 7 and Nancy 5, make up the Stammer family.

It's a promotion for **Max H. Stern,** Ph.D. '42, to research associate at Distillation Products Industries of Eastman Kodak.

Ralph E. Dunbar Scholarship

The staff of the School of Chemical Technology of North Dakota State College, together with relatives and friends of the late Ralph E. Dunbar, Ph.D. '33, honored him by establishing a Scholarship Endowment Fund bearing his name. The scholarship will be given annually, funds permitting, to a needy and worthy student in the School of Chemistry.

Monmouth College Alumnus, B.S. '51, **James Daniel Stice,** M.S. '52— he prefers to be known as J. Dan —recently paid us a visit; and because of that visit we removed his name from our "addresses wanted" list. Even before he had severed his connections back in about 1954 as an examiner with the U. S. Patent Office in Washington, D. C., we had lost contact with him. We knew that on leaving the campus he had set his sights on a career in patent law. We learned later that, to that end, as a Federal employee, he had used his free time to attend night classes in law. After a year with Shell Development in Emeryville, California, in the patent division, he came back to the midwest in a similar capacity with General Mills, in Minneapolis; and more law school. His objective reached in 1957 via an LL.B. degree from William Mitchell College of Law in St. Paul, he took a position there as patent attorney with Carpenter, Abbott, Coulter and Kinney. Stice family address: 3981 Portland Ave., White Bear Lake 10, Minn.

We have learned from **Henry B. Merrill,** Ph.D. '21, that **Hosmer W. Stone,** Ph.D. '21, had retired after having served USLA for 39 years. The Stones at that time were taking a trip around the world.

The year 1961 was an eventful one, honors-wise, for Columbia's professor Badger chemist **Gilbert J. Stork,** Ph.D. '45. The North Jersey ACS gave him the Baekeland Award—a medal and $1000— in recognition of his accomplishments in the field of the alkylation of ketones, and Lawrence College, Appleton, conferred upon him an honorary doctorate at its June 11 Commencement. A sentimental tie with the home front suggests itself in the latter recognition in that **Stephen D. Darling,** B.S. '55, —his father is a member of the Lawrence faculty—did his doctoral work under the guidance of Professor Stork.

Albert W. Stout, Ph.D. '34, well known on the Pacific coast as an authority in the field of forest products research, has joined Georgia–Pacific Corporation's department of research and development in Hillsboro, Oregon. He had served Western Pine Association as research chemist for 16 years and prior to that Linfield College as professor of chemistry and

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A Godston Travelogue

John Godston, Ph.B. '28, who as our readers may perhaps recall, is a member of a group of engineers—he is the only food chemist—in the employ of J. G. White Engineering Corporation, consultants to the Government of the Republic of China. Accompanied by his wife and daughter Ruth, he made a trip home last year. It was an eleven-week, air-borne global vacation of some 35,000 miles during the course of which they "zigzagged" to places of historical or scenic interest. The family was given a typical Oriental send-off on May 12 with a parade led by a Chinese band and a ten-foot banner. En-route home via Europe to Staten Island they visited twenty cities; and ten back to Taipei via Hawaii and the Philippines. Comments on some of John's vivid impressions of places visited follow:

In Rangoon, Burma, it was the towering temples and smugglers of jewels in their shoes, and bedding, that caught his eye; the depraved religious fanatics lying in dirty streets and wading along the muddy shores of the Ganges river at Calcutta, India were not unnoticed; then at Agra, in the New Delhi area, he was thrilled by the fabulous, lovely Taj Mahal, a mogul's monumental tribute in white marble built several centuries ago in memory of his favorite wife. Back in New Delhi he confesses to have "wallowed in the lap of luxury along with diplomats from all over the world at the sumptuous Osaka Hotel". He found it too hot at Karachi in Pakistan to stay longer than overnight before take-off for the Near East. Some 1250 air miles later, and over the Arabian desert, the family was in Saudi Arabia where they "sintered through an eight-hour exasperating delay" while Qantas fixed its plane. Then after another 1250 miles—and a bird's eye view of more sand—it was Cairo and a visit to the Sphinx, and the pyramids with their omnipresent tattered beggars. After that the scenery changed; the azure blue Mediterranean lay below them. They "slipped by" Greece except for two days at Athens. After that it was Rome and a visit to St. Peter's Cathedral which "cast a deeper religious spell over (them) than all the dozens of temples visited in Asia and the Far East". Naples as the point of departure for the lovely, rocky Isle of Capri was their next stop. Says John, "The itsy bitsy, teeny weeny bikinis (there) were smaller than those we saw on the Athenians, if possible—or I saw more, when looking at the languorous celebrities from all countries of Europe sunning themselves all over the beach at Capri."

Then on to industrially-teeming Duesseldorf, the Paris of West Germany; after that to Copenhagen and a visit to Tivoli (the city's Coney Island) where the family stuffed themselves on its infinite varieties of delicious smorgasbord; and then on to Amsterdam for the hop to New York and a visit with old friends and neighbors; and finally a stopover in Madison before emplaning July 23 at Los Angeles for Hawaii and a look at its pineapple-canning industry. (He found that "Hawaii cans more pineapple than the canners on Taiwan, but not better".)

As to Manila, he got the impression that U.S.A. did more for the Philippines than France did for Saigon or England for India. He opined that the city is cleaner and has more beautiful public buildings and spacious streets. The world's bargain counter in Hong Kong had little to offer them, "penniless after our world trip and collection of souvenirs".

Because they had visited several south-eastern Asian cities in November of 1960, the Godstons bypassed Bangkok in Thailand, a city of some 327 temples; Britain's Crown Colony, Singapore, the pearl of the Orient, thanks to British control; and Saigon in Vietnam, where French influence is obvious ("beautiful part-caste women and colorful dresses").

Comfortably settled again in their Japanese house in Taipei by August 1, after having been up in a kind of orbit themselves around the world, John reviews the lessons that he had learned. To wit: there are many strange people in many countries, but almost everyone was friendly, courteous and helpful; all people everywhere are human and basically do not differ from us much more than we do from our neighbors. That, contrary to some of the absurd remarks made last November (1960) by vote-conscious candidates for office, he was satisfied and proud again of the U.S.A.; and pleased to learn that all whom he met on his travels think America is best.

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biology. Recognized nationally as an authority on wood preservation, utilization of wood residues, glues and finishes, he is chairman of the preservative standards advisory committee of the National Woodwork Manufacturers' Association. His extra-curricular activities: past chairman of the Oregon Section, ACS, and past president of the Milwaukie Kiwanis Club and Milwaukie Toastmasters. He is also active civically as a director on the Oak Grove (Ore.) School Board and Clackamas County Rural School board. The Stouts announced the marriage, on 20 August, 1960, of their daughter Margaret to the Rev. David Steward. Both young people are pursuing graduate work. They live in Springdale, Conn., where David is assistant minister of the Methodist Church.

When Syracuse alumnus (B.S. '21) **John N. Street,** Ph.D. '26, was advanced last June by Firestone Tire & Rubber Company to its newly created post of vice president in charge of research, he became, within our present knowledge, the 38th Badger chemist—there have been some 2800 of them—to have been made an executive officer in their respective companies. John enrolled in our Graduate School as a teaching assistant after having acquired the master's degree at Iowa in 1923. The doctorate achieved, he entered the employ of Firestone as a research chemist; and in the intervening 35 years he rose, successively, from assistant director of chemical research, to assistant director of chemical laboratories, and then to director. It is an affiliation which was interrupted only temporarily in 1944 when he served with the Office of Rubber Research. He married Wisconsin alumna **Dor-**

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This 'n' That . . .

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othy Hastings, B.S. '26. The Streets have three children.

Bryce F. Tate, Ph.D. '50, is now at Pfizer's new research center, Groton, from Greensboro, N. Carolina.

Jane Ehrlinger Taylor (Mrs. Martin S.) B.A. '31, is now making her home in Tucson, Ariz. Her address: 740 N. Palo Verde.

Is **F. Lowell Taylor,** B.S. '50, Ph.D. (Minn.) '35, now serving Dow Chemical as librarian at its Midland location?

Hercules Powder Company's research associate **Howard G. Tennent,** Ph.D. '42, was a campus visitor on May 10, 1961 and at that time addressed the Department's inorganic chemistry seminar on the subject "Some Transition Metal-Alkyl Chemistry".

Retiree **George G. Town,** Ph.D. '22, is still active on special contract by the Regents to administer, part-time, the instruction in chemistry in the Extension centers.

We learned early in August that the **Rev. Walter P. Trost,** B.S. '41, has a new address: from Mawuli, Box 45, Ho, Ghana to R.F.D. 1, Newton, Iowa.

We understand that **Ralph F. Turner,** B.S. '39, is in Vietnam on a three-year leave of absence from his duties in Michigan's Department of Police Administration.

Doyle C. Udy, Ph.D. '50, wrote last January that after ten years of research on cereal quality problems with USDA, ARS, he had a rather good opportunity, as of 1960, to become "self-employed". He has developed, he said, a new rapid method of estimating protein in cereals and other natural products, and in September, 1958, he formed the Udy Analyzer Company. He describes the apparatus as "a unique assembly of specialized equipment, which enables rapid protein tests to be made 'on the spot' by an uncomplicated, easily mastered, new method of analysis that fulfulls a long-standing need." For details we refer our readers to Cereal Chemistry 33:1956, page 190.

The **Vanderveer Voorhees,** Ph.D. '24, have now achieved grandparenthood. They have two daughters. Van writes that they live on a 15-acre apricot "ranch" and enjoy it very much, particularly when visitors from "east of the Rockies stop in and stay a while."

Announcement was made on 9 July, 1960 of the marriage of **Harry Wandrus,** ex '51, to Marilyn Stodgell Biskin. Harry is a museum preservation specialist with the U. S. Department of Interior in Washington, D. C.

A note was received early in January of this year from sometime teaching assistant (1945–46 I) **Leon F. Wardell,** M.S. '47. We learned that (a) upon graduation he took a position with General Electric Company, (b) he left GE in 1953 and spent a year in a small Bible School, (c) he enrolled in Princeton Theological Seminary from which he graduated, B.D. in 1957. Ordained as a minister that same June, he accepted the pastorate of the Muncy, Penn. Presbyterian Church. He has been minister of Crisp Memorial Presbyterian Church, Baltimore 25, Md. since 1960. The Rev. Wardell, if our memory serves, is the third Badger chemist to have entered the ministry. The Wardells have three children; 2 boys and a girl.

Martin F. Weslowski, B.S. '57, has joined the laboratory staff of Decar Plastic Corporation of Middleton, Wis.

Has **Don B. Wetlaufer,** B.S. '46, Ph.D. (biochemistry) '54, made a move from Harvard and Childrens' Medical Center in Boston, where he was a research associate, to University of Indiana Medical School to become assistant professor of biochemistry?

Donald D. Wheeler, B.S. '50, continued his education at Kansas State Teachers College, where he earned his masters degree and then the Ph.D. '54. He now is a research chemist at Dow Chemical.

John P. Whiffen, ex '32 Ch.C. C., is now the Madison representative of Lincoln National Life Insurance Co. He lives in suburban Maple Bluff. Son James D., M.D. '55, is serving his residency at the University Hospitals.

Bennett R. Willeford, Ph.D. '51, is another one of our Badger chemists who is serving a local section of the Society (Susquehanna) as chairman. He holds a professorship at Bucknell University.

Elfrieda Kastner Wilson, B.A. '30, and her husband, John H., operate the Bonnie Highland Farm in the Mukwonago, Wis. area. Their letterhead reads, "Breeder of Purebred Livestock".

Fiscal year's end 1961 will always be a memorable one for **Duane F. Zinkel,** B.S. '56. Alma Mater conferred upon him the doctorate at the June Commencement —he had transferred to the Biochemistry Department upon graduation from the Chemistry Course —and on the following Saturday, 10 June, he exchanged nuptial vows with Miss Lorella S. Schweiger, Beaver Dam. She is a medical technologist in the laboratories of University hospitals and he has taken a position in the U. S. Forest Products Laboratory, Madison. Badger Chemist extends a congratulatory hand to the Zinkels and wishes them all possible happiness.

Eastman Kodak's senior research associate, Bonduel, Wis., native **Carl W. Zuehlke,** B.S. '38, was recently named assistant head of its chemistry division. He has been with the Company since 1948. The interlude between graduation from Wisconsin and affiliation with Eastman was made in part by a period of graduate study at Michigan, M.S. '40 and Ph.D. '42, and employment by Allied Chemical & Dye which he left while assistant manager of its control division at East St. Louis.

Quotable Comment

"Congratulations on the excellent copy of Badger Chemist which I have just finished reading with the greatest pleasure. I feel it is about the best 'house organ' of its kind I've ever seen and enclose a small check (understatement that, Ed.) to help with the expenses. . . . On this trip to Mexico I'm driving much less and working much harder on Spanish than on earlier trips and find my conversational efforts more rewarding than usual, but I always remember your quatrain

'No tengo tabaco,
No tengo papel.
No tengo dinero,
Dog gone it. The hell.'

as one of the finest examples of pure Castilian that I know."—**Norris F. Hall**