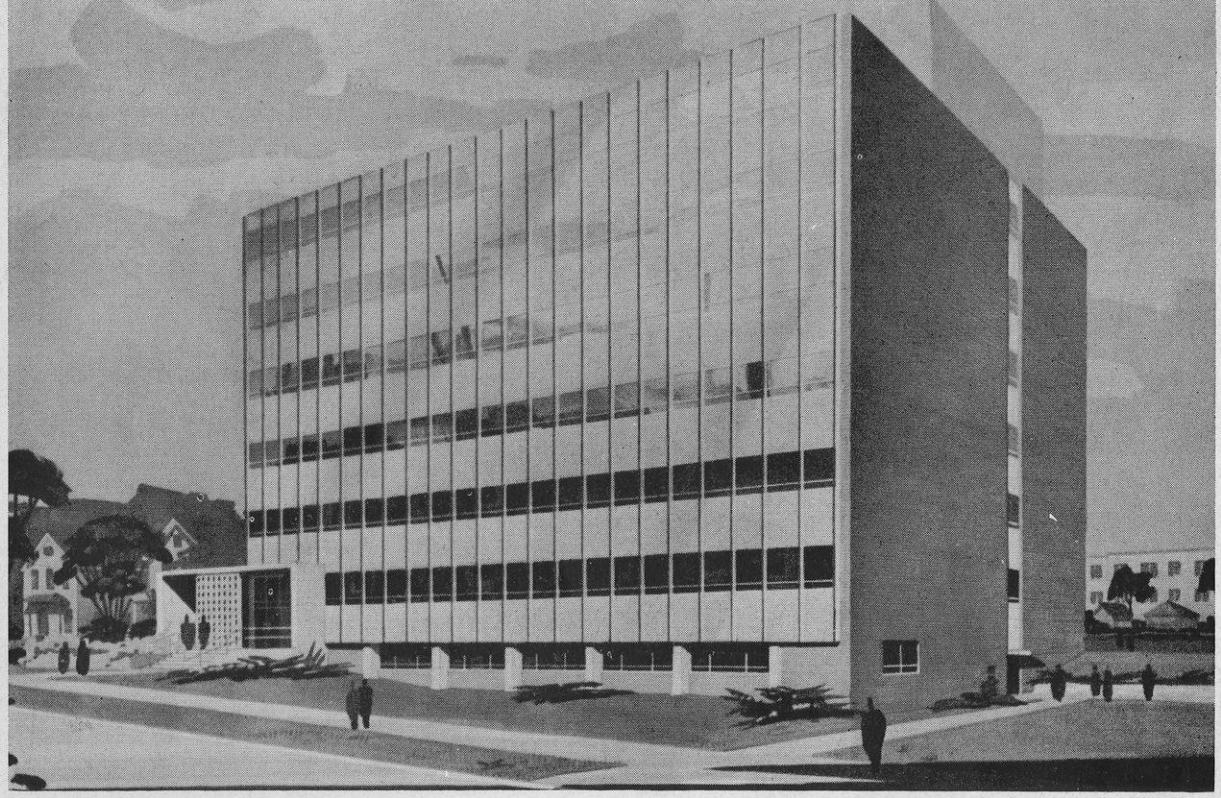
Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 8 Fall 1960



BADGER CHEMIST

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

Newsletter 8 **Fall 1960**

Our New Research Unit

The first steps for providing enlarged research—and some instructional facilities—for the Department and the School of Pharmacy were taken when contracts were signed at fiscal year's end, 1960, for the construction of the first unit on the north side of Johnson Street in the middle of the block bounded by Mills and Charter Streets. Eventually the whole building will occupy the entire area except for the Wesley Foundation church property on the corner of University Avenue and Charter Street. A grant from the Wisconsin Alumni Research Foundation of $1,445,000 and smaller ones from the National Institutes of Health, and the National Science Foundation, plus moneys made available by state funds will finance the budgeted cost of this building, or $2,826,742.

The building will have six stories, plus basement, sub-basement and penthouse. Its outside dimensions are 92 x 117 feet; it will provide a gross floor area of 86,500 sq. ft., of which about 56 per cent is classed as useable space. It is planned so that offices and laboratories are along the north and south walls, as well as in a central core which will be largely air-conditioned; the first three floors and part of the basement completely so. Provision has been made for a physical chemistry teaching laboratory in the basement, along with space for some of the studies being carried on in the Department on macromolecules (i.e. colloid chemistry). The first floor will be given over entirely to the latter, the second floor will be shared by the theoretical chemistry group and, in part, by the instrumental analysis division. The entire third floor has been assigned to the latter with space reserved for Professors Bender and Dahl. The organic chemistry division will be housed on the top three floors. The target date for occupancy of the building has been set as the first half of 1962.

The move to south of University Avenue was first envisioned by ex-chairman Mathews. It reached its second stage with the aid of the patience, the persistence, and the persuasiveness of his successor, Professor Daniels, who personally promoted the plan and brought the financial arrangements to a happy conclusion.

In a physical sense the facilities for teach-

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BADGER CHEMIST
Privately published by the Department of Chemistry of the University of Wisconsin, Madison, in the interest and with the assistance of its alumni.

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Ye Editor's Corner

To those of you who have contributed to the publication costs of this, the Department's eighth annual newsletter, our warmest thanks. We do so much appreciate the material help which you have contributed to Project Newsletter, and are, indeed, apologetic that we must resort to this informal way of saying so. Yes, we know that an Emily Post would not approve, but financial reasons drive us to this breach of etiquette. Every dollar that comes to us—and they are not tax dollars—must go for printing and postage. Your good will and friendship, as expressed in your contribution, give us the courage, and enthusiasm, to carry on, as "a labor of love", the purpose of our newsletter: to maintain contact with our alumni, to share with them what we learn about the activities of our graduates, and to let them know that they have not been forgotten.

This issue will deplete our publication fund. We have "gone for broke" in putting it into your hands. Won't you help to make it solvent?

A reminder is enclosed. Thank you.

H. A. S.

New Research Unit--

(continued from page 1)

ing chemistry—and carrying on research in this field—have come a long way, since the late Prof. W. W. Daniells taught this subject in the basement of what is now Bascom Hall; when it was assigned quarters in the University's first Science Hall which was completely destroyed by fire in the early 1880's; when, soon thereafter, it had its own building, now identified as 600 North Park Street; when, soon after the turn of the century, the central core of the present building provided the Department with "adequate quarters for the first time in a number of years." Subsequent additions to that unit have even now become hardly adequate to meet the needs of the University.

Our Newest Alumni

Exactly 82 names were added to the Department's roll of graduates during fiscal year 1959-1960, a period in which there are three degree-granting months: summer session's end in August, and semester's end in January and June. The number of degrees granted during this time was four more than a year ago. Making up the whole were the 24 conferred upon doctoral candidates — the number granted since 1899 is now some 930—the 20 that elevated the student with a bachelor's degree to the master's category, and the 38 bestowed upon the graduating senior class. Percentage-wise as to increase in number, the Chemistry Course showed the largest growth, or 60 per cent. The increase in the number of master's degrees conferred was insignificant; still, 20 is a goodly number.

Phi Beta Kappa honors went to two seniors, Sharon L. Gray and Daniel S. May. They and four others were privileged to wear the fourragers at Honors Convocation because they had achieved distinction in their academic work. Their names are starred in the lists which follow. Daniel Stephen May* won the American Institute of Chemists Award in recognition of leadership, excellence in scholarship and character. His grade-point average was a near-perfect 3.76.

DEGREES GRANTED AUGUST, 1959

To the list of '59 graduates published in the last newsletter should be added the names of those who completed their studies at Summer Session's end of that year.

Bachelor of Science

Wisconsin residents Dennis C. Gehri of Janesville; Wallace J. Hilliard, Mrs. Jane S. Wagner, and Jay T. Jesperson, of Madison; and Ruth H. Ullrich of Watertown.

Master of Science

Alumni of six different schools make up the class upon whom the master's degree was conferred at Summer Session's end in 1959. Recipients of this degree at that time and the sources of their first degree are George L. Davis (University of Massachusetts), James L. Diebold (Loyola University), David Freund (Drexel Institute), James M. Schooler, Jr. (Wittenberg College), Stephen W. Tobey (Illinois Tech.), and John R. Wilson (University of Florida).

Doctor of Philosophy

Four graduate students completed their formal education in August, 1959. All took positions offered by industry. Their names (with the name of the employer in parentheses) and their respective alma maters are:

Richard E. Dilgren, Wittenberg College, A.B.'55 (Shell Development); James J. Korst, University of Illinois, B.S. '53 (Pfizer & Co.); David J. Parker, North Dakota Agricultural College, B.S.'54 (Shell Oil); and Walter A. Vredenburgh, Washington University, B.S. '51 (Monsanto).

DEGREES GRANTED JANUARY, 1960

Bachelor of Arts

The 38-member group of seniors upon whom the bachelor's degree was conferred in the period covered by our report included in their number only two who had followed the B.A option; and one of them was the lone representative of the B.A. chemistry majors to have been elected to Phi Beta Kappa. The B.A. pair are Sharon L. Gray of Madison, and Richard J. Hart.

Master of Science

Mrs. Mary Benedict Sauer (Wellesley), Thomas S. Nichols (Miami University), Solomon Rosen (C.C.-N.Y.), and Curtis F. Sheley (Wisconsin).

Doctor of Philosophy

The names of ten young men representing eight different schools were added to the Department's Ph.D. alumni as of January, 1960. Six of them accepted offers of employment by industry and four chose to make careers in the academic field. Their names, their respective alma maters, and present employers are: Ronald H. Baney, Alma College, B.S'55 (Dow-Corning); Victor J. Bauer, Massachusetts Institute of Technology, B.S.'56 (Harvard University); Patrick K. Gallagher, Wisconsin, B.S.'53 (Bell

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Our Newest Alumni--

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Telephone); Thomas A. Gover, Kentucky, B.S.'55 (University of Sheffield); Jackson B. Hester, M.I.T., B.S.'55 (Upjohn); Henry B. Hollinger, Lebanon Valley College, B.S. '55 (Lebanon Valley College); Donald W. Larsen, Wyoming, B.S.'52 (Grace & Co.); Eugene D. Olsen, Wisconsin, B.S.'55 (Franklin and Marshall College); Richard L. Tallman, Kenyon College, A.B.'53 (Westinghouse); Donald K. Vissers, Stevens Point Teachers, B.S.'53 (Morton Chemicals).

DEGREES GRANTED JUNE, 1960

The B.S. degree was conferred at Commencement, June 6, upon three groups of seniors, six of them privileged to wear the badge of distinctive scholarship achievement; graduates of the Chemistry Course, those who had fulfilled the requirements for this degree in the general course, and three in education with chemistry as a major.

Bachelor of Science
Chemistry Course

Wisconsin residents Mrs. Joan D. Appleman*, Richard L. Wagner*, of Madison; John F. Baude and Eugene L. Slagowski, of Milwaukee;; Richard V. Jensen, Joseph V. Paukstelis and Richard H. Wendt, of Racine; Kenneth E. Bredendick, Neenah; Jerry E. Lundstrom, Waupun; Milan G. Maximovich, Cudahy; Thomas R. Staehle, Oshkosh; James T. Streator, Appleton; and Daniel J. Tutas, Niagara. Non-Wisconsin residents Noretia A. Wilcox, Crown Point, Ind., and Kyung S. Shim, Inchow, Korea, complete the list. Paukstelis earned thesis honors for having done an exceptionally fine piece of work, and Mrs. Appleman was one of the two students in the College of Leters and Sciences to receive high honors.

Bachelor of Science
General Course

Wisconsin residents James W. Dubrin, Andris A. Lazdins and Peter C. Raich* of Milwaukee; Raymoind F. Gesteland*, Mary A. Mennes and Terry B. Swanson, of Madison; Daniel S. May* and Nancy L. Russell, of Racine; Larry P. Kammholz, Fond du Lac; Marjorie E. Lutzke, Merrill; and Edward A. Tousignant, Niagara. Non-residents Dorothy E. Patton, Hollywood, Ill., and Katherine A. Price*, Eugene, Ore., complete the list.

Bachelor of Science
Education

Wisconsin residents Delores Oemig of Madison, and Len L. Van Ess* of Denmark; and Carol E. Stellwagon* of La Grange, Ill.

Master of Science

Alumni of nine American and one foreign school enrolled in our Graduate School as candidates for the M.S. degree. Those who achieved their objective at school year's end are Barbara Tischer Barr (Washington University), Yuen-Pai Chen (National Taiwan University), Carl R. Gerber (Oberlin College), Mary F. Lease (Michigan), Marvin L. Reinhart (College of Puget Sound), Rudolph M. Salinger (Cooper Union), Michael L. O'Connor (Rockhurst College), Richard R. Shaffer (M.I.T.), Duane A. Tewksbury (St. Olaf College), and Fred M. Menger (John Hopkins).

Doctor of Philosophy

Ten colleges and universities are represented in the group upon whose members the Ph.D. degree was officially conferred as of June, 1960. Again sixty per cent of the class accepted offers of employment by industry, the field of education attracted three young men, and one entered the public service.

Their names, their respective alma maters, and present employers are: William L. Albrecht, Oberlin, B.A.'55 (Nalco); John E. Cole, Jr., Dartmouth, B.A.'56 (Du Pont); Dervin L. Flowers, University of Detroit, B.S.'57 (Shell); Kenneth J. Martin, St. Louis University, B.S.'53 (Rohm & Haas); Robert S. Powers, Jr., Southern Methodist University, B.S.'55 (National Bureau of Standards); Lee T. Rozelle, Wisconsin, B.S.'55 (Du Pont); Martin F. Sloan, Washington University, B.A.-'56 (Hercules Powder);; Thomas A. Spencer, Amherst College, B.A.'56 (Dartmouth); Kenneth L. Williamson, Harvard, B.A.'56 (Stanford University); Kenneth V. Yorka, De Paul University, B.S.'56 (Purdue University).

Faculty Activities

On the current advisory board of the Journal of the American Chemical Society are two Badger chemists: Robert A. Alberty, Ph.D. '47 and Arthur C. Cope, Ph.D. '32. Professor Alberty is doing also a job on the home scene: as a member of a committee for an expanded program of graduate study in the field of forest products.

Prof. C. D. Cornwell of the physical chemistry staff took a leave of absence for the second semester of the past school year in order to join the faculty of the University of California in Berkeley.

Among the staff members who received a one-step promotion at school year's end were Chas. F. Curtiss, John L. Margrave, Monroe V. Evans, David M. Lemal, and Edward O. Stejskal. Messrs. Curtiss and Evans are B.S. alumni of the Department, '42 and '53, respectively. The former became a Ph.D. alumnus in '48, the latter after a tour of duty with the Armed Forces won his degree at MIT.

Prof. Daniels has been travelling again; and at this writing he is in Chile on a business mission. Early in February of this year he began a four-month tour of eleven Asian countries with another member of the National Academy of Sciences in order to discuss with scientific leaders there the best ways to develop these nations through science and technology. He visited Pakistan, India, Burma, Thailand, Malaya, Indonesia, The Philippines, Viet Nam, Taiwan, the Republic of Korea, and Japan, besides Hong Kong and Singapore.

We understand that he suggested to them that concentrated research in solar energy would be of far more immediate benefit to most nations than atomic energy, and that its development should be brought to that point where it could be used for producing and storing heat, generating electricity, distilling saltwater, and other purposes.

Prof. Daniels' string of honorary degrees was increased to three last December by the University of Dakar in French West Africa. It was accepted in his behalf by the American consul there, and if our memory serves, he was the first American to receive this recognition.

Chairman John D. Ferry, elected last year to membership in the National Academy of Science, received two recognitions within the past calendar year for his researches in the field of physical chemistry. An ACS award, a $1000 prize sponsored by the Kendall Company of Walpole, Mass., for fundamental researches in colloid chemistry, was given him last April at the Cleveland meeting. A symposium on the rheology of colloidal and polymeric systems honoring Prof. Ferry was held at that time by the Division of Colloid Chemistry . The title of his address: Rheology in the World of Neglected Dimension. A $72,000, three-year grant to the University from the National Science

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Re: The Faculty--

(continued from page 3)

Foundation has been earmarked for support of his researches in the molecular motions of polymers.

Eight members of the University's faculty have been elected this year to membership in the American Academy of Arts and Sciences. Among them is our Joe" Hirschfelder who now has a new title: professor of theoretical chemistry and director of the Theoretical Chemistry Laboratory. The former name, Naval Research, is no longer used.

There's a title on the door of room 111—but no name" carpet on the floor for our chemists must be content with plastic title — which reads M. L. Holt, associate chairman. Another, but different title, was given him by the electors of his community, Shorewood Hills village, last April: trustee.

The publisher of a Madison newspaper has been following a practice, begun some months ago, of once a week extending a congratulatory big hand" to a local resident for conspicuous civil service either on the local scene or on the state level, or both. Prof. Aaron Ihde was so honored late in January of this year. He attributes whatever success he may have achieved in his chosen vocation to the childhood guidance of his Winnebago (Wis.) county farmer father, described by him as a dissenter," and the inspiration of his major professor at our University who taught his courses in food chemistry from the standpoint of the public interest. He was appointed to the Wisconsin Food Standards Advisory Committee in 1956 by Gov. Walter Kohler, and in January, 1960, by Gov. Gaylord Nelson was made a member of a special committee of scientists, doctors, and agricultural experts charged with the development of a decisive and consistent policy on the use of chemicals as feed supplements, food additives, pesticides, weed killers and growth regulators. His activities in the above field have brought him numerous invitations to discuss this subject before interested groups, such as the local section of the American Dietetics Association, the Milwaukee Section of ACS, and the Quiz the Professor program telecast by WHA-TV. For the fourth consecutive year he was a guest lecturer at South Dakota State College for the opening week of the school's NSF teacher program. He gave a series of lectures, entitled Milestones in the History of Science."

Prof. Edward L. King made a quick AEC-sponsored trip to England last April in order to read a paper at a Faraday Society meeting in Newcastle.

For the third time Prof. E. M. Larsen took part in the Visiting Scientist Program of the ACS Division of Chemical Education. He gave lectures before audiences at Fort Hays Kansas State College on February 1-3; Evansville (Ind.) College on February 15-17; and Mankato (Minn.) State College April 4-6. And for the fourth consecutive year he gave a series of lectures at the University of New Hampshire Summer Institute for High School Teachers, June 20 through July 9, 1960. He was a guest of Texas Tech at Lubbock, April 22 and 23, at which time he conducted a research seminar and spoke at Lubbock's recognition day dinner. His subject: Scientists and Humility.

To Prof. and Mrs. Daniel L. Leussing was born their first son, Daniel John, on 17 May, 1960. Little John's sister, Mary Joan, preceeded him about twenty months ago.

The John L. Margraves made news on several occasions this year. Their first contribution to the Department's crib-and-cradle set arrived on 20 March, a boy who has been named Daniel Russell; then in April we learned that Daniel's father was one of four Wisconsin professors to have been awarded a Guggenheim fellowship; and in June came announcement that the head of the house had been promoted to full professor. He will take his wife and son out west on 1 February, 1961, for an eight month's stay. We understand that he will study chemical reactions at high temperatures and pressures at several western universities: Lawrence Radiation Laboratory of the University of California, Brigham Young University, Provo, Utah, and other centers.

Prof. S M. McElvain took a leave of absence for the second semester which he spent with his wife in Hawaii. At this writing the McElvains are touring Europe.

Prof. Villiers Meloche is serving as chairman of the (Frank) Holt Memorial Scholarship Committee whose activities stem from an initial gift of $1000 from the Holt family in 1949 to a fund intended for outstanding students who plan to enter the teaching profession as a career. Since then, hundreds of friends and Wisconsin alumni have contributed to it. Mr. Holt served our University from 1927 to his death in 1948. He had served Wisconsin as registrar, dean of the Extension division, and director of public service. He became widely known during his career as a living symbol of the "Wisconsin Idea" of university service to the citizens of the state.

The year 1960 was, in a sense, anniversary - filled for Professor Schuette. Recorded elsewhere in this newsletter is a note on his half-century affiliation with the American Chemical Society, one that began when he was a senior in college. Last June he was one of about one hundred of his classmates who, having successfully ended a fifty-year probationary period, were made members of the University's exclusive Half Century Club. Membership in two societies stemming also from his undergraduate days are the honorary chemistry fraternity, Phi Lambda Upsilon, and Alpha Chi Sigma.

Prof. Irving Shain participated in the 13th annual summer symposium of the ACS Division of Analytical Chemistry at Houston, Texas, June 15-17, with a paper on the subject of stripping analysis. It was that part of the program which was devoted to trace analysis by electrochemical methods.

It's a boy at the home of the Irving Shains! He was born 2 July.

Prof. E. E. van Tamelen has been given a six-year, unsolicited, unrestricted $50,000 research grant from the Petroleum Research Fund. We understand that he may use the money for basic research along any line which may afford a basis for subsequent research directly connected with the petroleum field.

Prof. Robert West follows his hobby of mountain-climbing in the summer when time permits. On describing to an interested audience at the 90th annual meeting of the Wisconsin Academy of Sciences, Arts and Letters his 1959 climb when, accompanied by his wife and a member of the Stanford University faculty, he made a first-ever ascent of 9,350-foot Mt. Shaughnessy, he stated that some of America's glaciers are advancing and could grow to their former magnificent size, if the trend continues.

Faculty salary policies are in for some major changes as a result of a detailed study and recommenda-

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Re: The Faculty--

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tions made by a special committee headed by Dean J. E. Willard and approved by the Administrative committee. Other newsworthy items about popular Professor Willard are his election by the University of Wisconsin chapter of Phi Beta Kappa to honorary membership and his acceptance of an invitation to give the Commencement address on June 11 to the Stevens Point High School graduating class.

The vacancy caused by the resignation of Prof. W. S. Johnson has been filled by the appointment of Dr. Howard E. Zimmerman, Ph.D. (Yale) '53, of Northwestern to the post with associate professor rank.

This 'n' That About Our Alumni

The **Karl Anthony's,** Ph.B. '37, were campus visitors late in June taking steps to enroll their daughter, Karen, as a future Wisconsin alumna. We learned at that time that wedding bells would ring for their other daughter, Arlyle, on 30 July.

We have learned that **Paul R. Austin,** B.S. '27, has been made manager of the patent and licensing section of the development division of Du Pont's international department. Paul holds higher degrees from two different universities: Northwestern, M.S '29, and Cornell, Ph.D. '30. He spent two years as a National Research Council fellow on the Cornell campus upon completion of his graduate studies there and a third as a research chemist at Rockefeller Institute. He joined Du Pont in 1933 and reached his present position after a series of promotions, each one of which bringing with it new and larger responsibilities.

Robert L. Baldwin, B.A. '50, has been on leave this year from his position as associate professor of biochemistry and dairy and food technology. He is now associated with the Department of Biochemistry of Stanford University's Medical School, Palo Alto, Calif.

Word has come to us indirectly, but from sources which we deem reliable, that Ripon College retiree (1955) **Augustus L. Barker,** Ph.D. '22, now has a new address: Shorter College, Rome, Ga. He has spent the past five years as a member of the chemistry faculty of Alabama Polytechnic Institute, Auburn.

A "laboratory romance" that led to marriage on January 23 of this year was that of graduate students **Barbara Tischer,** a Washington University alumna, and teaching assistant **James K. Barr,** an alumnus of U.C.L.A.

Carl A. Bauman, B.S. '29, Ph.D. (biochemistry) '33, was granted a leave of absence from March 20 to May 31 in order to do a nutritional survey in Chile under the auspices of the interdepartmental Committee on Nutrition for National Defense.

Michael Wm. Klein

Retiree

The Department's list of emeritus professors reached an all-time high of five at 1960 fiscal year's beginning when Doctor Klein, with five more years to serve his adopted Alma Mater (Ph.D. '24) before he would have reached mandatory retirement age, relunctantly, for reasons of poor health, brought to a close a forty-year career as an educator.

He had conscientiously carried his share of the teaching burden since he came to the Department in 1920 with a B.S. degree from Lawrence College. He is the last member of the Department's "old guard" to have served a stint in World War I. After six months in the artillery came his transfer to the C.W.S.

With others, he collaborated in the publication of two books, "Practice of Organic Chemistry" and "Experiments in Organic Chemistry." His work as an industrial consultant on dyes and his basic liking for teaching cut down on the opportunity to do the kind of research that leads to a famous name in chemistry. Put to his everlasting credit lies the fact that he has inspired students of organic chemistry for four decades with his warm personal interest in their welfare and his ability to impart the skills and art of laboratory technique along with the science of chemistry. Over the years his pupils have been grateful for his friendship and have praised his generosity and unselfishness in helping them develop their knowledge and solve their problems.

Summer school '60's end will find **Ann R. Bergen,** B.S. '57, leaving her position in the Department's library to move to Pocatello, Idaho, where her husband, John, will be a faculty member of the College of Pharmacy, Idaho State College.

Edward M. Bellacque, Ph.D. '44, has been promoted to senior research scientist at U.S. Rubber's research center, Wayne, N. J.

Hans J. Borchardt, Ph.D. '56, has severed his connections with General Electric and is now a Du Ponter, explosives department. We understand that he is continuing his research program in solid state chemistry.

J. W. Butts, M.S. '40, is chairman of the science department of Boys' Technical High School, Milwaukee. Associated with him is Badger chemist **Thomas Jackland,** B.S. '39.

Congratulations are in order to Wisconsin State Teachers College alumnus (B.Ed. '33) **Wilbur B. Bridgman,** Ph.D. '37, on his promotion to full professor at Worcester Polytechnic Institute.

Ray U. Brumblay, Ph.D. '38, chairman of UW-M's Chemistry Department, has been promoted to full professor's rank. Badger Chemist extends its congratulations to Ray on his advancement.

Word has come to us from **Clifford J. Burg,** B.S. '37, that his daughter Jean, has been awarded a $1350 Radcliffe College scholarship for the 1960 school year. Jean, during her freshman and sophomore years at Riverside High School, Painesville, O., was class secretary; during her senior year, president of "The Golden R", a girls' service club, a National Merit Scholarship finalist, and winner of third place—her score was 253 out of a possible 300—in the state of Ohio, girls' division, in the General Scholarship test. Her mother is the former Laura Drescher who before her marriage, had served the Department with distinction. Badger Chemist extends a congratulatory hand to the Burg family.

Milton (Wis.) College professor, **William D. Burdick,** M.S. '26, remembered, with others, to share in the publication costs of project Badger Chemist with a check which was accompanied by the comment that he had particularly enjoyed the articles in the last newsletter about Doctors Daniels, Kahlenberg, and Lenher. Of the first two he said that he had been privileged to be a student in classes conducted by them, and that the father of the

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This 'n' That--

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latter had been his major professor, one to whom he owed a great deal.

Is **Harriet H. Burkhalter (Mrs. J. P.)**, B.S. '57, in the employ of Minnesota Mining and Manufacturing Co., St. Paul, Minn.?

James E. Carnahan, Ph.D. '46 and **John E. Castle,** Ph.D. '44, made the headlines of The Wall Street Journal of Commerce of March 4 as members of a Du Pont team that found a way to fix nitrogen by using enzymes extracted from bacteria. Three days later C and EN devoted a full page to a description of the discovery.

Pictured in color in a recently released brochure by Pittsburgh Plate Glass are nine research principals discussing a unique new type of building construction which, it is stated, could further broaden PPG's expanding markets for glass, paints, fiber glass, and other products. **Roger M. Christensen,** Ph.D. '44, who is manager of new products research, is shown describing to his colleagues the new item in question. Beside him is seated **Stewart W. Gloyer,** Ph.D. '39, who is associate director of research and development, paint and brush division.

We have recently learned that the Salt Lake Section of ACS for the third year has been sponsoring a free popular lecture on science. Its objective: to stimulate interest in science among laymen, science teachers, and high school students. Quite appropriately the coordinator of cooperative research at the University of Utah, Badger chemist **Carl J. Christenson,** M.S. '25, Ph.D. (California) '29, gave this year's lecture in which he discussed the physical chemistry of photography. He addressed audience in Logan, Salt Lake City, Ogden and Provo during the period April 27 to May 6.

Rodney B. Clampitt, Ph.D. '58, reported that he had made a change of employer; from Du Pont's Kinston, N.C., plant to Monsanto at Dayton, O.

Willis H. Clark, Ph.D. '22, has retired from Texas State College for Women. A Michigan alumna, A.B. '10, he holds also a Wisconsin master's degree and during his graduate student days on the campus, he was first a teaching assistant and then an instructor. At Texas State College he held a professorship and served as director of the department from 1922 to 1950. He was the director of the Graduate Division from 1930 to 1950.

North Dakota alumnus, B.S. '20, **Ernest D. Coon,** Ph.D. '32, joined the ranks of the emeriti last June, after having served his alma mater since graduation, in his rise from instructor to professor, and the chairmanship of his department. We understand that a new chemistry building is in the making at North Dakota and that Badger chemist Coon will continue to serve in his capacity as chairman of the building committee until September 1961, the target date for the structure's completion. Then space will be waiting for him in that building in which he will continue his research interests.

Forty years of devoted service to Geneva College, where he had been chairman of its chemistry department until 1957, ended for Milton College alumnus (A.B. '10) **Philip C. Coon,** Ph.D. '32, in January of this year, when at the age of 73 he was given emeritus status. By stimulating his good students to continue their education after graduation Doctor Coon was largely responsible for the fact that more than 50 percent of Geneva's chemistry majors during his long affiliation with this college had gone on to graduate or medical schools. Most of the others had gone into chemical industry. Recognized as an outstanding and inspiring teacher of chemistry he became the recipient of the Geneva College Alumni Association's Distinguished Service Award.

Paul C. Cross, Ph.D. '32, was a campus visitor, October 19, 1959. At that time he was a guest of the Wisconsin Section, ACS. The subject of his lecture: The Molecular Structure of Hydrogen Peroxide.

Some three years ago we reported that **James F. Cummins,** M.S. '28, had a Washington, D.C., address as a scientific attache at the Australian Embassy. We now know that he is in Vienna. What is he doing there?

Norbert Cywinski, B.S. (Ch.C.) '54, went on to Northwestern University for graduate work on a fellowship for the doctorate. His goal achieved, he is a research chemist at Phillips Petroleum, Bartlesville, Okla.

We were pleased to learn that Beloit alumnus, **Stephen Dal Nogare,** Ph.D. '47, was the lead-off speaker at the 13th annual summer symposium of the ACS Division of Analytical Chemistry which was held at Houston, Texas, on the campus of the University there during mid-June. His paper, Introduction to Trace Analysis by Gas Chromatography, was followed by four others pertinent to the subject in question. He also served in the capacity of guest lecturer, on consecutive days, of five southern local sections of the Society. He carried his message, which centered on gas chromatography, to audiences at Georgia Tech., Atlanta; Auburn University, Auburn, and Birmington - Southern College, Birmington, both in Alabama; Wilson Dam, Sheffield, Tenn., and Nashville.

Guido Daub, Ph.D. '49, is devoting one-half of his time to his professorship at the University of New Mexico and the rest of it to the directorship of the Los Alamos Graduate Center. Our staff list contains the name of a New Mexico alumnus, **James W. Patton,** one of his former students. Patton is a

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In Memoriam

G. Manley Cole, B.S. (Ch.C.) '18, for the past twenty odd years—and before that chief chemist—retired technical director, Lemon Products Division of Sunkist Growers, Inc.—in Corona, California, January 25, 1960. Survivors are his wife, the former Sadye Dumke of Tilleda, Wis., three sons and nine grandsons.

J. Gerhardt Dietrichsen, Ph.D.'14, some-time instructor in the Department, retired MIT professor—November 30, 1959.

Donald G. Kundiger, B.S. '38, Ph.D. '42, associate professor of chemistry, Kansas State University, and before that employed, successively, by Rohm and Haas and Shell Development—in Manhattan, February 10, 1960.

Clarence C. Lefebvre, B.A. '07, Kimberly-Clark Corporation retiree—in Van Nuys, California, January 14, 1960,

Samuel Weiner, Ph.D. '36, associate professor at the University's Wausau Extension Center—June 14, 1960, in Atlanta, Ga., where he was a member of Emory University's summer session faculty.

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, the former Mrs. R. J. Eddy, two sons and five grandchildren.

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research assistant for Professor Kosower.

We understand that **Chester Davis,** M.S. '45, who on another occasion had been described in these columns (newsletter 4) as a Kettering Foundation retiree, is now a self-employed research chemist and consultant in Newport, Ky. His address: 415 E. 5th St.

Our note book contains the following entry made on 15 March of this year re **E. R. Degginger,** Ph.D. '53, who paid us a visit at that time: promotion to research supervisor at Solvay Process Division of Allied Chemical Corporation; children, one boy and one girl.

Three-degree alumnus **Sheldon J. Dickinson,** Ph.D. '26, is research engineer and adviser with American Smelting and Refining Co., East Brunswick, N.J.

Carl J. Djerassi, Ph.D. '46, has added another ACS-administered award to his string of recognitions: the Fritzsche Award for his investigations in the sesquiterpene field. It was given to him at the Cleveland meeting.

We were pleased to learn that **Paul L. Du Brow,** M.S. '40, has been named assistant research director at Armour Industrial Chemical, Chicago, with responsibility for applied research and technical service.

Peter J. Dunlop, Ph.D. '55, has returned to our "down under" continent. He is now associated with the University of Adelaide, South Australia, a member of its Department of Physical and Inorganic Chemistry.

Elinor Pennington Dunn (Mrs. Peter J.), B.A. '28, now has three granddaughters via her son Peter.

Robert P. Eischens, B.S. '42, Ph.D. (Northwestern) '49, served as chairman of that part of the program which was centered on the topic "Adsorption on Semiconductors and Bare Metals" presented before the 34th National Colloid Symposium on June 16 and 18 at Lehigh University, Bethlehem, Pa. Participating also in the Symposium was Du Pont's research chemist **Donald P. Graham,** Ph.D. '29.

Correction: **Luther E. Erickson,** Ph.D. '59, is not a staff member of St. Olaf College, as reported in the last news letter. When a revision is made in order to bring up to date our story about the "Oles" among our Ph.D. alumni (Badger Chemist 2) we will add his name to that list. Luther is currently a

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Ralph Connor

Board Chairman

With an excellent scholastic record which he had made at the University of Illinois, B.S. '29,— he was elected to Phi Eta Sigma honorary society in his freshman year and Phi Lambda Upsilon as an upper classman—and the recommendation of his teachers as a young man richly endowed with brains and a promise of a brilliant career in organic chemistry, Ralph Connor enrolled in Wisconsin's Graduate School for work under the guidance of the late Prof. Homer Adkins; and, as a graduate student, he did what many a potential candidate for the doctorate has done: he did service as a teaching assistant. Out of this, after two years, came appointment to a fellowship (Du Pont) during the last period of his graduate student days. His objective reached in 1932, Doctor Connor left the Wisconsin campus for that of Cornell where, for three years, he held an instructorship. His next move (1935) was to the University of Pennsylvania with the rank of assistant professor. He left there in 1945 with the rank of professor; and with that he removed himself from the academic field and entered the administrative.

Rohm & Haas Company, already aware of his talents as a research chemist, invited him to join the company as associate director of research; three years later made him vice-president of research, a director, and a member of its executive committee. Last January, on the death of the company's founder and honorary chairman of the board, Otto Haas, Ralph was elected chairman. He continues as a member of the executive committee and as vice-president of research.

Honors recognitions and opportunities for public service have come his way. He held an appointment with the National Defense Research Committee during the war years; has served the Bureau of Ordnance, U.S. Navy as a consultant; and the International Union of Pure and Applied Chemistry as chairman of the United States national committee; and was made a member of the division of chemistry and chemical technology of the National Research Council in 1953. He is the recipient of the King's Medal for Service in the Cause of Freedom (Britain), and Award from the Naval Ordnance Development, and a Medal for Merit. He served a two-year term as chairman of the American Chemical Society's board of directors. Philadelphia College of Pharmacy and Science conferred upon his the honorary D.Sc. degree several years ago.

Badger Chemists In ACS Recognition

Eight Badger chemists were among the 72 members of the American Chemical Society to whom their associates paid tribute at the General Meeting in Cleveland on April 9 of this year for having maintained an unbroken relationship with it since 1910. Three of them did their undergraduate work at the University. All of them as graduate students had been associated with the teaching profession while pursuing studies for an advanced degree. Four had made teaching their life work; two reached retirement age in industry; and two ended their respective careers in Federal or State service. Five of the group carried their formal education to the doctorate at Wisconsin; three ended theirs upon acquiring the master's degree, although one of them in later life eventually earned his Ph.D. degree elsewhere.

Wisconsin-degree holders honored last April as 50-year members of the Society are Kansas Alumnus (B.S. '14) Howard N. Calderwood, Ph.D. '23; Colorado alumnus (B.S. '08) Harry A. Curtis, Ph.D. '14; Wisconsin alumni Chas. P. Gates, Ph.M. '06, George W. Heise, M.S. '12, and Henry A. Schuette, Ph.D. '16; Alfred University alumnus (B.S. '07) Leon I. Shaw, Ph.D. '11; Missouri alumni (B.A. '02 and B.S. '09, respectively) A. D. Whealdon, M.A. '07, and J. E. Wildish, M.A. '15.

Messers. Gates, Schuette, Whealdon and Wildish followed the academic trail as a life work. It ended for them on retirement, in the order named, at Milwaukee Teachers College, the University of Wisconsin, Superior (Wis.) Teachers College and Kansas City Junior College. Industry in time attracted George W. Heise (Newsletter 7) and Leon I.

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ACS Recognition--

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Shaw. The latter interrupted his assistant professionship at Northwestern in 1918 for a two-year stint in the Chemical Warfare Service and at its end left the academic fold for Federal service in peacetime activities with the Bureau of Mines, until 1925. From that time until retirement he served first Western Electric and then Solar Aircraft. At last report he was active, on his own, as consultant on high temperature ceramic bodies and enamels for aircraft parts. Some-time Forest Products Laboratory chemist Calderwood assisted the late Prof. Louis Kahlenberg in the instruction of freshman engineers until 1937, whereupon he took a research position with the U. S. Bureau of Fisheries. He retired some 12 years ago as a research engineer at Florida's Engineering and Experimental Station. Colorado-born Curtis devoted some 20 years of his life to education, five to industry, and 24 to the Federal service. The latter consisted of a two-year stint in the Ordnance Department, U.S.A., and Tennessee Valley Authority. He retired as director at age 73.

The Society as our Badger group knew it in 1910 had a membership of not quite 5100, and a Division list of six. Annual dues were ten dollars and tangible fringe benefits" without further cost were three publications: the Journal, Chemical Abstracts and Industrial and Engineering Chemistry. The fledging Wisconsin Section had about 50 members at that time; now it has ten times as many. Local talent from the University was largely drawn upon for speakers; now the contrary is practically the case.

Timely are the comments of Secretary Alden H. Emery (C and EN, 1960: March 28): All of us owe much to these pioneers. The Society we know is built on the foundations they provided." Yes, several of those in the foregoing list have been active in the Society's affairs, some as past members of the Council, others as Division chairmen, or, on the local level, as Section chairmen; and to one of them (Schuette) goes a large measure of credit, in that, finding himself elected some thirty years ago to the secretaryship of a tottering Division—it was one of the original big five—put it on its feet with the result that it again began to have that prominence which it once enjoyed; now it has the unique distinction of having within its organization a sub-division!

Henry B. Merrill

Retired Research Director

A 37-year association with the tanning industry ended for Henry Baldwin ("Baldy") Merrill, when he reached retirement age last year (1959). It was an association during the course of which he achieved prominence as a leather chemist, found time to publish some forty papers on various phases of leather chemistry, to co-author, with the late John Arthur Wilson, a book "Analyses of Leather and Materials Used in Producing It", and to contribute a chapter on "The Mechanism of Unhairing" to the first volume of a series of books on "The Chemistry and Technology of Leather." Recognitions of his services to industry and the esteem in which he is held by his associates in his field of concentration have taken various forms: among which are the presidency of the American Leather Chemists' Association from 1938-1940 and the editorship of its Journal from 1956-1959. He as the recipient in 1953 of the Aslop Award on the occasion of the Association's golden anniversary, for outstanding scientific contributions to the leather industry and was given the 1959 Award of the Milwaukee Section, ACS, for "outstanding contribution or service to the industry, the profession or the section" in the Milwaukee area.

Upon completing the Chemistry Course in 1916 he enrolled in the Graduate School as a candidate for the master's degree. His objective attained, he took a job as chemist at the U.S. Naval Proving Grounds, Md., and next year (1919) entered the Chemical Warfare Service. At war's end he resumed his graduate studies at Wisconsin, and, upon their successful conclusion (Ph.D. '21), took a brief excursion into the field of education as a professor of chemistry at Carroll College. An offer of a job as research chemist by Milwaukee tanners A. F. Gallun and Sons Corp., in 1922 ended, however, whatever aspirations he once may have had to become and educator. This affiliation came to an end in 1941 when he was called to active duty as a captain in the Chemical Warfare Reserve, here he served until 1946, rising to the rank of colonel. He then became again a practicing chemist in the leather industry: as director of research and development at the B. D. Eisendrath Memorial Laboratory, Racine, Wisconsin.

Badger chemist Merrill served not only the Milwaukee Section as chairman in 1925 and as general chairman of the 1938 national ACS meeting there, but also the Society itself as editor of the leather and gelatin section of Chemical Abstracts for more than 20 years.

The Merrills have taken up residence in Lakewood, California.

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member of the chemistry faculty of Dickinson College, Carlisle, Pa.

Indiana alumnus (A.B. '24) **H. E. Fenimore,** M.A. '26, sometime assistant in chemistry, joined the teaching staff, as instructor, of Towne Scientific School upon graduation with a master's degree. Pennsylvania conferred the doctorate upon him in 1928. From that time to the present he has been head of the mathematics department of Muncie, Ind., Central High School. Research and consulting work for Dow and Mallinckrodt provided him with an extracurricular activity until 1935. The intervening summer vacations were spent teaching at Ball State Teachers College. The year 1940 found him again following an outside activity—and at last report he was still at it—that of a research-development engineer for Indiana Steel and Wire Co.

Karl A. Folkers, Ph.D.'31, awards-wise has done it again. This time it is the Perkin Medal, and Karl on 5 February became the 54th recipient of this honor. The jury of award which elected him to receive this recognition was made up of representatives of the Society of Chemical Industry's American Section, the American Institute of Chemical Engineers, the American Section of the Societe de Chimie Industrielle and the American Chemical Society.

David F. Fordyce, Ph.D. '50, has moved up from a research chemist's rating with Robin and Haas in 1955 to that of laboratory head.

Jeremy R. Fox, B.S. '54, is pursuing graduate work at Illinois.

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Wasn't he a member of the University's ROTC during his undergraduate days, and didn't he do a two-year stint with the Army at Ft. Detrick, Md., after graduation?

Our thanks to **Robert W. Rosenthal,** Ph.D. '49, for bringing to our attention the whereabouts of **Gerald Gilbert** ,Ph.D. '51; he's with U.S. Steel at the Monroeville Applied Research Center, Pa. Robert himself is employed by the Koppers Company. He is associated with the acetylene derivatives group of the Exploratory Section. His boss is a former Homer Adkins man, **Walter M. Kutz,** Ph.D. '30. We understand that the Rosenthals helped organize a successful swim club of some 200 families and Bob served as its president for two years.

Has **Robt. H. Gillespie,** Ph.D. '44, left Kendall Co., Walpole, Mass., and has he taken a position at The Paper Institute, Lawrence College, Appleton?

At this writing next year's Freshmen, accompanied by their parents, are making a voluntary one-day visit to the campus in order to get their counseling, testing and program-planning started. An orientation session for Freshmen and parents is held at 8:30 each morning; at 9:30 the parents and students separate—the students to spend a rather tightly scheduled day, the parents to meet with faculty and student hosts and hostesses at the Union for coffee and conversation. Now armed with information, the Freshmen can complete most of the rest of registration and fee-paying by mail. Taking advantage of this opportunity for helping their daughter Georgine orient herself in preparation for the years ahead of her, the **Frederick M. Granberg's,** B.S. '39, were Madison visitors early in July. Georgine's mother, the former Arlene Johnson, is a two-degree Wisconsin alumna with a major in botany. Her father has been an employee of Kimberly-Clarke Corporation since 1939. His first job was as superintendent of service operations of the company's Niagara Falls, N.Y., mills; his present title is assistant to the vice-president, marketing and sales at the Neenah office. His affiliation with the Corporation has been unbroken since graduation, although it was interrupted for about four years while serving a stint in the U.S. Navy during the last war.

Allen G. Gray, Ph.D. '40, was a campus visitor on 28 April of this year as a guest of the Department of Mining and Metallurgical Engineering. He, now editor of Metal Progress, addressed the graduate seminar there on the subject of recent developments in metallurgy. Our memorandum on the pleasant visit which he made us says: son-in-law of Badger chemist **James M. Breckenridge,** Ph.D. '10, Vanderbilt University retiree.

Emil W. Grieshaber, B.S. '47, went on to Illinois for graduate work towards the doctorate. His goal achieved he entered the employ of "3M" in 1951. He is now a project supervisor there. The Grieshabers have five children.

Has **Robt. T. Grimley,** Ph.D. '58, left Corning Glass and is he now with the Physics Department of the University of Chicago?

Robert M. Aude

Divisional President

Exactly 20 years after he had left the campus as a graduate of the Chemistry Course, Green Bay-born Robert M. Aude, B.S. '39, was appointed president of Heyden Chemical Division, the oldest of the four main divisions of Heyden Newport Chemical Corporation. The corporation has a heritage of nineteenth century European chemical technology stemming from the German Chemische Fabrik von Heyden, A.G., which was established in 1874. Among early Heyden developments was the first commercial production of saccharin and formaldehyde in the United States; now it is producing more than 200 intermediate chemicals and other products for the paint and varnish, pharmaceutical and chemical-processing industries.

If our memory serves, Robert is the youngest Badger chemist filling a stellar position of so many responsibilities as this. He spent his entire professional career, since graduation, in the chemicals industry. His rise to top management has been through a series of successive steps to build seasoned experience in industrial chemistry. Beginning as a laboratory chemist, he specialized in analytical work and color chemistry for the first two years after graduation at Monsanto Chemical Company's Plastics Division in Springfield, Mass. He then progressed to plant technical work, production supervisor, operating superintendent, and finally, superintendent, transportation and materials. He climaxed his career at Monsanto as production superintendent of the Plastics Division of the Addyston, Ohio, plant.

He joined Heyden in 1953 as manager, successively, of the Fords and Garfield, N. J., plants; in 1956 was named director of sales planning and co-ordination for the entire Heyden Chemical Corporation, a $60-million a year firm; and in 1958, when the Chemical Division was formalized, was appointed divisional manager, and a vice-president. Today, in addition to corporate duties, his other interests are diverse. He is on the board of governors of the Synthetic Organic Chemical Manufacturers Association, and is a member of the American Chemical Society, the American Institute of Chemical Engineers, the Armed Forces Chemical Association, and Alpha Chi Sigma professional chemical fraternity.

The Audes have four children, Robert, Jr., 14; Richard, 12; Karen, 11; and Mary Ann, 5.

Ada Richmond Griswold (Mrs. C. H.), B.A. '12, and her husband were among the five Wisconsin rural leaders receiving honorary recognition during the University's Farm and Home Week last January. The Griswolds have been community leaders in La Crosse county for 46 years. He has developed one of the top Wisconsin Guernsey herds, was one of the first hybrid corn producers in his home county, and has served numerous community posts. Badger aluma Griswold also has been active in county, church, and community activities including the Red Cross, Sunday school superintendent, and homemakers club. Together they have worked in supporting 4-H club and Guernsey breed activities. A daughter is chief technologist at University hospitals on the campus; son Richmond is filling a responsible position with Cities Service Refining Corporation in Lake Charles, La.

Peter Hessenstam, M.S. '44, apparently having lost his interest in chemistry, has informed us that his activities are now centered on social philosophy and international relations. We understand that he has been active for the past five years in the local chapter of

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the American Association for the United Nations (AAUN).

Among the long list of promotions announced by Alma Mater at school year's end was that of Bethel College alumnus (A.B. '41) **Erwin N. Hiebert,** Ph.D. '54, to associate professor of the history of science and Integrated Liberal Studies (ILS) departments.

School of Pharmacy's Prof. **Takeru Higuchi,** Ph.D. '43, was a Philadelphia visitor early in April at which time he spoke to the local branch of the American Pharmaceutical Association members there on the subject of the kinetics of percutaneous absorption.

The whereabouts of **J. J. Hoesly,** B.S. '24, was matter of conjecture during the past eight years or so. We last had heard that he was a Goodyear employee in Akron. Even the Alumni Records office was not in a position to help us. Help came, however, from unexpected sources: The March 28 issue of C and EN which had found its way to Japan. Badger chemist Hoesly had spotted our picture in it and wrote to tell us about his find. He is proudction director for Nippon Goodyear Kabushiki, Kurume, Fukuoka-Ken.

Four years ago, we reported that **Alma Braun Holt** (Mrs. Norman), B.A. '20, was a general science teacher in Ft. Morgan, Colo., and that she expected to retire soon. Her new address, 1672 Oxford St., Berkeley, Calif., appears to suggest that she had done so. What are the facts?

Ray C. Houtz, Ph.D. '32, has been named to a new post with The Toni Company: technical director, from director of research laboratories.

Chemistry Course graduate **Erwin O. Huebner,** M.S '27, reached Wisconsin's mandatory retirement age for civil service employees last October; and with that ended 35 years of dedicated service in the public interest. He began his career as a chemist in the laboratory of the old Dairy and Food Commission when the late Prof. Richard Fischer was its director. He retired as supervisor of food and drug control in 1959.

Several years after he had left the campus, **Clayton M. Huggett,** B.S. '38, enrolled at Minnesota for the graduate work which was to lead to an M.S. '43 and a Ph.D. '45. He was a research fellow during his residence there on an Office of Scientific Research and Development project. The doctorate achieved, he remained at Minnesota for three years more as a research associate on a U.S. Navy-sponsored project. He then joined Rohm & Haas as a research chemist and soon became research director at its Redstone Research Division. We understand that he is now director of research for Amcel Propulsion.

Wake Forest College professor **Robert N. Isbell,** Ph.D. '31, was guest lecturer to nine local sections of the American Chemical Society during the period January 11 to 21 of this year. His speaking engagements took him to Auburn, Birmingham, and Decatur in Alabama; to Atlanta, Ga.; and to the following Tennessee cities: Chattanooga, Kingsport, Knoxville, Nashville, and Wilson Dam. His subject: Trace Applications of Tritium.

Announcement was made last winter of the marriage on 26 February in Houston, Texas of **Clarence F. Johnson,** B.S. '52, and Mrs. Marjorie Carson. Clarence is with Philipps Chemical Company at its Adams Terminal Plant in polyethylene production.

Howard C. E. Johnson, Ph. D. '43, is chief editor of Chemical Week, a McGraw-Hill publication.

Robert H. Jones, Ph.D. '49, has been promoted to the managership of technical development for Petro-Tex Chemical Corporation, an equally owned affiliate of Food Machinery and Chemical Corporation and Tennessee Gas Transmission Co.

We understand that **Thos. O. Jones,** Ph.D. '37, is directing the Na-

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Katharine E. Faville

College Dean

When Chemistry Course graduate Katharine Faville, B.S. '15, enrolled in the Graduate School as a candiate for the master's degree, her professors assumed that, because of her superior academic record—she had been elected to Phi Beta Kappa—plus a deep seated interest in her field of concentration and her already demonstrated promise of success as a research worker (M.S. '16), she would make her career in chemistry. But it was not to be so; the war in Europe eventually became a factor in shaping her future activities in an entirely different field. True, she did make a beginning in 1916 in the industrial field—her first job was in the Chicago Laboratory of Sears Roebuck and Company—but she gave that up almost two years later. America by that time had been drawn into the war. The character of the laboratory had changed greatly by that time, most of her male colleagues had left for military service and, as she recalls, Mary ("Molly") Gedney, B.A. '14, and she were the only ones remaining.

A new chapter in her life was to unfold in June, 1918, when she left Sears for Vassar College to become a member of the Vassar training camp which was conducted by the American Red Cross. Its purpose was to recruit 500 college graduates into nursing and to give them preliminary preparation that summer at Vassar to fit them for admission to schools of nursing into a short program to meet military needs. Then she enrolled at Massachusetts General Hospital School of Nursing in Boston, and although Armistice came shortly thereafter, she remained there in order to finish the program which she had started. In September of 1921 she received her diploma in Public Health Nursing from Simmons College. She has been employed almost continuously since then in the practice of public health nursing or in university teaching in a nursing program.

She is currently dean of the College of Nursing, Wayne University, Detroit, a professional school offering both undergraduate and graduate programs with the aim of preparing nurse leaders to function as teachers, supervisors, administrators and consultants. And in all of these positions she has had practical experience and training. As a teacher she once served Columbia Teachers College with the rank of instructor; Western Reserve University as associate dean in its Frances Payne Bolton School of Nursing; and the College of Liberal Arts of Wayne University as director of its Department of Nursing. She was appointed to her present position in 1945.

Katharine Faville's record of activities, achievements and extra-curricular services in the public interest is one the likes of which many another woman of similar training would be proud to own.

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tional Science Foundation's antarctic research program and that he and his staff are making significant progress in their efforts to acquaint American scientists, particularly those in universities, with the research possibilities in Antarctica. There is a growing awareness on the part of scientists of the possibilities for research offered by the opening up of Antarctica, according to Tom; an increasing availability of adequate scientific facilities in the new and well-equipped biological laboratory at McMurdo Sound Naval Air Facility. Besides which, there is the possibility that special institutes can be established in the United States for workers in the academic field for whom research in Antarctica involves absence from universities and colleges during the school year. Tom should know for he is in the driver's seat of the project, and has made a personal visit to be, as far as we can learn, the first Badger chemist to set foot on the frozen wastes "down under."

We have learned that Harvard alumnus, B.A. '39, **Richard E. Juday,** Ph.D. '43, of Montana State University, is now one of a number of Badger chemists serving, or having served, ACS as a Division chairman.

Gilbert H. Koch, B.S '38, sometime chemist first with J. Greenebaum Tanning Co., of Milwaukee and then the Carnation Company, joined the staff of the Extension Division's Milwaukee Center in 1949. Now a member of the UW-M staff, he spent the academic year '59-'60 on the Madison campus as a NSF science-faculty fellow.

Ripon alumnus **John A. Korth,** M.S. '40, has been transferred by his employer, Corn Products Company, from its Argo, Ill., plant, where he was a section leader in package products, to the New York office. John's history since leaving the campus reads: with Armour & Co. from 1940 to 1943; a stint in the U.S. Navy which was completed in 1946 with the rank of lieutenant; affiliation with Corn Products since his return to civilian life. The Korth family numbers a daughter, 14, and two sons, 12 and 10. Mrs. Korth is a Ripon College alumna.

Chemist-geologist **Konrad B. Krauskopf,** B.A. '21—he holds the doctorate in both fields—addressed the Santa Clara Valley section of the American Chemical Society in Palo Alto, Calif., March 30, on the subject of the chemistry of volcanoes.

George R. Krsck, Ph.D. '49, is now the director of the Electronic Chemicals Division of Merck and Co., Inc., at Rahway, N.J.

Two-degree Badger chemist **Boris Kruchkoff,** M.S. '35, is no longer practicing chemistry. He is now a member of the firm of Harry Bremer Co., dealer in non-ferrous metal scrap.

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Sarah V. Dugan

Public Health Official

When Sarah Vance Dugan (Mrs. F. Clarke) B.S. '17, retired in June 1959, from Kentucky's State Board of Health, she ended 40 years of efforts to assure the state's citizens that the food they ate, the beverages that they drank and the drugs that they took were safe. Her work had brought her honors far from the borders of her native Kentucky and, on the day of retirement, a citation from the Board of Health which said that she has worked with other states and the Federal Government toward adoption of the Federal Food, Drug and Cosmetics law in 1938.

She worked so hard supporting that bill that, we understand, administration officials in Washington had to "call her off." While on "loan" to Washington from her state job, she stumped the Midwest and Southeast states, marshalling support among women's clubs, church groups and civic groups for the bill. This type of campaigning at government expense was frowned upon in those days, so Mrs. Dugan was sent back to Kentucky. But her work did not stop. She appeared before Congressional Committees for the next several years, until the bill was finally passed.

Mrs. Dugan's career in public health began when she received the master's degree from the University of Louisville in 1918. Upon completing a one-year term as chemist in the Panama Canal Zone—she rose rapidly from technician to director of the laboratory—she returned to Louisville to accept appointment as a food inspector. Within a year she was advanced to the directorship of Kentucky's Bureau of Food and Drugs. Three years ago she became the first winner of the Harvey W. Wiley Award of the Association of Food and Drug Officials of which she is a past president. She has served as an officer in many national and sectional organizations of food and drug officials. Among outstanding state public health accomplishments largely promoted by her were cleaning up damaged foods and drugs after Louisville's 1937 flood when she directed 33 inspectors sent there by Federal authorities.

For years she had attempted to get the Kentucky General Assembly to pass a new food and drug law to replace the antiquated one—by today's standards—of 1908. "People from other states," she once said during her active days, "kid me about out State Law. They say 'Kentucky doesn't have a food and drug law—just Mrs. Dugan's Law.' " The secret of her success lay in the fact that she enforced standards under the broad laws relating to public health generally.

Happy Landings

The **David F. Akeleys,** Ph.D. '53, welcomed their second child, a boy, to the family on 19 June 1960. His name: John Alden.

The **Donald D. Cameons,** Ph.D. '53 and B.S. '51 respectively, announced the birth of their second daughter, Gail Eileen, on 20 April, 1960, in Wilmington, Del.

A third child, a girl—she has been named Lisa—was born to the Otto Plesias (**Anne Marani,** M. S. '49), on 28 March, 1960. The family is living in New Brunswick, N. J.

The **Sirhatti V. Rao's,** Ph.D. '58, Ann Arbor, Mich., announced the birth of their second son, Santosh, on November 5, 1959.

To the **Lee T. Rozelles,** B.S. '55, Ph.D. '60, was born a son on January 22 of this year. Lee was a National Institute of Health fellow during the latter period of his graduate student days on the campus. He is now with DuPont at the Film Department in Circleville, Ohio.

To the **Eugene L. Woroch's,** Ph.D. '48, was born on June 6 of this year Scott Jeffry, "number four in (their) tax-exemption corps." Theirs is now a two-girl and two-boy family.

The **Philip L. Weynas,** Ph.D. '58, Crystal Lake, Ill., have announced the birth of a son, Paul Leo, on July 26, 1960. Paul, Sr., is with Morton Chemicals Company.

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Another Badger chemist has joined the ranks of those Wisconsin alumni who have served the American Chemical Society as a local section chairman. Elected last May to fill the Wisconsin post is **Edward M. Larsen,** B.S. '37, Ph.D. (Ohio State) '42.

Paul E. Lighty, Ph.B. '36, spent several years following graduation in the employ of Thomas A. Edison, Inc., International Nickel Company, and Sperry Gyroscope Company. He has been with his present employer, International Telephone and Telegraph Laboratories, Nutley, N.J., since 1950. He is in charge of the materials and devices group in the Physical Sciences Laboratory. The Lighty's, she is the former Florence E. Hunt, live near Lafayette in rural northwestern New Jersey.

Wendell A. Lindbeck, Ph.D '40, of Northern Illinois University at De Kalb, is at this writing at the University of California (Berkeley) as a National Science Foundation fellow.

David B. Ludlum, Ph.D. '54, is now a student at N.Y.U.'s College of Medicine. His address: 257 Harvard Avenue, Rockville Center, N.Y.

Word has come to us that **Bruce N. McBane,** M.S. '41, has changed his address from Detroit where he was assistant technical director of P.P.G.'s Ditzler Color Division to Gibsonia, Pa., which, if our memory serves, is a suburb of Pittsburgh, the home of the company's research center.

James A. Marshall, B.S '57, enrolled for graduate work at Michigan under Badger chemist **Robt. Ireland,** Ph.D. '54. Doctorial candidate Marshall expects to complete his studies there this year; and, if all goes according to plan, he will follow our Prof. W. S. Johnson to Stanford this summer for post- doctoral work.

Donald F. Mason, Ph.D. '53, is now a staff member of Argonne National Laboratory personnel: from Remington Rand.

Is Gerald R. Miller, B.S. '58, pursuing graduate studies at Illinois?

Donald H. Morman, M.S.'59, wrote us last February that he would soon be changing to a new field of work at Shell Development, Emeryville, Calif., and that his office partner there would be a Badger chemist, **Gerald Harlow,** Ph.D. '51.

Arthur K. Nelson, B.S. '54, on completing his work for the doctorate at Minnesota last summer, joined the chemistry staff of Macalester College in St. Paul.

The parents of Donna Joan Madding, Madison, Wis., announced the marriage of their daughter on 18 June, 1960, to Michigan alumnus (B.S. '56) **Frederic F. Nelson,** cand. Ph.D. Frederic is a National Science Foundation fellow in organic chemistry.

Maynette Vernsten Neuendorf (Mrs. J. K.), M.S. '48, who was married Nov. 26, 1959, is now living in Waukegan, Ill., at 562 Belvidere St.

Eugene D. Olsen, Ph.D. '60, married Betty Dee Peterson, a home economics graduate of Iowa State College, on 9 January and completed his work for the doctorate that same month. He is, at this writing, filling an instructorship in the Department and she is a dietition at Madison General Hospital.

Chemistry course classmates **Kathryn Roberts,** B.S.'59, and **David H. Olson,** B.S. '59, were married last summer. They are now living in Ames, Ia., where David is pursuing graduate work at Iowa State College and she is teaching.

Harvard professor of biological chemistry **John L. Oncley,** Ph.D. '33, has become a member of that growing group of Badger chemists who are serving, or have served, the American Chemical Society as chairman of a local section. He is the new chairman of the Northeastern Section for 1959-60.

Chemistry Courseman **Fred S. Orcutt,** B.S. '31, upon graduation decided to make his training in chemistry the background for a major in bacteriology. The doctorate in this field achieved in due time, he joined the staff of Virginia

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Phyllis A. Bott

Professor of Biochemistry

If one were to search our files for the names of those alumnae upon whom had been confirmed the doctor of philosphy degree either at Wisconsin or elsewhere, and who are now making successful careers in chemistry, he would find only a relatively few. One of them is the subject of this sketch: Milwaukee-born Phyllis Adele Bott, a Badger chemist by virtue of a B.S. '23 and M.S. '24. She is the possessor, also, of the Ph.D. degree in physiological chemistry granted her by the University of Pennsylvania in 1930. She is now professor of biochemistry and chairman of the department at Woman's Medical College of Pennsylvania.

She was a former student of the late Prof. Louis Kahlenberg under whose guidance she wrote her senior thesis on a subject far remote from her later interests as a graduate student. Prophetic of her future field of concentrations, however, was her master's thesis in food chemistry. With the aid of the family's ice cream freezer, loaned by an understanding mother, and long before chromatographic adsorption techniques had reached their present stage of refinement and after other methods of recovering the pigment mixture in honey had failed, she successfully reached her objective on her own initiative with the aid of this tool of the housekeeper as a stirring device: a viscous slurry of honey, plaster of Paris, and ethyl alcohol readily yielded its carotinoid pigment fraction to petroleum ether under these conditions. Examination of the purified extract with a constant deviation prism spectroscope then led to the identification of carotene as a honey pigment. She was without doubt on her way to a successful career as a research chemist in biochemistry.

She left the campus to take a position as instructor in chemistry at Virginia's Hampton Institute and later completed her formal education as a research assistant in physiological chemistry at Pennsylvania. At the end of a three-year association with Princeton University as a research associate in biology, she returned to Pennsylvania as a research associate in the Department of Pharmacology, then for eight years was a consultant in clinical chemistry at Woman's Medical College.

Her department is now housed in fine new quarters on the top floor of the College's new multi-million research wing. Understandably proud of the quarters, the planning of which, we understand, was part of her extracurricular duties, Phyllis says, "Our principle function here is to do a good job of teaching women medical studies, tho' we now have graduate courses open to both men and women." We are sure that she will do it.

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Polytechnic Institute. He has recently been named head of the VPI's biology department. Fred is a son-in-law of the late Prof. F. C. Krauskopf.

Announcement was made late in June by Ripon College of which she is a graduate, and currently a member of its chemistry faculty, that **L. Leone Oyster,** M.A. '20, had received a Uhrig Foundation award of $500 for excellence in teaching. Badger Chemist extends a congratulatory hand to Miss Oyster.

Helmut F. Prahl, Ph.D. '59, is now a research chemist at Chemstrand Corporation, Decatur, Ala.

Abner B. Prescott, B.S. '41, is one of three employees in the product control department of Oscar Mayer and Co., Madison, whose promotions were announced last October. He had started as technical assistant to the Madison controller of this firm in 1952 and was general product engineer at the time of his promotion. He is now spice division supervisor.

Sirhatti V. Rao, Ph.D. '58, has completed his two-year tenure as a research associate at the University of Michigan and has returned to his native India with his wife and two sons.

Schlitz Brewing's retiree **Hugo W. Rohde,** B.S. '01, informed us that he had donated "forty feet of books to the library of UW-M." At age 83", he remarked, a person cannot be expected to do much reading."

James W. Ross, Ph.D. '57, holds an assistant professorship at Massachusetts Institute of Technology.

Emeory University's professor **E. Earl Royals,** Ph.D. '44, addressed four local sections of the American Chemical Society on the subject of the chemistry of epoxidation and terpene epoxides in the period November 3 to 6. His itinerary: Bloomington, as guest of the Southern Indiana group; University of Louisville; Evansville College where the Indiana-Kentucky Border section was host; Terre Haute, Indiana, as guest of the Wabash Valley section at Indiana State Teachers College.

California newspapers carried a story under a Davis headline last October in which Chemistry Courseman ('24) **Peter P. T. Sah,** M.S. '24, Ph.D. '26, who is a member of the staff of the Department of Pharmacology, Physiology, and Biochemistry, University of California School of Veterinary Medicine, played the major role. The story: Royalties from five new drugs, named after University of Wisconsin President Conrad A. Elvehjem, which promise to be 10 to 20 times more effective in the treatment of tuberculosis and other infectious

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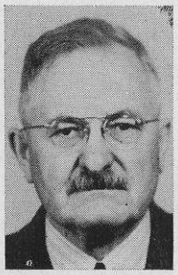
Harry A. Curtis

Retired TVA Director



We understand that Colorado alumnus (B.S. '08, M.S.'12) Curtis, Ph.D. '14, "accidentially" stumbled into the field of chemistry during his grammar school days when, after having wrecked his mother's kitchen stove, he continued his experiments in the family's woodshed where he had set up a laboratory. Later, in high school an understanding teacher gave him free access to the laboratory; and, as a result of this, there was instilled in him a fascination for chemistry and a lasting interest in and love for it.

In the autumn of 1904 he enrolled in the College of Engineering at the University of Colorado electing to pursue the then newly organized course in chemical engineering, happily unaware of the fact that no one on the faculty had the slightest notion as to what chemical engineering might be. The actual curriculum which he followed was the mechanical engineering sequence of subjects modified by deletions and the addition of all the courses in chemistry offered by the university. It was a situation very much to his liking.

Doctorate status achieved at Wisconsin, he returned to Colorado as professor of chemistry to resume his interrupted role as an educator. Then came World War I, and a hope that he would be sent with our armed forces to Europe, for he was at that time a member of the Colorado National Guard. After a short hitch in Washington, he was sent by the Ordnance Department to Alabama to take charge of the Sheffield Experiment Station. After war's end he spent a semester at Northwestern University as professor of chemistry. In the forty some years that have elapsed since then he followed chemical engineering in various lines; interrupted industrial work for a seven-year period in order to establish a course in chemical engineering at Yale University's College of Engineering; put in another hitch in industry; and followed that by five years in the Federal service as chief chemical engineer of the TVA; and ten as dean of the College of Engineering at the University of Missouri. In 1949 he returned to the TVA as a director, a post from which he retired three years after having passed the Biblical three-score-and-ten age.

Three universities, Colorado, Wisconsin, and Louisville, have conferred honorary degrees upon him and the University of Tennessee this year awarded him the Nathan W. Dougherty medal as the State's top engineer. The East Tennessee section of ACS honored him at a dinner this spring on the occasion of his 50 years of continuous membership in the Society.

Harry is widely known and respected for his accomplishments in chemistry and chemical engineering. He is endowed with a gift of leadership and organizing ability. Through all his notable career, weaving in and out, never broken and never frayed, is the thread of regard and affection for him by the members of professional chemical fraternity Alpha Chi Sigma whose president (Grand Master Alchemist) he was in the younger days of this organization.

In 1911, "encouraged by a salary raise to $1000" he married a 1908 classmate, Irene Hall. The Curtis family tree now numbers two daughters who have presented their parents with five grandchildren.

Richard Fischer Scholarships

The late Professor Richard Fischer, (1869-1955), fondly remembered by his former colleagues as a teacher of unusual ability, loved and respected by his students because of his warm personal interest in their activities and his generosity in times of need, had bequeathed to the Department $10,000 as a loan fund for future generations of chemistry majors. The income from this bequest is now being used for the first time to implement a scholarship in his name. The first to benefit from Doctor Fischer's generosity are Wisconsin residents Herbert A. Beall, Ch.C.4, of Appleton and Daniel J. Hoy, B.S. 3, of West Bend. The financial burden of each will be lightened during the school year 1960-1961 to the extent of $375.

Future Badger Chemists

The 1959-1960 staff list of the Chemistry Department faculty and graduate students gives support to the often made observation that the sun never sets on the homeland of our graduate student body, which currently numbers almost 190 individuals. Exactly 20 of them have a foreign address, and of this number Asia has contributed ten. Five of them claim either Taiwan or Nationalist China as their homeland; two are from Hong Kong. Iran, Japan, and Korea contributed one each to the group of future Badger chemists; and the same holds for Egypt and Greece. Eight graduates of three Canadian universities complete the list.

Some 95 universities and colleges are represented in the 166-name list of graduate students from the United States. Geographically their respective alma maters spell a coast-to-coast and border-to-border distribution. Its western border is Hawaii. The University of Michigan with ten representatives is runner up to Wisconsin's baker's dozen. Illinois follows with seven, and then come Oberlin and California with five each. Four MIT graduates had selected our University as the school at which to pursue work for a higher degree. Eight universities and colleges (Albion, Amherst, CCNY, Dartmouth, Harvard, Northwestern, Washington University, and Iowa State) beyond the Wisconsin border are each represented by three of their graduates. Numbered among those schools from each of which two students have come are the following four colleges: Berea, Brooklyn, Rockhurst, and St. Olaf; and seven universities: Brown, Miami, Penn State, Purdue, Willamette, Yale, and Stanford.

A lack of space does not permit a list of the some sixty schools each represented by one graduate. A cursory inspection of that list, however, reveals such names as California (Riverside), Brigham Young, Cal. Tech., Georgia Tech., Carnegie Tech., Cornell, De Pauw, Johns Hopkins, Notre Dame, Nevada, New Hampshire, New Mexico, Ohio State, Pennsylvania, Rice Institute, Texas, Southern Methodist, Washington and Jefferson, West Virginia and Worcester.

Four Wisconsin tax-assisted teacher's colleges (Oshkosh, Platteville, River Falls and Stevens Point) are represented by seven of their graduates, and two of the several endowed liberal arts colleges within the State (Beloit, St. Norbert) have each given us one future Badger chemist.

George W. Heise

Doctor of Science

When George W. Heise received his diploma from the late President Charles R. Van Heise, in 1909, he became an alumnus of our University for studies completed in course; when he received a diploma last June from the president of Cleveland's Fenn College, he became an alumnus of that school for quite another reason: recognition by honorary degree of his illustrious life-long record of accomplishments in research. The citation follows:

"Mr. President, I have the honor to present George W. Heise, outstanding industrial scientist. Born in Milwaukee, Wisconsin, he was educated in the public schools of that city and at the University of Wisconsin, where he was awarded the degree Bachelor of Science in 1909. He taught chemistry and physics at Grinnell College and at DePaul University before returning to his alma mater to receive the Master of Science degree in 1912.

"For four years, while serving the Philippine Bureau of Science at Manila, he made an important field survey of Philippine waters which contributed significantly to the improvement of the public health of the islands. Then, after serving in the Quartermaster's Corps and the Chemical Warfare service of the United States Army during World War I, he started a long and distinguished career with the Research Laboratories of the National Carbon Company. A pioneer in developments which made the modern dry cell battery possible, he is responsible for much of the fundamental investigation of the chemistry of the manganese system and other important primary developments in the physical and electrochemical fields in which he has attained world wide recognition. The author of many scientific and technical papers and the holder of more than four score patents, he is still engaged in research and writing.

"An able administrator, admired by his co-workers for his understanding, sound judgment, and vision, he has been a source of inspiration and encouragement for many young scientists. He is a former National President of The Electrochemical Society, the winner in 1954 of the Society's coveted Acheson Award, and for several years has served the National Research Council of this country as Chairman of the Battery Panel of the Underseas Warfare Committee.

"For his endowments of mind and spirit, for his life-long record of continuous giving of himself to research, his profession and society, I present this dedicated servant of mankind to you on recommendation of the faculty and the board of trustees for the honorary degree of Doctor of Science."

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diseases than the present 'wonder drug' antibiotics, will be split between the Universities of Wisconsin and California." Described by Badger chemist Sah as anti-tuberculosis agents, and christened" as the CAE drugs, they are derived from 3-ethoxy-4-hydroxybenzaldehyde. We understand that they are still being tested for human and animal use.

We were informed by **Carl F. Georgi,** B.S. '30, of Nebraska's Department of Biochemistry and Bacteriology, that a classmate, **Raymond F. Schultz,** is now an employee of Co-Polymer Corporation of Baton Rouge, La.; from Hercules Powder.

It has been brought to our attention that three-degree **E. J. Schwoegler,** Ph.D. '39, is now on his own in that he resigned from Armour Research Foundation, where he was senior scientist, to establish a research and development laboratory in Chicago bearing his name.

Did Hoffman - LaRoche retiree **Elmer L. Severinghaus,** B.A. '16, M.S. (Harvard) '20, spend some three months within the last calendar year in Djakarta as guest lecturer on nutrition and endocrinology at the Medical School of Indonesia? In our last letter to our Badger chemist alumni we remarked that he was again an educator: now as a professor of public

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This 'n' That--

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health nutrition in the School of Public Health and Administrative Medicine of Columbia University.

Robert S. Shaw, M.S. '58, at last report, was a Rohm and Haas research chemist.

We were pleasantly surprised recently to find in the University's 1959-60 staff directory the name of a former Shanghai resident, **Mathew H.-S. Shen,** B.S. '22, Ph.D. '25, long listed in our files as address unknown." His last address had been Tsing Hua College, Peking, where he was a professor of chemistry. His return to the campus as a post doctoral fellow in chemical engineering was made possible by a China Foundation fellowship. We understand that he is a staff member of an engineering college in Taiwan.

Illinois B.S. alumnus **Edward E. Smissman,** Ph.D. '52—he holds an associate professorship of pharmaceutical chemistry in the School of Pharmacy—is chairman of the Society's Division of Medicinal Chemistry. We understand that, effective with the opening of the new school year, he will join the University of Kansas as professor and head of the department of pharmaceutical chemistry.

Thor L. Smith, Ph.D. '48, has a new California address: from La Crescenta to Los Altos Hills. He is now with Stanford Research Institute as head of solid propellant research and development.

Hampton K. Snell enrolled in the University in the early 20's obviously with a career in chemistry as his objective, but left the ranks as a junior and went over to commerce in which field he qualified for both the bachelor's and the master's degree, '25 and '28, respectively. He is now a professor of transportation in the University of Texas, College of Business Administration.

We have learned that **John R. Soulen,** Ph.D. '56, is now a project leader at Pennsalt Chemicals Corporation.

Bruno A. Stein, M.S. '23, on receiving his second diploma, left the campus but not the city for he entered the employ, as a colloid chemist, of the Marschall Dairy Laboratory of Madison. He is now serving as its president. The laboratory was founded by A. J. Marschall at the turn of the century. It began as a manufacturer of rennet extract and color for cheesemakers, and was a two-man operation whose total weekly output was a 10-gallon keg of rennet. Now, with a greatly enlarged product line, it fills the needs of other facets of the dairy industry. Among its products are chemical specialties for testing milk, starter cultures, rennet pastes, etc.

Gilbert J. Stork, Ph.D. '45, is one of the 35 new members elected to membership in the National Academy of Sciences because of distinguished and continued achievements in original research.

Dow Chemical's **Leo E. Streeter,** B.S. '40, and **A. R. Prince,** Ph.D. '56, were campus visitors early in March.

Paul S. Stutsman, Ph.D. '38, has a new address: 4675 Barton Lane, Beaumont, Texas. He is assistant to the president of Texas-U.S. Chemical Co., Port Neches.

Glenn R. Svoboda, B.S. '52, spent the school year 1958-59 on the campus, the first semester as an instructor in the Department. In the second semester he moved to the Pharmacy wing of the building with the same rank. We have learned from the Alumni Records office that he now has a Port Washington, Wis., address. Before that he was at Oregon State College, Corvallis.

Lester J. Teply, B.S. '40, is now chief nutritionist with the United Nations International Children's Emergency Fund (UNICEF), U. N. Secretariat, New York. He was formerly a chemist with the Wisconsin Alumni Research Foundation.

Eugene R. Wagner, B.S. '59, appears to be headed for a higher degree from Alma Mater. He holds a National Science Foundation fellowship and is pursuing graduate work under Professor van Tamelen.

During the course of a pleasant visit with Union Carbide Plastics Company's **Harold F. Wakefield,** M.S. '23, early in June we learned that (1) Wake" had come to Mad-

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John Godston

Food Processing Consultant

Food figuratively and literally put John Godston, Ph.B. '28, through college. As a Freshman he fried doughnuts and sold them to the fraternities on his spare time. As a graduate he worked for 17 years for two consulting firms, The W. E. Long Company in Chicago and The Applied Sugar Laboratories Corporation in New York, a subsidiary of the American Molasses Co., an affiliate of the Nulomoline Co. During World War II he was in Washington, D. C., in charge of the new food program of the U.S. Department of Agriculture, working chiefly on problems of the Armed Forces, especially those concerning viable dried yeast. Then followed a 14-year period when he was on his own as a travelling consultant on technical and management problems arising in the baking, confectionery, canning and frozen foods industries. All of this ended in August, 1958—temporarily, we presume—when he arrived in Taiwan to become one of some 25 food-processing specialists in the employ of J. G. White Engineering Corporation, consultants to the Government of the Republic of China.

His particular field of activity is diverse as to contacts: The pineapple canneries; the dairy and meat industries; factories preserving fruits; those making soy sauce which is used there not merely as a condiment but also as an important protein food to the extent of millions of gallons annually, or two ounces per day per person; those dehydrating fruits and vegetables, or refining fatty oils.

He is married to the former Rachel Phillips, B.S. '29 in physical education. Their union has been blessed with three children: Joel, a graduate of Rensselear polytechnical Institute, is an honorably discharged (December, 1958) first lieutenant from the Air Force; had been a co-pilot of a B-47 bomber; is now employed by Pratt and Whitney Aircraft. Another son, "Arjay," at this writing is completing his senior year at Montana State College. He has been following a general course of study with emphasis on business administration and chemistry—slanted toward food. Athletically inclined, he has played right guard on the Bob Cats starting team. Daughter Ruth is with her parents in Taipan. She is attending the American High School there. Her parents "hope" that she will some day matriculate at Alma Mater. If she does, she will be carrying on a family tradition.

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ison for the fiftieth anniversary of the U.S. Forest Products Laboratory, (2) that he had accepted an invitation to serve as chairman of this summer's Gordon conference on adhesion, (3) that the Wakefield son is a junior in mechanical engineering at Cornell, and (4) that their daughter is a high school junior.

Pi Wang, Ph.D. '52, is in charge of Sylvania Electric Product's chemistry and materials department. Some 35 people make up its personnel list.

We have been advised that **Hilda F. Wiese,** B.S. '19, Ph.D. (Minn.) is no longer in Galveston, Texas. She is now director of the Bruce Lyon Memorial Laboratory. Her address: 151 McAdam Apts., Oakland 11, Calif.

B. R. Willeford, Ph.D. '51, is now an associate professor at Bucknell University.

Because his attention had been called to the fact that his name appears in the addresses-wanted column in the last newsletter, **Henry N. Wolf,** B.S. '20, wrote to let us know that he is employed by Blumenthal Bros. Chocolate Co., of Philadelphia 15, Pa. He is chief chemist in charge of research and development.

Chemistry Courseman **Vitte V. Yusas,** B.S. '51, who, during his undergraduate days was an ROTC student, returned to the campus last September with his wife and two sons to pursue graduate work for the master's degree under Professor Meloche. He holds the rank of captain, USA, and is stationed at Ft. McClellan, Ala.

Lawrence L. Zoch, Jr., B.S. '51, is a staff member of the Forest Products Laboratory. He was at one time with the Barley and Malt Laboratory, where he did his bachelor's thesis.

We have only recently learned that **Donna S. Zywicki,** M.S. '58, holds an instructorship in the Extension Division's center at Green Bay.

You Said—

Although not a native of Wisconsin, I was so fond of the state and its university that I have sort of adopted both. Among the many privileges which life has bestowed on me, I count my attendance at Wisconsin near the top. So you see, it is no surprise that your Badger Chemist is so much appreciated." —David Akeley, Ph.D. '53.

Thanks again for the Badger Chemist. It is a big job, and we appreciaate your efforts. My check is enclosed. I hope this will keep me up-to-date for a while."—Robert E. Burks, Jr., Ph.D. '48

I certainly enjoy the 'Badger Chemist.' All the other alumni I see also think it is a real contribution. Best personal regards."—Roger M. Christenson, Ph.D. '44

"I think all of us are very grateful to you for the trouble you have taken with the Badger Chemist. I also think that if you have a financial problem, many of us would be willing to make an additional contribution in order to insure its continuation."—Ralph Conner, Ph.D. '32

The Department's Early Days: Then & Now

The Department has come a long way since the days of S. Pearl Lathrop (1854) and Ezra S. Carr (1855-1868) who occupied the chair of chemistry and natural history in the days when the University operated on a three-quarter system and the incumbent of the position unassisted taught chemistry and natural philosophy" during the first term, followed that during the winter period with geology and mineralogy, and, in the spring, ended the school year with a course in the natural history of plants and animals—and a brief excursion into the field of human physiology. It was not a chair in the literal sense which these early teachers occupied; rather it took on the proportions of a bench. The day of the specialist was still to come.

And that breakaway from the day of the general teacher—thanks to the Morrill Act of 1862—came when the University received a new lease on life with the onset of post-Civil War and the appointment by President Paul A. Chadbourne in 1867 of two new faculty members, Lawrence College alumnus John F. Davies, as successor to Carr, and W. W. Daniells, a Michigan state graduate, as professor of agriculture, for the purpose of strengthening the sciences in accord with a new policy of placing some emphasis upon the practical arts. Within a year "and analytical chemistry" was added to his title. Organic chemistry received its first recognition as a separate course of instruction in 1885 when Homer H. Hillyer, B.S. '82, Ph.D. (Johns Hopkins) '85, was added to the staff. Physical chemistry received recognition in 1898 when Louis Kahlenberg was appointed instructor in this field.

At school year's opening last September (1959) what was once a one-man department now, 105 years later, has an instructional staff roster containing the names of 31 active members of professorial rank, three instructors, and 70 teaching assistants. The research work of the staff is being carried on with the aid of some 90 research assistants, four post doctorate fellows, and ten project assistants. Eleven corporations support the work of 12 industrial fellows, The National Institutes of Health sponsor three fellows, the Woodrow Wilson Foundation sponsors two. The National Science Foundation is, in a sense, represented by the largest number of fellows whose graduate careers are being given a health assist from public funds: exactly 23 belong to this group.

Space Flight Conference

The Conference on Physical Chemistry in Aerodynamics and Space Flight held early in September, 1959, at the University of Pennsylvania under the aegis of the Air Force Office of Scientific Research and the Missile and Space Vehicle Department of General Electric Company had a decided Wisconsin flavor.

Chairman of the conference was General Electric's A. L. Myerson, Ph.D. '49. S. S. Penner, Ph.D. '46, who is now professor of jet propulsion, California Institute of Technology, presided over the session devoted to gas phase reactions and kinetics. C. F. Curtiss, Ph.D. '48, of our Department conducted the session at which the thermodynamic and transport properties of gases provided the theme for three papers read there. Our Prof. John L. Margrave was in the chair for the session at which five papers on surface and solid phase reactions were read. The fourth member of the group of chairmen was Dr. M. Zelikoff, a vice-president, research, of Geophysics Corporation of America, before whose session six papers on experimental methods were read.