Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 7 Autumn 1959

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SNOWFALL ON EAST SLOPE, OBSERVATORY HILL

Picture credit: WISCONSIN ALUMNUS

May the Year 1960 be one of happiness, good fortune and good health!

BADGER CHEMIST

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

Newsletter 7 **Autumn, 1959**

Our Newest Alumni

A review of our last ten years with respect to the annual growth of the Department's alumni list in terms of number of degrees earned shows a healthy 917. The growth curve is, of course, abnormal because of the sudden large influx of students at last war's end; still the average of 91 is a good one for the books. The average for the past five years is 74, a figure whose "order of magnitude" except for the academic year 1958 when it fell to 55, has been fairly well maintained to the present. Exactly 77 graduates comprised the group receiving diplomas in the period July 1, 1958 to June 30, 1959. The Ph.D. class of 26—it was 24 percent larger than the preceding one—brought the Department's 60-year total for this degree beyond the 900-mark. The 19 that went to master's degree candidates represented a 90-percent gain; and the 33 to the bachelors a rise of 33 percent. All told it appears that the decade closed, statistically, at a rate approximately normal; and, in this respect, better than it began.

Nine of the graduating seniors were privileged to wear the fourragere at Commencement as a mark of distinctive scholarship achievement. It is a recognition which is based on a minimum grade-point average of 3.25 for at least three semesters' work at the University beyond the sophomore year. Six in this group were among the 24 seniors

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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 seventh annual newsletter, our warmest thanks. We do appreciate your financial assistance, for without it Project Badger Chemist could not exist. No state funds can be tapped for the purpose; in fact we rather prefer it that way because of the feeling of independence which it engenders. 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.

A new name appears at our masthead with this issue of Badger Chemist. Ann Ratcliff Bergen has joined us in the preparation of the newsletter. Her assistance has been invaluable to us at a time when we needed help most.

Although we are reluctant to remind you of our financial needs and the urgency of your support, we do not hesitate to suggest—and we are assuming that enough of you want a newsletter—that it lies in your hands to remember to share with others in the continuation of Project Badger Chemist.

The newsletter fund is solvent at the moment, made so by a small balance from last year and contributions of about $580. The drive for financial help received an encouraging start at the ACS Wisconsin luncheon in Atlantic City last September when the sum pledged at that time by "initial givers" totaled some $80.

H. A. S.

Newest Alumni--

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in the College of Letters and Science granted honors in their major fields of study for superior achievement. Their grade point averages ranged from 3.59 to 3.92 out of a possible four.

Chemistry's contribution to the 1959 group of distinguished scholars includes the following seniors: Barbara O. Wiggert, B.A.; Chemistry Course graduates Ingetraud Rennenkampff Brieger, Robert A. Grimm, John E. Harriman, David H. Olson, Kathryn Roberts Olson, and Eugene R. Wagner; B.S. (general): Betty H. Johnson and June A. Swift. Mrs. Brieger, Grimm, Harriman and Wagner had been elected to Phi Beta Kappa, and Miss Swift and Wagner to Phi Kappa Phi, National Scholastic Honor Society. John Harriman was the Department's recommendation for the American Institute of Chemists' Award and also the Theodore Herfurth Award in forensics. Thesis Honors for an exceptionally fine piece of work went to David Olson. On the recommendation of the Department the following were granted honors: Mmes. Brieger, Olson and Wiggert, and Grimm, Harriman and Wagner. Numerically the chemistry majors dominated the field; there were four in the B.A. group and 18 in the B.S. (general) category. Honors-wise, however, the Chemistry Course enrollees led the field by the fact that six of the class of ten graduated with a grade-point average of 3.25 or better!

Exactly 27 universities and colleges comprise the list of schools upon whose graduates the doctorate had been conferred by Wisconsin. The only foreign student in the group had come from Mysore University in India. A similar breakdown with respect to the master's degree is 17, with one student each from Bangkok in Thailand and Rangoon in Burma.

Industry attracted 11 of the doctor's degree graduates, a like number accepted teaching positions, two are at this writing engaged in post-doctoral research, and two are associated with government-sponsored laboratories. Information with respect to the activities of the master's degree graduates is not yet available.

Ph.D. Degrees Conferred August, 1958

Joseph E. Brenner—Massachusetts Institute of Technology; Rodney B. Clampitt—Du Pont; Raymond P. Iczkowski—Wisconsin; Frederic A. Johnson—Rohm & Haas; Thomas A. Lies—Wyandotte Chemicals; Robert E. Tarney—Du Pont; Philip E. Weyna—Morton Chemicals.

Ph.D. Degrees Conferred January, 1959

John W. Berge—Du Pont; M. S. Chandrasekharaiah—Karnatak University; Richard D. DeMars—International Business Machines; Irving I. Domsky—Yale; Morton A. Eliason—Augustana College; Robert J. Goll—Northwestern; Donald W. Jepson—Oxford; Leonard J. Nugent—National Bureau of Standards; Helmut F. Prahl—Chemstrand; John E. Quinlan—Du Pont; David C. Remy—Du Pont; Myran C. Sauer, Jr.—Argonne National Laboratory; Austin H. Young—A. E. Staley.

Ph.D. Degrees Conferred June, 1959

Richard W. Ahrens — Du Pont; Luther E. Erickson—Dickinson College; William G. Givens, Jr.—Norwich University; Gordon G. Hammes—Max Planck Institute; Irwin Siegelman—Pennsylvania; Daniel F. Stogryn—Lockheed Aircraft.

The master's degree was conferred in August '58, upon Bruce I. Dittmar (Bucknell), Thomas C. Ehlert (Wisconsin), Karen J. Lake (Southern Methodist), Allan S. Moore (Philander Smith), Shirley R. Pomeroy (Wisconsin), Brian G. Ramsey (University of South Carolina). Charoen Sakoonkim (University of Bangkok), and Emmanuel A. Skrabek (Maryland). The January '59 class consisted of Kenneth H. Decker (Wisconsin), Thomas R. Hodge (Franklin College), and William K. Young (Tufts). At school year's end, June '59, the master's degree was conferred upon Thein Aung (Rangoon University), William F. Benusa (Wisconsin), William J. Cole (Duke), Charles S. Kraihanzel (Brown), Richard E. Laramy (River Falls Teachers), Maurice E. Loomans (Hope College), Thomas E. Newlin (Earlham), and Joseph A. Skorcz (Marquette).

Recipients of the bachelor's degree, besides the nine mentioned above, were the B.S. (general) groups of August '58: Roger B. Clark, Theodore J. Kovacic, Jordan A. Pearlman, Arnis Skadulis; the January '59 class: Monona Bergor and Marlyn Paul Hendrickson; and the June '59 class: Carl T. Cori, Richard D. Cyr, Ralph H. Gee, Ronald R. Krautkramer, Jerold A. Last, Ralph L. Lau, Gerald W. Lundeen, Sherrill Ann Peterson, Bruce D. Skofronick, and Suzanne Woock. Two Chemistry Coursemen gradu-

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Re: The Faculty

The year 1959 brought into the foreground several half-century markers for Prof. and Mrs. J. H. Mathews. First, although not chronologically so, was their golden wedding anniversary on June 26. This is the first time that such an event has occurred in the Department's one hundred year history. To the Mathews were born two children, Marion, who is now Mrs. Norman H. Withey and Jean, who is married to Prof. Chas. C. Watson. Marion added three children to the family circle: Eleanor (Mrs. Fred Hicks), Norman M., and Jackman; and Jean's contribution is Richard M. Doctor Mathews, on completing fifty years of continuous membership in the American Chemical Society this year, received a certificate last spring, attesting to this fact. Both Mathews "made" the University's Half-Century Club several years ago, he in 1953 and she, the former Ella Gilfillen, in 1957. And Doctor Mathews' membership in Alpha Chi Sigma fraternity, of which he is a founding father, is even longer. It dates from 1902.

Announcement was made last June of the following promotions: instructor Lawrence F. Dahl to assistant professor, assistant professor Irving Shain to associate professor, and associate professors Harlan L. Goering, Edward L. King, and Eugene E. van Tamelen to professor.

Prof. Edward M. Kosower had himself a trip at summer session's end—with an assist from NIH and an Air Force research grant—taken in order to attend, as a participant in the program, the European molecular spectroscopy meeting in Bologna, Italy. His report was on the alkyl pyridium iodide charged spectra. Before returning home he lectured in Zurich and in Basle, Switzerland and in Freiburg, Heidelburg, and Marburg in Germany.

Professor Alberty's list of extracurricular lectures since our last report includes four given before the local sections of the Chemical Institute of Canada in Winnipeg, Saskatoon, Edmonton, and Vancouver in autumn of 1958. The month of September of this year found him at the Max Planck Institut fuer Physikalische Chemie in Europe participating in an international symposium on fast reactions in solution. His subject: On the Relaxation Spectra of Enzyme Reactions. Before returning to the States he addressed also an audience at the University of Marburg.

Profs. L. F. Dahl and Robert West have each been given a substantial grant from the Petroleum Research Fund of ACS for research in their respective fields. Dahl will continue his studies on organometallic complexes and West his on hydrogen bonding with hydrocarbons.

Prof. Walter J. Blaedel was one of the group of staff members attending the Boston meeting of the ACS. His subject: The Use of Kinescope Films in Analytical Chemistry.

Prof. John L. Margrave has received a $44,500 appropriation for the next three years from the National Science Foundation for research on gas-solid interactions at high temperatures. Much of this work on structural changes in elements at high temperatures has been useful in the development of more efficient atomic reactors and propellants for high-speed jet aircraft and rockets.

Prof. Edwin M. Larsen has been awarded a $12,000 two-year National Science Foundation grant in support of basic research. His project centers on reduced states of the transition elements.

Prof. Irving Shain read a paper last March at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy on the subject of the application of constant current potentiometry to non-aqueous titrations of weak acids.

To Prof. Robert West came the opportunity last September of crossing the Pacific Ocean in an Air Force plane on his way to Tokyo for a meeting of the Japanese Chemical Society. Taking part in a symposium on pi-bonding, he read two papers in Japanese on research in this field at Wisconsin.

Prof. Louis J. Gosting, Ph.D. '48, is one of four Wisconsin scientists in whose behalf a $95,700 grant was made by the National Science Foundation in support of their respective research projects.

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John D. Ferry

Chairman

A tradition of some fifty years standing — some aver, with perhaps justification, that it is merely a coincidence — was kept alive when the successor to Professor-emeritus Daniels was named for the chairmanship of the Department last June. It began with physical chemist Louis Kahlenberg, was continued, in turn, by two Harvard graduates, and is now being carried on by a Stanford alumnus: capable, modest, unassuming John Douglass Ferry, A.B. '32 and Ph.D. '35.

Doctor Ferry, who is internationally known for his studies on the viscoelastic properties of macromolecular systems, brought to his new position a record of accomplishments which include two Medal Awards of the American Chemical Society: that of the Eli Lilly Company in biological chemistry in 1946 while he was on the staff of Harvard University, and that of the Kendall Company in colloid chemistry for 1960. The Bingham Medal of the Society of Rheology was awarded him in 1953. Invitations to give lectures in his specialty have come to him from both Cambridge and Oxford in England, from research centers in Belgium, Germany, Holland, France, and Sweden. His crowning recognition came last spring when he was elected to membership in that blue ribbon group of scientists, the National Academy of Science. He is currently vice-president of the Society of Rheology and is a past chairman of the Division of Colloid Chemistry of ACS.

He has trained to date some 25 Ph.D students, who will be found in educational circles, in government employment, and in industry. His list of publications numbers some 35 made before he arrived on the Madison scene in 1945 and about 100 which bear a Wisconsin imprint.

If our memory serves, he has taken only one extensive leave of absence since his days as an assistant professor in the Department; and that was taken this year in Brussels while on a National Science Foundation senior fellowship. Research and writing—he is getting out a book in his specialty—some travel, and participation in a colloquium at Strasbourg occupied his time while abroad. Mrs. Ferry and their two children, Phyllis and John Mott, accompanied him.

Newest Alumni--

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ated in January '59 and eight others made up the June class. Not already named in this new alumni list are Ronald A. Razner and Carl W. Seidel, and Carol M. Christensen, Bonita J. Jackowitz, Vincent Chao-Yang Kao.

Re: The Faculty--

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That hardy perennial: what price graduate assistants as part-time teachers in laboratory and quiz sections in freshman chemistry, came to the fore again about a year ago, and Prof. C. H. Sorum was delegated to give the answer to the Board of Regents. Supported by ten of his graduate students as "witnesses", he submitted to them in formal meeting the following brief: The system now in use is practically inevitable because (a) not enough full time teachers are available and (b) the cost of employing full time staff members to teach the freshman classes would be prohibitive. Besides which, he pointed out, the system has its benefits in that the financial support enables qualified scholars to do graduate work; it serves as a training ground for future college teachers; and it provides senior staff members with graduate students to assist in research. The graduate student's reaction to the grad assistant teaching plan was that it provides a personal testing ground for teaching of chemistry as a career and that the financial support is necessary for continuing their own studies. One assistant, a graduate of a New York college, speaking from experience, suggested that freshmen feel freer to seek out younger teachers for counsel than senior members, adding "I know that as an undergraduate I was afraid to ask questions of my older professors."

Prof. Aaron J. Ihde organized the History of Science Division's Symposium on Midwest Collections in the History of Chemistry presented at the Chicago ACS meeting in September, 1958. He also presented a paper at that time on the history of geometric isomerism and tautomerism at the Kekule-Couper symposium. A week later he flew to Fargo, N. D., where he talked on "Science and the Future" at the South Dakota Conference of Farmers and Workers. In January the Northeastern Wisconsin ACS Section heard him discuss the problem of chemical additives in food. The Kanawa Valley Section invited him to give an illustrated lecture entitled "Alchemy" in April. "The Second Scientific Revolution: Can We Meet the Challenge?" was the subject of his Honors Convocation Address at Carroll College in May. For the third consecutive year he opened the NSF Institute for high school science teachers at South

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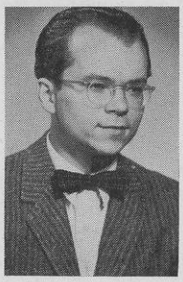
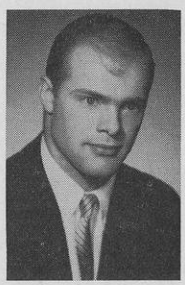
Our New Instructors



Edward O. Stejskal joined the physical chemistry division in 1958. He is a two-degree alumnus of the University of Illinois, B.S. '53 and Ph.D. '57, and spent one year after graduation at Harvard as a post-doctoral fellow under Professor William Moffitt. At Illinois his major professor was Dr. H. S. Gutowsky. His research interests lie in the field of proton magnetic resonance.



David M. Lemal, an Amherst alumnus, A.B. '55, joined the organic chemistry division in the fall of 1958 upon completing his graduate work at Harvard under Dr. Robert Woodward. His doctoral dissertation dealt with the configuration and synthesis of the rare sugars mycarose and cladinose. He is deeply interested in that area of chemistry which lies between the organic and the biological.

Monroe V. Evans, Jr., left the campus in 1953 upon acquiring his B.S. degree and headed for the east to enroll in Massachusetts Institute of Technology for graduate work with the doctorate as his objective. That end achieved in 1957, he accepted an invitation to return to Wisconsin to fill a vacant instructorship in analytical chemistry. At school-year's end, however, he was called up for military service and assigned to Aberdeen Proving Ground where he was made a group leader in physical organic chemistry. His particular interests lie in the field of infrared problems.

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Dakota State College with a series of lectures entitled "Milestones in Modern Science". In July he presented the science series of lecture-discussions in a four-week alumni seminar dealing with the conflict of ideas in modern western culture. This seminar, a pioneering effort sponsored by the University Extension Division, provided an opportunity for alumni to refresh and update their liberal education.

Professor Willard's interest in "hot atom" chemistry, a field in which he has been working for some 20 years, has brought him a tangible recognition of his labors: the 1959 American Chemical Society Award, with stipend for Nuclear Applications in Chemistry. It is sponsored by the Nuclear-Chicago Corporation. His research in this field has contributed a better understanding of the chemical effects of nuclear transformation. For example, he and his collaborators were the first to observe that iodine atoms activated by radiative neutron capture are able to displace hydrogen from methane to form methyl iodide. Activated chlorine in the presence of propyl chloride can displace most any hydrogen atom or organic group from the propyl chloride molecule in order to give a variety of stable combinations. Doctor Willard's work day at the University now puts him in the position of playing a double role, not an unusual one at Wisconsin. In the morning at the Chemistry Building he functions as a professor of chemistry, that is on the administered end of his activities; in the afternoon, he will be found at his office in Bascom Hall as dean of the Graduate School, or on the administering end.

The number 20 as an anniversary statistic stands out in the career of Prof. William S. Johnson. It was 20 years after graduation from Amherst that he was invited back to the campus to receive an honorary D.Sc. degree from his alma mater and 20 years after having come to Wisconsin as an instructor that, as announced earlier in the school year, he will be leaving Madison to take up his duties in Stanford University as head of the Department of Chemistry and Chemical Engineering there. He was honored by his former students at a reunion dinner—with preprandial beverages—at the time of the Atlantic City meeting of the ACS last September. An anonymous rhymester, obviously motivated by the observa-

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Re: The Faculty--

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tion of others that the "cream of the Midwest is extracted by ethereal overtures from the coastal states", at that time helped add to the pleasantries of the occasion with the following not inappropriate stanza which became a souvenir of the evening's activities.

My name is Bill Yonson,
I came from Visconsin—
I worked on de steroids dere;
De people out Vest
Dey say it's de best,
So I give ol' Visconsin de air.

Prof. E. E. van Tamelen was also an European visitor at summer session's end. His itinerary included a three-week stop in England, a visit to Germany, and lectures in Switzerland. He headed for home after attending the meeting of the International Union of Pure and Applied Chemistry in Munich.

A purely pleasure trip as a winter vacation while on a semester's leave of absence took the S. M. McElvains on a cruise from New York to San Francisco via the Panama Canal at semester's end in January of this year. Before returning to Madison they flew to Honolulu for a four-week stay there. The trip proved to be so delightful and the Honolulu sojourn so restful that they will repeat the Pacific part of the trip in 1960 at the same time as before.

Prof. and Mrs. H. A. Schuette did some traveling during the month of November, 1958, but made North American areas their ports of call by air. Their trip was planned to coincide with their fortieth wedding anniversary. It was an island-hopping adventure: in a sense trailing Columbus in the Caribbean Sea. They made stops in Puerto Rico, St. Croix and St. Thomas in the Virgin Islands, had bird's eye views, followed by brief stops, of St. Kitts, Antigua, Martinique, St. Lucia, Barbados, and Grenada; spent some time in Trinidad; made an overnight stop at Caracas, Venezuela; and spent several days at Willemstad in Caracas, the so-called "eye spot, buy spot" of the Dutch Antilles. Then they moved on to Ciudad-Trujillo in the Dominican Republic; Port-Au-Prince in Haiti, Kingston and Montego Bay in Jamaica, and home via Havana and New Orleans, with a stop over in Winnetka, Ill., for a family Thanksgiving dinner.

This 'n' That About Our Alumni

We have been informed that Malinckrodt's **James H. Ackerman,** Ph.D. '54, now has a Rensselear, N. Y. address with Sterling-Winthrop Research Institute.

The **E. W. Adams,** Ph.D. '24 — he is administrative director of research at Standard Oil (Ind.)—now have eight grandchildren. The sex distribution became equal when the junior Adams' became parents of their first daughter, their fifth child.

Alexander R. Amell, Ph.D. '50, reported last January that their fourth child (their third girl) was born just before Christmas in '58. "We would really like to see any Wisconsin alumni who are up this way", he wrote; and "this way" means the University of New Hampshire in Durham.

Norman L. Anderson, M.S. '39, is research group leader with National Aniline Division of Allied Chemical and Dye.

Karl Anthony, Ph.B. '37, is assistant to the director of personnel at Abbott Laboratories, North Chicago, Ill., an affiliation which began in 1945 upon his completion of almost five years of service as an officer in the Armed Forces. The Anthonys have two daughters. One, a graduate of Illinois State Normal, Bloomington, is a teacher; the other is a high school pupil in her junior year.

American Cyanamid's research chemist, **Sanford M. Aronovic,** Ph.D. '57, brought us up to date last July on his activities since leaving the campus, viz., married a math teacher whose first name is Gilda; became the father of Daniel Edward some nine months ago at that time; the family now occupies their new house whose rooms they hope to fill "both with guests and offspring".

We have learned that **Robert M. Aude,** B.S. '39, has been promoted to vice-president and general manager of the Heyden Chemical Division of Heyden Newport Chemical Corporation, New York. The twenty years since his graduation have been devoted almost entirely to production and sales activities: with Monsanto first in Massachusetts and then in Ohio, and since 1953, with his present employer. The Audes, at last report, had four children. The family is living in Allendale, New Jersey.

Gilbert H. Ayres, Ph.D. '30, is teaching both undergraduate and graduate work in analytical chemistry at the University of Texas in Austin. His appointment as graduate adviser in the Chemistry Department dates from last fall. We understand that the Department's graduate student group numbers some 160 and that annually 25 to 35 Ph.D.'s are "turned out".

George D. Beaty, B.S. '50, is employed by the Ambrosia Chocolate Company, Milwaukee.

Richfield Oil Corporation's assistant to its vice-president, **Fred B. Behrens,** B.S. '28, explained the presence of his name on last year's "Addresses Wanted" list as apparently due to changing jobs, a foreign assignment, and "the usual hustle". The Behrens' home address is 555 S. Flower, Los Angeles.

John W. Berge, Ph.D. '59, brought his research problem to a close at summer session's end in '58; filed his thesis in the library upon its acceptance; took off for Europe with his wife early in September for a two-month's tour during which they visited six or more countries; passed his final examination, the "defense

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Lawrence F. Dahl

Assistant Professor

The rise of Dr. Dahl from instructor to assistant professor came about just two years after he had joined the faculty. An alumnus of the University of Louisville, B.S. '51, he took up graduate work in physical chemistry at Iowa State University under the direction of Prof. R. E. Rundle. His research problem dealt with the structural chemistry of metal carbonyls. The doctorate was conferred upon him in 1956. The following academic year found him serving as a post-doctoral fellow at the Atomic Energy Commission's laboratory on the Ames, Iowa campus. This is also the year in which he married June Lomnes, a physical chemistry major who won her Ph.D. degree that year. She is now a project associate in pharmacology at the McArdle Cancer Research Laboratory.

Dr. Dahl is a member of the organic group at Wisconsin. His research interests are concerned with the structural studies of organometallics, metal chelates, and inorganic compounds, by means of X-ray diffraction and spectroscopy.

This 'n' That--

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of the thesis"; and left Madison for Wilmington, Del., where he is now a DuPonter. The Berges made their first contribution to the crib-age segment of our population on August 1 of this year, and added the eighth grandchild to the family tree of the senior Berges. Mr. Berge is the executive director of the Wisconsin Alumni Association.

Robert C. Bertelson, B.S. '52, was called to service by the Armed Forces early this year. His post: Aberdeen Proving Ground, Md.

We have learned that **Warren R. Biggerstaff,** Ph.D. '48, has been promoted to the rank of professor at Fresno College.

Hans J. Borchardt, Ph.D. '56, is a member of General Electric's research personnel; his field of concentration: solid state chemistry.

Beloit College conferred the honorary doctor of science degree at Homecoming convocation last Fall upon two of its chemistry alumni. One of them is Professor Emeritus **Paul W. Boutwell,** M.A. '12, Ph.D. (Ag. Chem.) '16. Dr. Boutwell is now serving Dell Food Specialties Company as director of research and development.

It is not our practice to comb the literature of the past for information on our chemistry alumni but when an event that occurred in the gas-mantle age of illumination fifty years ago was retold last January in the "Looking Backward" column of a Madison newspaper, that's something else again. The item in question concerns a senior who had obviously done a superior piece of work on her thesis: A new method for separating the rare earths. The story: "Ella M. Wyman, Viroqua, co-ed at U.W., works out 'wonderful' method of obtaining rare earths in chemistry class which department heads say will be of great value to science". Miss Wyman, B.A. '09, married teaching assistant **Robert K. Brewer,** M.A. '09, M.D. (Syracuse) '13. Widowed in 1945, Mrs. Brewer is a three-time grandmother and continues to make her home in Syracuse where she is near to her grandchildren. Her son David followed in his father's footsteps. He is a busy practitioner and is, besides, an associate professor in Syracuse College of Medicine.

Aubrey E. Broderick, Ph.D. '28, has completed over 25 years of service in the research and development department of Union Carbide Chemicals Co., a subsidiary of Un-

(continued in col. 3)

IN MEMORIAM

JAMES BELLEZZA, Jr., Ph.D. 1939, Du Pont employee since 1939, —in Wilmington, Delaware, August 30, 1959.

MYNARD W. BESSERT, B.S. '32, food technologist with Oscar Mayer and Company, and member of the Food Acceptance Committee of the American Meat Institute—in Madison, Wisconsin, December 16, 1957.

HAROLD R. BRAYTON, B.A. 1914, member of faculty of Texas A. & M. College—in College Station, January 10, 1957.

LEE K. HENKE, the Department's first mechanician, active until 1949 when he retired because of poor health—in Madison, October 6, 1959, after a long illness.

DONALD A. KRUMMEL, B.S. 1950, Glidden Company employee—April 21, 1956, in Veterans Hospital, Wood, Wisconsin.

ALONZO S. McDANIEL, Ph.D. 1909, instructor in chemistry, 1906-1909, consulting chemist and patent attorney — in Washington, D. C., April 19, 1957.

WALTER NEBEL, Ph.D. 1917, member of the first class to graduate from the chemistry course, successively teaching assistant, instructor and assistant professor 1909-1919, retired Du Pont employee, 1951—in Wilmington, Delaware, July 16, 1955.

ROSCOE F. PATT, 1915, active to the last upon recovery from a severe heart attack in 1955, a research chemist with Hanf, Bick and Company, of Reading, Pa.—January 19, 1958.

OTTO C. ROEHLING, B.S. 1912, brother of the late Herman, B.S. 1910—March, 1958, in Oxford, New York.

EMIL G. SCHMIDT, B.S. 1921, professor and head of the Department of Biochemistry, School of Medicine, University of Maryland—in Baltimore, September 25, 1958.

JOHN C. TREACY, Ph.D. 1953, victim of a laboratory accident caused by an explosion of a rocket fuel—in South Bend, Indiana, March 31, 1955.

GERSHEN WINESTOCK, Ph.D. 1955, victim of a turbo-prop plane crash in which 65 persons were killed—in New York, February 3, 1958.

Milwaukee Downer alumna EVELYN NIEDECKEN WALBRIDGE (Mrs. John S.), M.A. 1907, November 26, 1958.

This 'n' That--

(continued from col. 1)

ion Carbide Co. The note which accompanied his contribution to our Badger Chemist fund revealed an obvious enjoyment of his job and his high respect for his employer.

Physical chemist **George V. Browning,** Ph.D. '49, is a staff member of the Materials and Process Laboratory (turbine division), General Electric Co., Schenectady.

George M. Buffett, Ph.D. '33, was on the campus late in April as "visiting hireman" for Pittsburgh Plate Glass. We learned from him at that time that his daughter, an Oberlin graduate and some-time graduate student in Scandinavian Seminar, Denmark, was then enrolled in Michigan's Library School as a candidate for the M.S. degree in library science. The Buffetts' son is an Oberlin undergraduate.

Donald B. Cameron, Ph.D. '53, has been promoted to research supervisor at Du Pont's polychemicals department in their Experimental Station. He is married to **Traute Baude,** B.S. '51, and that makes the Camerons one of the few husband-wife teams on our Badger Chemist mailing list.

We have learned that **Robert S. H. Chiang,** Ph.D. '53, severed his connections with Hercules Powder early in October. He is now at Mellon Institute working on a Chemstrand-sponsored project.

David H. and Carol **Clemens,** Ph.D. '57, announced the birth of Paula Ruth on December 25, 1958.

LaVerne E. Clifcorn, Ph.D. '34, informed us last July that he was starting a new research organization for National Can Corporation, and that his daughter was on her way to become a Wisconsin alumna, via the School of Education. "Great thrill for many of us from old Ag. Chem. to see 'Conny' Elvehjem president," wrote Clif.

At last report **Sheldon H. Cohen,** B.S. '56, was a graduate student at the University of Kansas, pursuing studies for the doctorate.

We have learned that **Lloyd M. Cooke,** B.S. '37, Ph.D. (Montreal) '41, has been made assistant director of research at Visking Company.

Francis B. Coon, B.S. '51, heads the chemical department of WARF's (Wisconsin Alumni Research Foundation) laboratory.

Randall, the science-minded son of **Milford A. Cowley,** Ph.D. '33, and an active member last year of the LaCrosse High School Science Club —it is one of the many such clubs

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This 'n' That--

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comprising the Wisconsin Junior Academy of Science—has enrolled in the University.

Announcement was made in April 1958 of the marriage of **Michael J. Curry,** Ph.D. '48, and Susan Niles. They are living in Summit, N. J. He is laboratory manager at Celanese Corporation of America and Mrs. Curry, a chemist, is in market research at Carbide and Carbon in New York.

Howard I. Cramer, Ph.D. '29, is now director, technical liasion, at Pennsalt Chemicals Corporation, Philadelphia.

We have learned from **Guido H. Daub,** Ph.D. '49, who is now director of the graduate center of the University of New Mexico and professor of chemistry, that **Martin D. Barnett,** M.S. '55, had completed his work for the Ph.D. under his direction. Dr. Barnett spent his first year after graduation at the University of Florida in post-doctoral work in its chemistry department.

M. Carl Denison, M.A. '29, is a research chemist at DuPont's nylon plant in Chattanooga, Tenn. The Denisons have a Signal Mountain address: 918 James Boulevard.

M.I.T. retiree **J. Gerhard Dietrichson,** Ph.D. '14, was one of several Badger Chemists to have received certificates last spring for fifty years of continuous membership in the American Chemical Society. Other Wisconsin alumni similarly honored at that time were **David Klein,** Ph.D. '10, **J. Howard Mathews,** B.S. '03, Ph.D. (Harvard) '08, and **Harry Steenbock,** Ph.D. '16.

Ye editor met up with **Fred F. Diwoky,** Ph.D. '30, at the Wisconsin luncheon during the September meeting of the ACS in 1958 and learned that he had been transferred from Brownsville, Texas, to the Chicago office of Amoco Chemicals Corporation. He is now assistant to the vice-president, engineering.

When Kenyon College conferred upon Wayne State University's professor **Carl J. Djerassi,** Ph.D. '46, the D.Sc. degree last year, it gave recognition to one of its alumni for his scientific achievements in organic chemistry and, on the Wisconsin scene, won for him a place on the list of Badger Chemists—it is not a large but a choice one—to have received one or more honorary degrees from other schools. Already the recipient of an A.C.S. award in pure chemistry (1958), Dr. Djerassi last January received the 1959 Baekeland Award of the North Jersey Section, for his work on steroids, the results of which provides important steps in the synthesis of corticosteroids and estrogenic hormones. He was a campus visitor on June 25, 1958 when he was a featured speaker at the Sixth National Medicinal Chemistry Symposium presented before the School of Pharmacy under the auspices of the Division of Medicinal Chemistry of the A.C.S.

Robert C. Doban, Ph.D. '52, was a campus visitor early last April at which time he told us of his transfer by Du Pont to Parkersburg, W. Va., where a new plant for making Teflor resins is under construction. He is, at this writing, in charge

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Farrington Daniels

Professor Emeritus

Retirement at age 70 on June 30 of this year marked the end of Doctor Daniels' 39-year affiliation with our University during which time he rendered distinguished service as a teacher, as a research worker, and, since 1953, as an administrator. His retirement from the University does not remove him from the campus. On July 1 an office in the Solar Energy Laboratory was awaiting him and there he was soon at work directing a Rockefeller Foundation-sponsored research project on solar energy, the star to which, several years ago, he had hitched his post-retirement program. His decision to concentrate on this subject stems from a growing belief that the abundant energy of the sun can be harnessed to perform a useful role in our world.

His whole career since coming to Wisconsin is studded with recognitions of various kinds given him, awards, and invitations to lecture, or participate in symposia, before domestic as well as foreign audiences. His years of service to the American Chemical Society which, beginning at the local level, soon reached up into the national scene, were climaxed in 1953 by election to the presidency. Doctor Daniels' travels in meeting lecture engagements in this country and abroad—Canada, Mexico, Cuba, the Scandinavian countries, Britain, France, Germany, Switzerland, Italy, Holland, India, Thailand, Japan—add up to an impressive total mileage, a record not equalled by any other member of the departmental staff.

Prized honors that have been accorded him are the Minnesota Outstanding Achievement award from his alma mater (B.S. '10), the Priestly Award, with gold medal, of the ACS, the Willard Gibbs medal of the Chicago Section, ACS, and the James Flack Norris Award of the Northeastern Section, ACS, in 1957. And as recently as this fall he was one of 44 members of the American Nuclear Society named fellows for their scientific and engineering attainments. The University of Rhode Island conferred the honorary D.Sc. degree upon him in 1953 and the University of Minnesota welcomed him back to her campus last June to receive as one of her illustrious native sons, the same degree.

Dean Spilhaus on presenting Farrington Daniels to President Morrill for the University's honorary degree, Doctor of Science, said:

"Native of Minneapolis, graduate of the University of Minnesota with the degrees of Bachelor of Science and Master of Science, and of Harvard University where he received the degree of Doctor of Philosophy, he is known the whole world over as an outstanding teacher and research chemist of his generation; during the stress and conflict of two world wars he applied himself and his scholarly talents in the defense of the nation; for three decades his scientific acumen and administrative capabilities have nurtured and enhanced the academic distinction and prestige of the Department of Chemistry at the University of Wisconsin; held in highest esteem by his colleagues in science, he has been signally honored as recipient of the Priestly and Willard Gibbs medals in recognition of his distinguished achievements in the field of chemistry."

The citation by President Morrill:

"Because your early pioneering studies in chemical kinetics, and your lifelong research pertaining to the utilization of all forms of energy, have enabled people around the globe to better their standards of living and to improve their lot in life; and because your own rich life is a heartening example of the rewards and satisfactions that can be derived from an academic career in teaching and research, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Farrington Daniels, the degree of Doctor of Science, HONORIS CAUSA, with all the rights and privileges pertaining to that degree."

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of a research group busy there with chemical studies on new fluorocarbon plastics.

B. P. Domogolla, B.S. '22, wrote from Bogota, Colombia, last December, that he had been there since early October busy on his many chemical treatment projects in South America and, at the moment, was trying to spread pre-Christmas cheer among the natives.

Our thanks go to Forest Products Laboratory chemistry and two-time grandfather **Leslie E. Downs,** M.S. '32, for assistance in the removal of the name of **Stanley Frederick Rust,** M.S. '34, from our last published list of addresses wanted. Native Australian Rust is now director of research for Laminex Corporation, Melbourne, Victoria. The Downs' Jon David is a Wisconsin alumnus, M.D. '57. He is on duty as a medical officer at Camp Pendleton in the San Diego area.

The big news at North Dakota Agricultural College during February of last year was the selection of **Ralph E. Dunbar,** Ph.D. '33, for the second annual Faculty Lectureship. Dr. Dunbar, dean of the School of Chemical Technology since 1945, a past president of the North Dakota Academy of Science and a past chairman of the Red River Valley Section of A.C.S., took for his subject "Research or ?".

Wm. D. Ehman, B.S. '52, is now assistant professor at the University of Kentucky; from Argonne National Laboratory.

Greensboro College alumna **Erica Enzer,** M.S. '50, is science editor for American People's Encyclopedia. Her address: 5335 Woodlawn, Chicago 15.

We have just learned that St. Olaf College has another Badger Chemist on its staff: assistant professor **Luther E. Erickson,** Ph.D. '59.

California Research Corporation's **Dorr Etzler,** B.S. '35, informed us last November that their daughter was in her second year at the University of Oregon and that their son was a sophomore in high school. The Etzlers have a Lafayette, Calif., address. (Thanks for the "orchid", Dorr—Ed.)

Northwestern alumnus **James B. Evans,** Ph.D. '51, has been a member of the faculty of the University of Colorado since 1957. His field of concentration is radiochemistry; his extra-curricular activity, lectures on the nature of fallout and the detection of radioactivity in food and water.

Joseph Farber, Ph.D. '51, is now manager of the Aerophysics Laboratory, missile and ordnance systems, at General Electric.

Allen H. Filby, B.S. '48, is assistant supervisor at Ethyl Corporation, Detroit. He is married to the former Mary Lee Sharpe, B.S. (H.Ec.) '48. The Filbys have three children.

We have learned from **Sallie A. Fisher,** Ph.D. '47, that she still maintains an active interest in local Democratic politics; that her services to the community continue to be centered on the Lower Bucks County Joint Municipal Authority which furnishes water and sewage disposal to the Leavittown area; and that she takes shameless pride in the fact—she spent two years handling the publicity for the movement—that last spring saw the addition of fluoride to the water supply there. She wrote, "I am convinced that time spent talking before women's clubs pays off in such a venture".

The University of Southern California conferred the Ph.D. degree upon **James K. Fogo,** B.S. '40, in 1954. We have learned that Jim has been advanced by Union Oil Company to a research associateship at its research center in Brea.

Edmund M. Fitchett, B.S. '24, is a two-time grandfather. He is chief chemist at Ray-O-Vac Co., Division of Electric Storage Battery, Madison.

Announcement was made on Nov. 23, 1958 of the marriage in Pittsburgh, Pa., of Tibie Slifkin and U. S. Steel's research chemist, **Robert P. Frankenthal,** Ph.D. '56.

Dartmouth alumni (A.B. '36) **Robert L. Frank,** Ph.D. '40, began his graduate work at Wisconsin in 1939 as a research assistant to the late Prof. Homer Adkins. On acquiring the doctorate, he began his professional career at Illinois where he remained until 1950 when he resigned his assistant professorship for a position in industry, as research director with the Edwal Laboratories. His next move was to the research laboratory of Morton Salt Company of Woodstock, Illinois where he is now vice-president, research. The family lives in Lake Geneva, Wisconsin, from where Dr. Frank commutes to work. On his staff are several Badger chemists.

The Freeman Chemical Corporation, of which **Stephen E. Freeman,** Ph.D. '35, is president, is following its rapid growth pattern which began some eleven years ago in Saukville, Wis., with the manufacture of alkyd resins, varnishes, and allied products. On July 1, 1958, it merged with H. H. Robertson Company of Pittsburgh and Ambridge, Penn.; and by this union expanded its products line by the addition of Stypol polyester resins,

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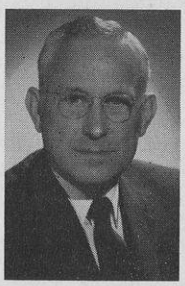
James M. Sprague

Director of Medicinal Chemistry



James M. Sprague, Ph.D. '34, is one of two Wisconsin graduates on the scientific staff in the research laboratories of Merck Sharp & Dohme in West Point, Pa. who this year received an award from their employer for meritorious and distinguished services rendered the company. The award consists of a scroll which cites the achievements of the person honored and a grant of funds to one or more educational institutions to support appropriate educational activities in the scientist's name. In honor of Jim the board of directors of the Scientific Award of Merck & Company appropriated $25,000, two-fifths of which has been given to his first alma mater, Franklin College in Indiana, to set up the James M. Sprague Science Award which will provide financial assistance to exceptionally able students in the natural sciences. Our University is the beneficiary of the rest. The money will implement the Sprague visiting lectureship in organic chemistry.

Besides contributing to the development of important sulfa drugs, he and his colleague headed scientific teams which synthesized a compound—it goes under the trade name of Diuril—which is said to be a major medical advance in the treatment of congestive heart failure, high blood pressure, and other disorders of edema.

Jim spent four years at Wisconsin as a teaching assistant in chemistry following his graduation from Franklin, A.B. '30; then, his formal education completed, for three years held a post-doctorate fellowship at Yale. In 1937 he took a position as research chemist with Sharp & Dohme, Inc. Six years later he was made director of organic chemistry; in 1950 promotion to the assistant directorship of research followed; and, in 1956, when the merger with Merck & Company was made, he reached his present position.

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asphalt compounds and products, and copper powder. The merger has provided Freeman Chemical with another manufacturing plant, an enlarged sales staff, and more research and development personnel. Its general ofices will be maintained at Port Washington.

Sidney J. French, Ph.D. '28, wrote us at last year's end that he had taken up new duties—he had severed his connections with Rollins College—as dean of the Basic College and director of institutional research of the University of South Florida, Tampa. At the time of his writing an expansion of Florida's facilities in the field of higher education was still in the planning stage; of this project he wrote: "This is an unusual University at the moment. It has no faculty, no students, no alumni, no parents, no football, and no buildings. Due to the tremendous population growth in Florida, the State has authorized the new State University in the Tampa Bay area. We have a new campus of 1,700 acres; construction is now starting on the first of five buildings to be ready in September 1960. We will open at that time with a freshman class (and only freshman) of 1500 or more. It is anticipated that in ten years the University of South Florida will enroll 10,000 or more students."

David Freud, M.S. '59, spent a year in the Department after he had acquired his undergraduate degree at Drexel Institute. If his plans as of last summer have not miscarried, he is now pursuing graduate work in the University's School of Journalism with science writing as his objective.

We have learned that **Henry J. Gates,** Ph.D. '56, after having taught for a short while at Milton College and then at Platteville State Teachers, has left the Wisconsin field of higher education for Utica, New York, where he is on the staff of Utica College of Syracuse University.

Paul K. Glasoe, Ph.D. '38, on leave from his post at Wittenberg College, Wittenberg, Ohio, spent the academic year 1958-59 at Cornell on a science faculty fellowship.

Rice Institute alumnus, B.A. '54, **Wm. G. Givens, Jr.,** Ph.D. '59, has joined the academic fold as assistant professor at Norwich University, Northfield, Vt.

After having served the St. Louis Section ACS in various capacities—chairman of its organic group, program chairman, professional activities chairman, councilor—**C. David Gutsche,** Ph.D. '47, was advanced to the chairmanship for 1959. He is one of some six or more Badger chemists whose colleagues have given them this recognition.

Joseph C. Guffy, Ph.D. '47, was a campus visitor on July 3, at which time he addressed the Wisconsin ACS. His subject: Spectroscopic Problems in the Industrial Research Laboratory.

Peter E. Graf, Ph.D. '56, is now a research chemist with California Research Corporation. His address: 1110 A Euclid Avenue, Berkeley 8. Others of our Ph.D. alumni there whose names come to mind at this writing are Frederick Bauman, '56, Joe Gully, '47, Stephen W. Nicksic, '52, and Phillip H. Parker, Jr., '56.

Frederick M. Granberg, B.S. '39, now has an Appleton, Wis., address; from Niagara Falls with no change in employer, Kimberly-Clark Corporation.

Elinor M. Hankins, Ph.D. '51, enrolled at Wisconsin with two degrees. B.S. '43, from New Jersey College for Women, and M.S. '46 from University of New York. Her undergraduate record was obviously a superior one; the junior and the senior prize, high honors, and election to Phi Beta Kappa. She spent the school year 1948 during her graduate days at Wisconsin as a teaching assistant in general chemistry. She is now a research chemist at Rohm and Haas Company in Philadelphia.

Walter H. Hartung, Ph.D. '26, writing from his new Richmond, Va., address, has recently informed us that his three boys are now married and that, collectively, they have enlarged the family circle by five grandchildren. Homer, who is employed by C and C in its silicones division, earned his Ph.D. degree in physical chemistry at the University of North Carolina; Richard is pursuing graduate work in physics at Michigan; and Victor

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Arthur C. Cope

President-elect, ACS

As we go to press we learn that a Badger chemist has been named President-Elect of the American Chemical Society for 1960. And, if our memory serves, this is the first time that a Wisconsin-trained chemist has been selected to become the titular head of the Society. He will take office as president on January 1, 1961.

Butler University alumnus (B.S. 1929) **Arthur C. Cope,** Ph.D. '32, came to the Department in 1929 as a teaching assistant and left it upon graduation after having served for a year as a fellow. A two-year National Research Council Fellowship at Harvard led to an appointment at Bryn Mawr where he reached associate professor rank in 1938. Columbia University invited him to join its faculty in 1941, which he did without change in rank. He taught there until 1944, and in addition to his duties served as technical aide and section chief, Division of Chemistry, National Defense Research Committee, from 1942 to 1945. He has been head of the Chemistry Department, Massachusetts Institute of Technology, since the latter date.

Badger chemist Cope has had a long and active career with the ACS. It began when he joined the Society in 1930. He served as councilor of the New York Section from 1944 to 1945; as chairman of the Northesatern Section in 1955; and as chairman of the Division of Organic Chemistry in 1946. He recently completed eight years of service as a regional director of the Society's Board of Directors, of which he is now chairman and, ex officio, head of its Executive Committee, of which he became a member in 1954. As chairman of the Board Committee on Publications he led his group through several major tasks, including reorganization of Chemical Abstracts into the present CA service. His talents as an executive have been recognized also by his appointment to various committees such as Finance, Awards and Recognitions, CA Housing, Advisory to the Chemical Corps, Liason with the Department of Defense, Nominations and Elections, Professional Training, and Professional Regulations. He is on the advisory board of the Journal of the American Chemical Society and is a past advisor to the Journal of Organic Chemistry.

Honors and awards have come his way also: a Guggenheim Memorial Foundation Fellowship in 1940, Columbia University's Charles Frederick Chandler medal in 1958, election to the National Academy of Science, and last, but not least, the Society's Award in Pure Chemistry in 1944.

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is an officer of the Air National Guard at Madison and is working for a degree in Agriculture at Wisconsin.

Arthur A. Harwood, B.S. '23, on graduation from the Chemistry Course, remained on the grounds but moved over to the Pharmacy quarters to do graduate work under the late Prof. Edward Kremers. He is now holding a professorship of pharmaceutical chemistry at Purdue.

Armin W. Helz, B.S. '30, Chemistry Course, was a campus visitor at month's end last August with his son and two daughters. As is the case with many parents, the question of where to send their high school son after graduation—college or university—was apparently a motivating force in the trip from their home base in Gaithersburg, Md., to Madison. The senior Helz is a physicist who made chemistry the background for his career. And that career, after he left the Wisconsin scene, can be summarized as follows: degrees earned at Michigan College of Mining and Technology, M.S. '31, University of Michigan, A.M. '36, and Rutgers University, Ph.D. '38, in physics; university affiliations at Rutgers as research engineer Ed. Orton, Jr. Ceramic Foundation and assistant professor of ceramics, 1939-41, and Johns Hopkins, senior physicist, applied physics laboratory, 1947-49; federal service, in Bureau of Standards as research associate, 1941-47, and U. S. Geological Survey, Geochemical and Petrological Branch, 1949 to date. His research interest lies in the fields of spectroscopy, ceramics, and calorimetry.

The name **Helfaer** appears twice on the Department's list of 1920 Chemistry Course graduates: brothers **Bertram M.** and **Evan P.** Bertram is assistant director of research and development at National Aniline Division of Allied Chemical and Dye Corporation. Evan is president of Lakeside Laboratories, Milwaukee, a manufacturer of ethical pharmaceuticals. His is an interesting success story of the kind in which the main actor turns setbacks into triumphs. It begins with a freshman journalism student who switched to chemistry and, on graduation, joined the scientific personnel of a Carrollville, Wis., dye manufacturer. Hospitalized a few years later because of injuries received in a laboratory explosion, and convinced—for the time being—that chemistry was not in his line, he decided to get out on his own; and, on borrowed capital, went into the business of building apartments, stores, and houses. It was a profitable venture until the collapse of the business boom of the late twenties changed all that. In the early thirties the death of a friend, Chemistry Course graduate **Herman Roehling,** '10, set the stage for his return to the chemical field; this time as an entrepreneur. He bought the meager assets of Roehling's pharmaceutical business, The Lakeside Laboratories, and for a time was selling its products by personal contacts, from Wisconsin to Florida. Under his management the company has moved three times since the days of its attic-floor quarters of an old residence: to a garage, to a one-time chocolate factory, and finally to a former automobile showroom which has since been enlarged and extensively remodeled. A research program which the company has followed under his guidance appears to have paid off well in terms of total sales—$12,000 the first year to a 560-fold increase last year—and number of employees which now stands at some 350. And all of this came about because a young journalism student, on doing a bit of soul-searching, decided that the life of a reporter was not for him. That he found his metier in chemistry is no understatement.

As we go to press, we have learned of the pending sale of Lakeside to the Colgate-Palmolive Co. Under the plan, Lakeside will operate as a wholly owned subsidiary of Colgate and Evan will become chairman of the board of the new subsidiary.

Richfield Oil's **Fred B. Behrens,** B.S. '28, loaned his copy of last year's newsletter to a colleague, **Eugene C. Herthel,** B.S. (Ch.E.), '15, who expressed his appreciation by a voluntary contribution to help in the perpetuation of Badger Chemist.

We have learned that **Eugene L. Hess,** Ph.D. '48, who was last reported (Newsletter 5) as being on the staff of the Rheumatic Fever Institute, is now with the Worcester (Mass.) Foundation for Experimental Biology.

Erwin N. Hiebert, Ph.D. '54, of the University's History of Science department, was a summer traveler abroad. He served as historian for Project Lake Ice, Inc., near the Arctic Circle and, this study completed, went on to Europe for the International Congress of the History of Science.

Three Badger chemists have been installed in key positions in the Wisconsin Section, ACS. **Takeru Higuchi,** Ph.D. '43, is chairman, chairman-elect is **Edwin M. Larsen,** B.S. '37, and **Louis J. Gosting,** Ph.D. '48, is secretary-treasurer.

Takeru Higuchi addressed the Iowa Section ACS on the subject of the kinetics and mechanisms of the deterioration of drugs. The date: Jan. 14, 1959.

Two-time alumnus **George T. Hildahl,** B.S. '50, M.S. '56, has a South Minneapolis address. Is he a 3M research chemist?

The promotion of **Ralph M. Hill,** Ph.D. '38, to a senior research associateship, because of outstanding work, was announced last December by Esso Research and Engineering Co. In that capacity Ralph is head of chemicals information in the firm's technical division. We understand that his son, Ralph David, sometime Ford Foundation

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William R. Rinelli

Industrial Chemist

Exactly 24 years after he had joined Marinette's Ansul Chemical Company as a research chemist, Chemistry Course graduate William R. Rinelli, B.S. '33, was made general manager of its chemical products division. The first milestone in his rise to his present position was his appointment in 1952 as assistant to the vice-president of sales and then an assistant director of research and development. Most recently he has been made co-ordinator of product planning for Ansul. In his new position he is responsible to the Company's president for the profitability of all of its chemical products. Among them are sulfur dioxide, methyl chloride, glycol ethers, sodium bisulfate and a score of chemicals used as solvents, arsenicals, and pharmaceuticals.

Bill holds some five patents on various methods and products pertaining to certain chemical phases of refrigeration. His name appears in volume three of Encyclopedia of Chemical Technology as joint author of a discussion on methyl chloride, its chemistry, properties, manufacture, handling, economic aspects, etc. He is author, also, of some half-dozen articles on refrigeration, and a member of the ACS and the American Society of Refrigeration Engineers.

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scholar during his freshman year at Wisconsin, is a student in a technical college in London and that, by competitive examination, has been accepted for further study in Kings College, in physics.

The small group of Badger Chemists living in Bombay, India, within the past year has been increased by the transfer of **Roger A. Hoffman,** B.S. '39, to that city. He may be addressed in the care of Merck, Sharpe and Dohme India (Private) Ltd., P.O. Box 1008, Bombay 1.

W. Floyd Holbrook, B.S. '20—he is with the U. S. Bureau of Mines in Albany, Ore. — has achieved grandparent status. It's a granddaughter in Ashland, Ore.

Du Pont's **Harrison H. Holmes,** Ph.D. '34, was a Madison visitor on May 22. The occasion: the promotion-to-emeritus dinner for Professor Daniels, his former major professor.

As we go to press we learn that **Kenneth H. Hoover,** B.A. '21, director of research, has been elected a vice president of the R. J. Reynolds Tobacco Company, Winston-Salem, N. C.

Reed A. Howald, Ph.D. '55, has been promoted from instructor to assistant professor of chemistry at Harvard.

Toni Company's director of research laboratories, **Ray C. Houtz,** Ph.D. '32, has informed us that all three of his children are now college graduates, two are engineers and one is a Spanish major. Oberlin and Northwestern claim them as alumni. One of his sons raised his parents to grandparent status in April of this year. His name: Michael Roy.

Forest Products Laboratory retiree **C. C. Hrubesky,** M.S. '24, has now a Mountain Center, Box 75, California, address.

Retiree **W. S. Hubbard,** Ph.D. '12, writing in a nostalgic vein, recalled that it was 49 years ago last year that he entered Wisconsin on a fellowship at a time when only one was available. (Last year there were some 20! Ed.)

American Cyanamid Company has announced the appointment of Carroll College alumnus (B.A. '38) **Hugh M. Hulburt,** Ph.D. '42, as director of physical research for the central research division at its Stamford (Conn.) Laboratories. He joined Cyanamid in 1951 with its subsidiary, Chemical Construction Corporation, where he became director of research. Five years later he was assigned to his present location and become director of the chemical engineering department in 1958. The interlude between the time of his departure from the campus and his affiliation with his present employer was given over to a one-year NSF fellowship at Princeton, a research position with Shell Oil, an instructorship at Hunter College, and an assistant professorship at Catholic University. He is an active member of the Calvary Baptist Church of Yonkers, N. Y., and chairman of its Board of Deacons.

Announcement was made last July by the University's Extension Division of the appointment of **Mary E. Hunt** (Mrs. T. Dwight), M.A. '33, as adviser to correspondence study students. A native of Ottawa, Ill., Mary is an alumna of Marion College (Indiana) where she majored in mathematics and chemistry. Widowed with two small children to raise and educate when her husband became a casualty of war, she has been living in Madison since 1940; and her community services there have been many. They include some 20 years of Girl Scout work, committee work at Christ Presbyterian Church where the father of her late husband was pastor. For the past 11 years, she has been known to Madisonians as the "Newcomer's Hostess". Her daughter is a student at the University; her son is in high school.

Three years ago **James K. Hunt,** Ph.D. '26, became a Du Pont retiree. His last position before he reached this "transition point" in his 30-year connection with the company was that of technical and educational adviser of its public relations department. He is now education adviser to the Manufacturing Chemists' Association. The Hunt family has two Wisconsin graduates, and both of them were awarded their respective degrees in 1926. Mrs. Hunt, the former Julia Byron of Calhoun, Ga., holds an M.A. degree in English. We un-

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At Long Last: A Kahlenberg Memorial

Twelve names of faculty members and personalities of the University were given to housing units in the new residence halls on Elm Drive which were formally dedicated in April of this year. One of these was named for the late Professor Louis Kahlenberg (1870-1941), B.S. '92, M.S. '93, Ph.D. (Leipzig) '95. Doctor Kahlenberg was the first Badger chemist to have been awarded a research fellowship, the first alumnus of the Department to have been elected to the presidency of both the Wisconsin Academy of Sciences, Arts, and Letters, and the Electrochemical Society, and to have served a term as chairman of the Chemistry Section of the American Association for the Advancement of Science, and the first staff member, some sixty years ago, to have directed the graduate work of the Department's first successful candidate for the doctorate. He was one of the incorporators of the University Club in 1907, and had set up the Chemistry Course which is now in its fifty-first year, and became its first director.

His return to the campus—via a one-year instructorship in pharmaceutical technique and physical chemistry in the School of Pharmacy—upon completion of his doctoral studies in Europe marked a milestone in the growth of the Department in that the research program which he inaugurated in his own laboratory is generally deemed to have been the foundation for the present highly specialized activities in this field. Wisconsin's reputation as an institution for graduate study in chemistry stems from the days of Kahlenberg. The hundreds of master's and Ph.D. graduates who have been trained in the Department may proudly claim him as one of their spiritual fathers.

It has been said of him that his self-confidence, his joyful bucaneering spirit which no doubt sustained him in his battles with the high priests of orthodox solution theory, his tricks of emphasis, his booming voice and German accent, his quaint philippics against the use of tobacco, his amusing digression on every conceivable subject, his great talent for making complex phenomena seem simple and mathematical theories ridiculous, all endeared him greatly to many college generations of Freshmen.

The press of the State editorially epitomized his life's work in the statement, "Louis Kahlenberg dying at 71 leaves his name high among those who have made student days an inestimable influence, an unforgettable memory." Yes, few if any teachers at the University have so vividly impressed so many students.

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derstand that she is quite active in AAUW affairs in the "World's Chemical Capital" and that the local chapter of this college group rivals both in numbers and in scope of activities of the ACS section there.

It has recently been brought to our attention that a third name must be added to the list of the Department's graduates (Newsletters 1 and 6) who joined the ranks of the clergy after having prepared themselves for a career in chemistry. For a short time after leaving the campus Waupaca-born **Chandler C. Jackson,** B.S. '48, M.S. '49, was an employee of Sylvania Electric. He then enrolled in Church Divinity School of the Pacific. Now, an ordained Episcopal minister, he has a Riverside, California, address. The Rev. Jackson was a campus minister last mid-August.

Retirement in the case of Chemistry Course graduate **Alfred J. Johnson,** B.S. '16, meant the termination of an almost forty-year affiliation with Du Pont. In that span of time he had, we understand, some experience with practically all classes of dyes and their application to all sorts of fibers and materials. His specialty, however, was the class of thioindigo dyes; and out of these contacts came an invitation to contribute a chapter on indigoid dyes in ACS Monograph 127, "The Chemistry of Synthetic Dyes and Pigments", H. A. Lubs, editor.

Minnesota alumnus (B.A. '49) **Donald R. Johnson,** Ph.D. '54, research chemist in the research and development section of Du Pont's polychemicals department, has recently been promoted to research supervisor. In his new capacity he is directing research on the development of analytical methods in which are involved spectroscopic and chemical techniques, particularly with reference to the application of infrared spectroscopy to plastics. Don is married to the former N. Joyce Perry of Ransomville, N. Y., who has borne him a son, Mark Galen.

The name, **Robert W. Johnson,** provided the newspapers with a believe-it-or-not theme last May because of the unique coincidence which was discovered with respect to it among the more than 170,000 cards in the alumni records office. It is not a case in which the name of an alumnus is merely duplicated; rather one in which duplication began at birth, September 12, 1924, and carried through to the date of their respective M.S. degrees in '49. One of the pair, a

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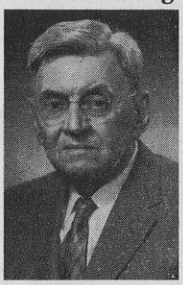
George W. Heise

Outstanding Electrochemist



When the candidates for the degree B.S. (Chemistry Course) were bid rise at our University's fifty-sixth Commencement exercises, two young men came forward to receive their respective diplomas. They made history that June day for theirs was the first class to graduate from the Department's then newly organized course of study. The surviving member of that class is the subject of this sketch.

A summary of the life and activities of Milwaukee-born George W. Heise, B.S. '09, M.S. '12, from his college days at Wisconsin to that stage in man's life conventionally referred to as the retirement age, can be divided into four parts. The first covers his college days which led to a broad interest in electrochemistry under the tutelage of forceful Professor Kahlenberg, and of Engineering College Professors O. P. Watts of corrosion and plating fame, and C. F. Burgess, organizer of the Department of Electrochemistry and already well known for his researches in corrosion, electrolytic iron and a host of allied fields.

The second phase began on graduation when he became an educator and taught, in turn, at Grinnell College, Loyola University, and his alma mater where, after having earned his master's degree, he held a fellowship for a year. Then, in 1913, he left the academic world for an excursion into the field of public service.

The next four years saw him in Manila where he had gone to accept a position in the Philippine Bureau of Science. By the time that he was ready to return to the States, he had acquired the imposing title of Chief of the Section on Weights and Measures, Water Supply and Physical Chemistry, had served for a while as acting chief of the Division of Inorganic Chemistry, and had been commissioned an officer in the Reserve Corps, U.S.A. His return to the campus was short-lived, however, because he was called into active service. Thereafter, throughout the war he served in the Army with the rank of captain, first in the Utilities Department of the Quartermaster's Corps at Camp Grant, Ill., and then in the Chemical Warfare Service at Saltville, Va., where he was in charge of research on projects related to the fixation of nitrogen.

His career as a research chemist began in 1919 when he came out of the Army and took a position with National Carbon Company in Fremont, Ohio. The director of its laboratories at that time was the late Badger chemist R. C. Benner, Ph.D. '09. It was he who gave George his first introduction to the industrial technology of the dry battery. This field has been the backbone, it has been said, although far from the entire substance of his subsequent career. During his 34 years with National Carbon he served as department head for much of the research activity on the dry cell as consultant and as associate director of research. He was largely responsible for the development and commercialization of air-depolarized cells, and made frequent and successful excursions into other battery fields, electro-chemical synthesis, brine cell and porous carbon electrodes, special depolarizers, electrolytic condensers, as well as catalysts and sorbents.

The year 1953 was, in a sense, a "transition point" in his life in that he had then reached National Carbon's mandatory retirement age. But for George it was more a matter of "time for a change" than a rest. He has continued his activities in batteries and allied fields; is a consultant for National Carbon Research Laboratories, Parma, Ohio; is editor of a monograph, now in preparation, on primary batteries; and is serving, as chariman, of the Panel on Primary Batteries of the Committee on Undersea Warfare of the National Research Council. Several honors and recognitions have been bestowed upon him: honorary membership—there are only ten—in The Electrochemical Society which he headed as president in 1947 - 1948; the Certificate of Merit of the Cleveland Chemical Profession; the Citation of Honor of Indiana Technical College as one of the 100 midwestern leaders in science, engineering and industry. And last, but not the least of them, is the Edward Goodrich Acheson Medal of The Electrochemical Society which was awarded him in 1954 for "conspicuous contribution to the advancement of any of the objects, purposes or activities" of the Society. In doing so the Society paid a well deserved high honor to Badger chemist Heise.

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geologist, was born in Staunton, Va. Badger chemist Johnson is a Milwaukeean by birth. He got his B.S. in '47 and is on the staff of the AEC laboratory in Oak Ridge, Tenn.

Thos. O. Jones, Ph.D. '37, is now Science Program Director, International Science Program for the National Science Foundation.

Madison-born Harvard alumnus (A.B. '39) **Richard E. Juday,** Ph.D. '43, spent some eight years after graduation in industry as a research chemist. In 1949 he joined the faculty of Montana State University in Missoula as assistant professor. Promotion to associate professor came in 1953. He is now a professor of chemistry.

Claude I. Judd, Ph.D. '57, has a new address: Lakeside Laboratories, Milwaukee; from Midland, Mich.

Some-time teaching assistant, teacher and agriculturist **Roy C. Judd,** Ph.D. '28, retired in 1951 for reasons of health. He is now living in Brownesville, Texas, where he says, there is "no particular age at which one must retire". Because of this situation he did "quite a bit of teaching during the past four years". Dr. Judd is obviously quite proud of the fact that he is a graduate of our University.

Arlie P. Julien, Ph.D. '24, paid us a visiting hireman's visit last March. We learned from him at that time that he is now chief of application research at Allied Chemicals' Solvay Process Division, that one son is an MIT Ph.D. '55 graduate in physical chemistry in the employ of Esso Research and Engineering; and that the other one, after a three-year stint in the U. S. Air Force, is attending a Theological Seminary in Denver.

Lee H. Kalbus, Ph.D. '54, is filling an assistant professorship at Wisconsin State College, Oshkosh.

We are indebted to **Ruth Klinka Kalmbach** (Mrs. S. H.), B.S. '39, on two counts: for helping us locate **Pauline Fedderson Lienitz** (Mrs. S. D.), B.S. '39, who now has a Richmond, Va. address; and for including us in her "Dear Friends" Christmas letter of 1958. And from the latter we learned that Ruth is teaching chemistry at a private boys' school, that her young son is an enthusiastic cub scout, and that her husband is teaching physics at a USN postgraduate school. The Kalmbachs are living in Carmel, Calif.

Word has come from far away India that **J. G. Kane,** Ph.D. '43, is now professor of oil technology at the University of Bombay.

We were delighted to learn that **Fred K. Kawahara,** Ph.D. '48, was among the group of Standard Oil (Ind.) scientists promoted this year to the rank of senior project chemist.

Herman Kerst, Jr., B.S. '32, is associate research leader at Dearborn Chemical Company, Chicago.

Morris L. Kielson, Ph.D. '41, is employed by Monsanto. He has a Dayton 7, Ohio, address.

We have learned that **Ronald R. Krautkramer,** B.S. '59, has taken a position with G. D. Searle and Company, Chicago. He has been assigned to the research laboratories.

Paul K. Kindel, B.S. '56, at last year's end informed us that in September of '59 he would begin his final year of graduate work at Cornell for the Ph.D. in biochemistry.

Tee-Pak's vice-president of plant operations, **Maurice E. Kinsey,** Ph.D. '31, has informed us that his company—it makes the skins for skinless hot dogs—has built a new plant in Danville, Ill., where he is now living. We understand that Maurice visited Madison briefly in the summer of 1957 to show the campus to his family. His comment: "Certainly it has grown but is still a beautiful place." The Kinseys' son John was a graduate student in chemical engineering at North-

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Samuel Lenher

Doctor of Science

When the University invited Samuel Lenher to return to the campus last June to receive an honorary degree it set up a "first" in so far as it affected a Badger chemist; and by that move it made alumnus Lenher the first of its sons with a bachelor's degree in chemistry to be so honored.

Said the chairman of the Honorary Degrees Committee in the citation which he made to President Elvehjem:

"Born in Madison, Samuel Lenher grew to manhood on this campus where, for more than a quarter of a century, his father was a beloved Professor of Chemistry. Graduated here in 1924, he received his Doctor's degree from the University of London two years later, at the precocious age of twenty-one. After post-doctoral studies at the Universities of Berlin and California, he accepted a research position with the Du Pont Company. Progressing rapidly up through various levels of responsibility with that giant corporation, four years ago he achieved the assignment which he now holds—Vice-President in Charge of Research.

"During the past thirty years, Dr. Lenher has had many unusual opportunities all around the world, to observe and study the growth of science and its impact upon mankind. Working in that eerie half-light that illuminates the cutting edge of discovery, he has been carving out a pathway toward the ever-receding horizon of human knowledge. A rare combination of industrialist and scientist, he directs a vast hundred-million-dollar annual research program, expending one-fifth of that huge sum on basic studies which have no defined commercial objectives. He has done much to create a climate conducive to scientific education and thus has made a vital contribution to our national health, prosperity, and safety.

"Dr. Lenher's civic and educational commitments are numerous and diverse; they include two extensive community welfare projects and two major academic foundations. He is an art collector, an omnivorous reader, and an effective citizen of the Republic. He lives by the creed that, 'to leave a vestige of oneself in the development of another is a touch of immortality.' His many friends here at Wisconsin and in his native community rejoice in his meteoric career."

"Mr. President, upon recommendation of the Faculty and by vote of the Regents, I present to you Samuel Lenher to receive the honorary degree, Doctor of Science."

Said President Elvehjem on conferring the degree:

"Samuel Lenher, because your twin careers in science and in industry have brought great credit to Alma Mater; because you are a remarkably articulate and effective champion of scientific education; and because, as a director of the Wisconsin Alumni Research Foundation, you are making freely available to the University your great gifts of heart and mind, I am delighted to welcome you back to your home campus and to confer upon you the honorary degree, Doctor of Science."

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western last year; their daughter is an undergraduate at Grinnell College.

Eugene V. Kleber, Ph.D. '43, is general manager of Research Chemicals, Inc. His address: 11595 Addison St., North Hollywood, Calif.

Francis F. Koblitz, B.S. '52, is with Bjorksten Research Laboratories, as senior staff scientist.

Harold J. Koepsell, B.S. '40, Ph.D. (Bio.) '44, is one of several Badger chemists on the staff of Upjohn Company, Kalamazoo, Michigan.

Truman P. Kohman, Ph.D. '43, has returned to his post at Carnegie Tech after a year's absence on fellowship leave in Germany.

Ripon alumnus **Ellis L. Krause,** M.A. '13, has joined the ranks of the Emeriti of Marietta College. We trust that when he next comes to Madison "to get a smell of the Chemistry Building", that he will find both of the Department's resident elder emeriti in their respective offices.

Wm. F. Krause, Ph.D. '34, informed us last December that he is still with Pure Oil Company although no longer at its Lemont refinery. He has been transferred to the Chicago office where, as a desk chemist, he is working on petrochemical economic and technical studies. The twin sons of the Krauses are upper classmen at Macalester College; one is majoring in chemistry, the other in physics. Will they be graduate students at Wisconsin in about 1960?

Konrad B. Krauskopf, B.A. '31, is one of the thirty new members recently elected to membership in the National Academy of Sciences because of their distinguished and continued achievements in original research. Konrad has earned the Ph.D. degree in two fields: California conferred his first one in 1934 in chemistry, and Stanford, where he had been an acting instructor in physical sciences, geology department, the second one in 1939. In 1950, he was advanced to the rank of professor of geochemistry at Stanford in the School of Mineral Sciences, Department of Geology. His extra-curricular activities include his current association with the United States Geological Survey, which began in 1942; a tour of duty with the U. S. Army, General Headquarters, in Tokyo, '47-'48, as chief of a geography section of the Foreign Economic Committee; and, currently, service as secretary of the Geochemical Society. He spent the year '52-'53 on a Fulbright - Guggenheim fellowship. His research interests: petrology of igneous and metamorphic rocks; physical chemistry of ore solutions; trace elements in sea water and in sedimentary rocks.

I. J. Krchma, B.S. '27, has been a Du Ponter since graduation from Wisconsin. He is assistant director of research, pigments department. His brother, Ludwig C., B.S. '31, is with Socony Mobil Oil Company, Inc., Kansas City 42, Mo.

We were pleased to find the name of **C. J. Krister,** M.S. '37, among the list of 28 members of the American Chemical Society appointed to serve on its publications advisory boards for terms starting in January, 1959. The timing of the notice suggests that he succeeds **Villiers W. Meloche,** Ph.D. '25, whose term on the board expired at year's end.

Glenn M. Kuettel, Ph.D. '33, is with Esso Engineering and Development. He is the husband of the former **Josephine Bassett,** M.A. '30. Wasn't she a finalist among the group of Wisconsin high school pupils competing during the late 20's for a Francis Garvan-sponsored essay contest, and during her year of graduate study a Martha G. Week scholar? The Kuettels have

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J. Vernon Steinle

Research Administrator

From graduate student with part-time teaching duties, to instructor at his alma mater, to an associate professorship at Marquette University; these mile posts mark the three stages in the life of J. Vernon Steinle, B.S. '20, M.S. '21, Ph.D. '23, before he took the step into industry which was to lead him eventually into the executive offices of S. C. Johnson & Son, Inc., of Racine.

Although "JV" has made his own mark in research, his biggest contribution has been in research administration. In 1925 when he joined Johnson Wax, the company had only two other research chemists in its laboratory; and he, making the group a three-some, acquired the unique distinction of being the company's first graduate chemist. Under his leadership, the original three-manned laboratory has grown to an operative division of the company with a personnel list of some 140 employees, over half of whom are chemists, engineers, and biologists. He heads it as research and development vice-president. His climb up the administrative ladder began in 1933 when he was named research director, it continued to the point at which he became research and development director in 1944, and reached its present stage nine years ago.

He and his co-workers have done pioneering work on the science and technology of waxes. They have made important strides in the development of self-polishing floor waxes, liquid furniture waxes, automobile polishes, and wax specialty products. Doctor Steinle started Johnson Wax on its policy of thorough basic research in this field, going beyond the study of the commercial uses of wax. He established experimental plantations, laboratories, and wax-producing plants in Brazil where experimental work is being carried on today to improve the yield and quality of the wax of the carnauba palm. Mexico called on him in 1941 for technical assistance in the recovery of candelilla wax and in Cuba, the following year, he was a key figure in setting up the joint company formed by Johnson Wax and the Cuban American Sugar Company for obtaining wax from sugar cane. The present commercial availability of this wax in a satisfactory, uniform quality is due to the research carried out under his direction.

Doctor Steinle was honored in 1958 by the Milwaukee Section of the American Chemical Society, on the occasion of its 50th anniversary celebration. At that time there was presented to him the first Milwaukee Section Award in recognition of his reputation as one of the nation's foremost wax chemists, and for his outstanding contributions and service to the industry, the profession, and the Section in the Milwaukee area.

In his time he has taken on many civic duties and responsibilities. Among them are a directorship and then the presidency of the Racine Community Chest and the Wisconsin Community Chest and Councils, Inc. He has served, also, on the National Board of Directors of the United Defense Fund, Inc. He is a past chairman and now a life member of Racine's Salvation Army advisory board, and recently has been appointed to the layman's advisory board of St. Mary's Hospital of this city.

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three children, two girls and a boy.

New London (Wis.) - born and two-time Wisconsin graduate **Donald G. Kundiger,** B.S. '38, and Ph.-D. '42, is now associate professor of chemistry at Kansas State College, Manhattan. The interlude between his graduation from college and affiliation as assistant professor with Kansas State in 1945 was marked by an instructorship at Kansas State, and service as research chemist with Rohm and Haas. He has been a consultant for Dow Chemical since 1950 and the beneficiary of grants for his research projects in organic chemistry from the same source. The Kundigers have four children: one son and three daughters who range in ages from eleven to four.

Our last information on **James W. Langston,** Ph.D. '44, is that he has left Du Pont's Grasselli department in Houston, Texas. Is he now director of production for Hoffman - Taff, Inc., Springfield, Mo.?

Richard E. Laramy, M.S. '59, is with Continental Oil Company, Ponca City, Okla. His assignment: research in the analytical section.

We have learned that St. Olaf alumnus (B.A.) **Elmer C. Larsen,** Ph.D. '39, left J. T. Baker Chemical Co., where he was vice-president and technical director, to take over the directorship of Pittsburgh Plate Glass' newly established commercial development department.

The case history of **Gordon R. Leader,** B.S. '37, and his activities since graduation, as revealed by his several changes of address from then to now, show that (1) he earned his Ph.D. '40 at Minnesota, (2) spent a year at the University of Kentucky as a member of its chemistry staff, (3) took a position with Mallinckrodt in St. Louis, (4) was a research chemist at Olin Mathieson Company in Connecticut, (5) is now working for Thiokol Chemical Corporation, Elkton, Md.

The name **Lease** was added to the staff directory of South Carolina Experiment Station of The Clemson Agricultural College in 1938 when **Elmer J.** and his wife, the former **Jane Germer,** took up residence there. They are a husband-wife team of Badger chemists whose college careers are alike. Both are 1931 graduates of the Chemistry Course, both hold the master's degree for graduate work done in the College of Agriculture, and "ditto" for the Ph.D. class of 1935, in biochemistry. Both remained on the campus as industrial fellows in agricultural chemistry until their departure for the South. Elmer has been associated with the Station ever since his arrival there. He reached his present rank as professor of nutrition in 1943.

Robert H. Levin, Ph.D. '41, is assistant director, chemical research, with the Upjohn Company, Kalamazoo, Mich.

Chemistry Course graduate **George W. Lewis, Jr.,** B.S. '41, is a project leader at Climax Molybdenum Company of Michigan. His address: 14410 Woodrow Wilson, Detroit 38.

National Aniline's research chemist, **Charles L. Lind,** B.S. '40, has a Hamburg, N. Y., address.

Wm. D. Lewis, M.S. '47, has left Charles Pfizer and Co., Terre Haute, Ind., and now has a Modesto, Calif., address: 920 Harvard. His employer: Agricultural Research Laboratories.

We removed the name of Chemistry Courseman **Frederick J. Lindstrom,** B.S. '51, from our addresses-wanted file on learning that he holds an assistant professorship in the Department of Chemistry and Geology of Clemson College, S. C. If his progress towards the doctorate has moved according to plan, Iowa State College should now also be numbering him, a two-degree Badger chemist, M.S. '53, among its graduates.

Two Badger chemists were among the nineteen specialists comprising the "faculty" which addressed the registrants attending the short course on the fatty oils annually sponsored by the American Oil Chemists' Society. This year's school was held at the University of Minnesota for a five-day session which began on August 10. Archer-Daniels-Midland's analytical section head, **William E. Link,** Ph.D. '54, was the lead-off speaker; his subject, General Methods of Analysis of Drying Oils. Northern Regional Research Laboratory's chemist, **Herbert J. Dutton,** B.A. '36, Ph.D. (Bio.) '40, followed next day. His subject: Research Methods of Analysis.

LaCrosse Rubber Mill's product and quality control manager, **Joseph J. Liskovec,** B.S. '21, last December completed his eighth year of service on the local school board, the last two as president; and, as a result of a recent re-election, he is on his way to make it ten. He has also served his community for fourteen years to date as a member of the LaCrosse library board of trustees. Also, on the extra-curricular side, he is a member of his employer's arbitration board. He is a three-time grandfather.

What is **David B. Ludlum,** Ph.D. '54, doing now? Is it true that he has left the employ of the Du Ponts? Our last address was Rockville Center, N. Y.

We understand that **Roger H. Lueck,** M.S. '21, American Can Company's vice-president of research and development, has been re-elected a director of Midwest Research Institute. This is an organization of industries which support research, and is dedicated primarily to the development of advanced techniques in the administration of research in an industrial organization.

Those who, some years ago, help-Chemistry-Commerce Course prob-

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Ann Ratcliff Bergen

Chemist-Librarian

A long felt need —and a prayer that some day one of our alumnae trained after graduation in librarianship be assigned to the Department — was filled on school year's opening in September, 1958.

Ann Ratcliff Bergen (Mrs. J. V.) B.S. '57, upon graduation enrolled in the Library School as a Special Librarian Association Fellow. Her M.S. in library science achieved, she took over her duties as librarian. Her undergraduate record was an outstanding one. In her freshman year she was elected to Sigma Epsilon Sigma scholastic sorority, in her senior year was appointed Martha G. Week Scholar, and on graduation was one of that select group of seniors privileged to wear the fourragere on her gown as a mark of distinctive scholarship achievement. Her social sorority is Gamma Phi Beta. Her election to Crucible and Mortar Board suggests the nature, and quality of her "extra curricular" activities while an undergraduate.

Her husband, John Vanderveer Bergen, is pursuing graduate work in pharmaceutical chemistry in the School of Pharmacy. He is a 1956 alumnus of the Philadelphia College of Pharmacy and Science and is a member of Kappa Psi and Rho Chi, pharmaceutical societies.

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ed plan and set up the now defunct ably hardly suspected that any of its graduates would ever make it the background for a medical career — the life of a purchasing agent appeared to be more along their line of thinking. But **Chas. S. Lueth,** '37, did just that via an M.D. degree from George Washington University, 1940. He holds the rank of lieutenant colonel, USAF (MC), and is attached to a hospital at James Connally AFB, Waco, Tex.

Wm. D. Luker, Ph.D. '55, is now a member of the staff of the Mississippi State Chemical Laboratory, Starkville.

Blair MacQueen, M.A. '23, has been re-elected president of the Oconto County Alumni Club. He is serving the Wisconsin Alumni Association also as a committee chairman for the Oconto district in the alumni house campaign. Blair, a business man in his home town, is a past president of the Wisconsin Furniture Association.

Wm. J. Maeck, B.S. '53, may be addressed at 675 Wabash Ave., Idaho Falls, Ida. We understand that he enjoys Idaho very much and that he expects to remain there for a while.

E. M. Magee, Ph.D. '56, is a research chemist with Humble Oil Company, Baytown, Texas.

Howard V. Malmstadt, Ph.D. '50, who is teaching analytical chemistry at Illinois, is now a member of that growing group of Badger chemists who have served, or are serving, the ACS as chairman of a local section; in his case the University of Illinois section.

A growing demand for his products, electric contour heaters for round-bottom flasks, has prompted Carroll alumnus (B.A. '40) **Frederick J. Mathews,** Ph.D. '43, to exchange his teaching role as associate professor of chemistry at Beloit College for that of a businessman. He started his business, Laboratory Craftsman, as a basement hobby. Present performances leave no doubt, we understand, that the home workshop must expand; the "factory" really needs larger quarters for operation.

Bruce N. McBane, M.S. '41, has been associated with Pittsburgh Plate Glass since his departure from the Madison campus on graduation. Currently he is assistant technical director of Ditzler Color Division in Detroit, Mich. Bruce has informed us that the McBane family, as of November 1958. numbered three children; and that is an increase by two since campus days.

We have learned that **Keith S. McCallum, Ph.D.** '50, has been transferred by Rohm & Haas from its Redstone Arsenal laboratory in Huntsville, Ala., to the home base in Philadelphia where he is now a laboratory head.

We understand that **Fred H. McCarron,** Ph.D. '56, has severed his connections with Du Pont. Our mailing list reveals that his last address was Yerkes Research Laboratory, Buffalo 7, N. Y.

College of the City of New York alumnus (B.S. '39) **Theodore H. Meltzer,** M.A. '42. spent about a year in the Biochemistry Department after graduation and then transferred to the University of Chicago for graduate work first on a chemical warfare project, and, after VE day, to one on synthetic rubber. His Ph.D. degree acquired in '47, he made his debut as an industrial chemist with Rohm & Haas, then went over to Thiokol Chemical Company as a group leader in vinyl polymers, and finally to his present employer, the Electric Storage Battery Company, whose organic chemistry division he has been heading since 1955.

John Metschl, Ph.D. '23, is on the staff of Industrial Hygiene Foundation, Pittsburgh. His home address: 295 Evaline, Zone 35.

We informed our readers in the second newsletter that **Fred Meyer,** Ph.D. '41, had set his sights on another degree, in mathematics. If his plans, as announced last December, have not miscarried, he should have achieved his goal last June at Wayne University where he has been teaching and pursuing research.

Illinois alumnus (B.S. '42), sometime assistant in organic chemistry and WARF fellow **Max W. Miller,** Ph.D. '50, and his wife, the former **Virginia Dickmann,** M.S. '49, were living, at last report, in North Stonington, Conn. Wasn't Max a group leader at U. S. Rubber Company in Passaic, N. J., in 1953, and is he now affiliated with Pfizer and Co., in Connecticut?

Professor **Therald Moeller,** Ph.D. '38, of the University of Illinois, has been appointed to NRC's subcommittee on Nomenclature of Inorganic Chemistry.

Case histories of a Badger chemist at his life work and his intra-company rise are rarely made available to us; but here is one taken from a brochure issued by Esso Research and Engineering Company on some of its key personnel which merits wide circulation (we alone have some 2800 readers). **Leonard E. Moody,** assistant director, Products Research Division (University of Wisconsin, Ph.D. in Physical Chemistry, 1944) joined Products Research Division in 1944 as a chemist working on lube oil additives . . . moved over to work on railroad diesel oils . . . back to additives in 1949 . . . made group leader in lube oils . . . to combustion work on fuels . . . made head of combustion project section . . . then assistant director Products Research Division with particular responsibility on lubricants, waxes and additives.

Leo R. Morris, Ph.D. '52, has a research chemist's position at Dow Chemical. Mail will reach him at 3619 Dartmouth Court, Midland, Mich.

General Electric's **Albert L. Myerson, Ph.D.** '49, is manager, physical chemistry operation, Aerosciences Laboratory.

Richard J. Neddenriep, Ph.D. '58, has joined the staff of the Tonawanda Laboratories of Linde Company.

Arthur K. Nelson, B.S. '54, informed us while on a campus visit last December that he was then an instructor at Marquette University, and that he had brought his graduate work at Minnesota to the point where only writing up his thesis and the final examination remained.

Norman E. Nelson, Ph.D. '52, is a staff member of the Chemistry Department of Massachusetts Institute of Technology.

Lowell E. Netherton, Ph.D. '50, has been advanced by Victor Chemical to hte position of chief chemist, and thus became the successor to the late Willard H. Woodstock..

Susan G. Newbold, B.S. '57, is listed on the '58-'59 staff directory as a research assistant in physiology chemistry.

For the second time since 1955, **M. Starr Nichols,** B.S. '16, Ph.D. (Physiological) '26, has received an award for distinguished service in the water supply field. Now, as emeritus professor of sanitary chemistry and some-time assistant director of Wisconsin's State Laboratory of Hygiene, he received from the American Water Works Association in May, 1958, at Dallas the George Warren Fuller Award, in recognition of his many services to the Wisconsin section of the AWWA and the State, particularly through committee work, training courses, contributions to section meeting programs; his studies of the fluoride content of water supplies and his continuing interest in research and

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This 'n' That--

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water works problems.

Stephen W. Nicksic, Ph.D. '52, has been a resident of Los Angeles since September of this year. Steve is on a leave of absence from California Research Corporation in Richmond. He is conducting studies on the smog problem under the auspices of the Los Angeles Air Pollution Control District. We understand that the petroleum industry is cooperating in the researches currently under way there.

We have learned that **Wayland E. Noland,** B.A. '48, Ph.D. (Harvard) '52, has been promoted at Minnesota to associate professor.

Haverford (B.A. '42) alumnus **Paul R. O'Connor,** M.S. '44, holds an associate professorship at Minnesota where he is one of several Badger chemists in the chemistry department. For two years after his departure from the Wisconsin scene he was a research assistant at the University of Chicago's metals laboratory; during the following year a research associate at California's radiation laboratory; and in '47 he achieved doctorate status there. His association with Minnesota began that year as an assistant professor; promotion to associate professor came, at last report, in 1952.

Because our account of the activities of **Mary Jane Oestmann,** Ph.D. '54, since leaving the campus as stated in the last newsletter are incomplete, we bring it up to date in her own words: "I spent over two and a half years in Europe carrying out research in radioisotopes on a Norwegian scholarship at the Joint Establishment of Nuclear Energy Research in Norway and then in solvent extraction of irradiated fuel elements at A. B. Atomenerge in Stockholm, Sweden. After returning to the U.S., I received a visiting lectureship at the State University of Iowa. At present I am a principal chemist in Radiation and Radiosotope Division at Battelle Memorial Institute in Columbus, Ohio. Recently I presented a paper on high-level dosimetry at the International Atoms for Peace Conference in Geneva and participated in the International Congress of Radiation Research at Burlington, Vt."

Northwestern alumnus (B.S. '48) **Alfred C. Olson,** Ph.D. '54, is a research chemist at California Research Corporation, Richmond.

Our last information on **Maynard H. Olson,** B.S. '51, is that he is employed by Minnesota Mining and Manufacturing Company.

Karl A. Folkers

Research Director

The career of Illinois alumnus (B.S. '28) Karl A. Folkers (Ph.D. '31) from the time that he became a Badger chemist to the present is packed with awards, honors, fellowships, invited lectures delivered in memory of past personalities, and a Presidential Certificate of Merit at last World War's end. His list of accomplishments is so impressive that many chemists twenty years his senior would be proud to claim one like it as their own.

Karl arrived on the campus upon graduation from Illinois in order to take up graduate work as a teaching assistant to the late Prof. Homer Adkins. Promotion to a research assistantship came at the end of the school year and in two years thereafter he won his doctorate. His was a rate of progress as a graduate student which appears to be now the exception rather than the rule. His formal education completed, his future course, in a sense set the pattern for that of another Badger chemist of the next college generation: James M. Sprague, Ph.D. '34. Both spent their first three years after graduation from Wisconsin as post-doctoral fellows in organic chemistry at Yale. Karl joined Merck Company in 1934, Jim affiliated with Sharpe & Dohme three years later; both became colleagues upon the subsequent merger of their respective employers.

The quarter-century which has passed since 1934 has been one of rich experiences, outstanding research, well-earned rewards, and a number of promotions for Badger chemist Folkers. It is that period in his life when, in 1934, he began work in Merck's laboratory for pure research; when in 1938, he moved up into administration as assistant director of research; when, in 1945, he became director of organic and biochemical research and soon headed a research group of some fifty scientists; when, two years later he assumed the duties of associate director of research and development; and when, in 1953, he was made director of organic and biological chemistry in the research division. Currently, he is executive director of fundamental research at Merck, Sharp & Dohme research laboratories.

And as for recognition—he has been many times so rewarded—the first one to be given him was the Mead Johnson Award in 1940, as co-recipient, and again in 1949 for his work in the wartime field. The second one, at age 35, was the American Chemical Society's Award in Pure Chemistry in 1945 for his contributions in the field of organic chemistry, including the Erythrina alkaloids, vitamin B6, catalytic hydrogenations, and pyrimidines. This was followed in 1944 by the Scientific Award of Merck's Board of Directors for his research on antibiotics and his achievements in the synthesis of vitamins.

This award carried with it a most generous grant to any university of his choice. It was only natural that Illinois and Wisconsin should have been selected as the recipients. The Department is using Wisconsin's half to implement lectures in his honor by specialists in organic chemistry from other universities.

His latest recognition came early last November in the form of the Charles F. Spencer Award of the Kansas City Section. He was cited for his outstanding contributions to agricultural and food chemistry, specifically, his pioneering studies on the chemistry of the vitamins. On the occasion of his formal acceptance lecture medallist Folkers described one of his most recent research activities: co-enzyme Q, a a new enzyme group which was discovered independently, we understand, in 1957 by staff members of Wisconsin's Institue for Enzyme Research.

Without question National Academy of Science member Karl A. Folkers is one of our most "awards-able" alumni. He is the second Badger chemist in six to have received the ACS Award in Pure Chemistry and the tenth in the series which, except for 1939, has been unbroken since its establishment by A. C. Langmuir in 1931 and is now being continued by Alpha Chi Sigma professional chemistry fraternity.

William J. Olson, B.S. '41, made biochemistry his field of concentration and, upon acquiring the M.S. degree in '43, took a position on the campus with the U.S.D.A., continuing in the meantime his graduate work for the Ph.D. ('48). He now has a La Grange, Ill., address. Our last information on him: director of research, Fleischmann Malting Co., Chicago.

We have learned that **Jos. H. Paden,** Ph.D. '36, has been named director of research for organic chemicals division of American

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This 'n' That--

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Cyanamid.

Early last April, Du Ponter **John R. Pailthorp,** M.S. '47, was the guest speaker for that month to the Akron Polymer Lecture Group at the University of Akron. His subject: Viton Fluorocarbon Elastomers.

Donald E. Pearson, B.S. '36, enrolled in the graduate school at Illinois as a Ph.D. candidate. The doctorate achieved in 1940, he joined the research staff of Pittsburgh Plate Glass and two years later left industry for work in the far flung activities of the National Defense Research Committee. After a year's affiliation with M.I.T. as research associate, he joined the faculty of Vanderbilt University where, at last report, he is an associate professor.

Ethyl Corporation's research associate **Tillmon H. Pearson,** Ph.D. '51, was on the campus early in October, 1958, as a "visiting hireman."

Our report on the grandparent status as of last year of the **F. N. Peters,** Ph.D. '25, requires now a revision upward; their second is a boy, Fredus N. IV. Pete finds that although more and more his work—he is a Quaker Oats vp—leads away from pure chemistry and into the fields of foods and nutrition, he still likes to think of himself as a chemist, and that the receipt of Badger Chemist gives him a feeling that he still has a small but interesting connection with the group.

Ruth Meyer Polin (Mrs. Donald) M.S. '50, put her training in chemistry to a practical use, until 1954, in an Allied Chemical's research laboratory headed by Badger chemist **Robert L. Harris,** Ph.D. '51. Her husband is a research physiologist with Merck Institute in Rahway, N. J. "I'm afraid," writes Ruth, "that my only contact with chemistry is through Don's work and formula-making for babies." The Polins have two girls. They are living in Nixon in the New Brunswick area.

A. E. Potter, Ph.D. '53, heads the combustion fundamentals section of the Lewis Laboratory of the National Advisory Committee for Aeronautics in Cleveland.

James L. Rainey, Ph.D. '38, is one of several Badger chemists employed by Rohm and Haas. His address: Bristol, Penn.

Announcement was made last August from Los Alamos, N. Mex., that a daughter, Carol Anne, arrived on July 27 in the home of the **John B. Ramsay's,** Ph.D. '55. She has a brother, Bryan, and a sister, Kathleen.

A Badger Chemist Looks at Taiwan

A 1958 Christmas letter which had been posted half-way around the globe by Badger Chemist **John Godston,** Ph.B. '28, contains so much timely interest that we have taken an abstractor's pen in hand in order to share with our readers a few of his impressions of Taiwan—he describes it as the show-place of democracy in action, the bulwark in the Far East against the Commies—where at the time of writing he was serving as a food-processing specialist and consultant to the Republic of China.

He reported that well-kept paved roads traverse this 250-mile long island, and that they offer the visiting tourist hundreds of fascinating, strange sights such as scenic and historic places; colorful temples of Confucius, Buddha and others; refreshing Tamsui beach and its Florida-like climate; interesting Keelung and other wonderful harbors; rice fields on which cultivation and harvesting are done by hand; industrious women "beating the life out of clothes" in streams and at the corner faucet; patient farmers walking on treadmills to pump water from the rivers up to the irrigation ditches for their beautifully terraced fields of rice, sugar cane and sweet potatoes; coolies trudging along the roads pulling carts piled high with logs, bags of rice, cement; workmen balancing baskets of bricks at the ends of ropes tied to shoulder poles ("misery sticks") tricycle rickshaw operators transporting "modest" women in slit skirts which expose their beautiful legs "way up above the knee"; busy bazaar stalls selling handicraft gifts; and myriads of restaurants where patrons eat out of common dishes with chopsticks.

Public transportation there is by precisely punctual Toonerville-type, narrow-gauge trains whose coaches, because of a daily scrubbing of floors, walls, ceiling and seats, are immaculately clean at the beginning of the line. Tea is served by attendants with the compliments of management which also provides newspapers.

Electricity is cheap there. From strategically located hydro and thermo generators it is fed to a rapidly expanding market of home appliances—they are owned mostly by Americans—and to thousands of drab little factories or "cottage shops" and to multi-million dollar factories, for this is a land of government-owned or-sponsored enterprises turning out "oodles" of fertilizer, food, and industrial products.

School children are identified by the uniforms which they wear: olive drab for boys and black cotton skirts and white blouses for girls. Their education is free through the tenth grade, after which they are on their own in high school. A goodly number become university graduates either there or in the States. They appear to be motivated by a "burning desire to be scholars and engineers."

John closed his "impressions" in a philosophical vein. Commenting on the men and women of the cloth in temples, churches and chapels, "Evangelists of all sorts—Protestant, Catholic, Confusists and Buddhists—are easily reaping a big harvest of conversions. The "emergency" and the nearness to the booming of the guns in the Straits and on the Off-shore Islands, only a hundred miles away, make everyone feel an urgent need to have God handy at all times. This revival of a keen interest in religion is a matter of people and their emotions. Therefore, I'm more conscious now of the Chinese people and their temperament."

He finds the Chinese inhabitants of the island, of which there are some ten million, warm, friendly, generous and gracious; also polite, "very sorry, very sorry." His letter closes with these words, "However, I often wonder if their graciousness is deeply inherent and genuine. I'm in this quandry because there's no doubt but that they're the most favored recipients of the expensive gifts from the world's most liberal Santa Claus, dear old Uncle Sam. If I were such a recipient, I think I'd be very gracious, too. Who wouldn't be?"

E. Wilkins Reeve, Ph.D. '40, holds a professorship of chemistry at the University of Maryland, College Park.

As this note is being written, **Manfred J. Reinecke,** B.S. '56, is bringing to a close his studies for the doctorate at the University of California in Berkeley. If all proceeds according to plan he will begin his duties as instructor at California (Riverside) in September. Manfred married a Milwaukee girl, some-time Wisconsin student Marlene R. Zwisler. The Reineckes have a son, Kurt Manfred, born Dec. 10, 1958.

We have already mentioned in these newsletters the return of Hollingsworth-Whitney's retiree **Robert B. Reynolds,** Ph.D. '28, to his

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first love, the college campus. In this issue we have something new to report; and that something new is the appearance of another "transition point" in his life. At August's end of this year he laid aside the traditional props of the educator, the pointer and the piece of chalk, to take up residence in southern Alabama on a partly wooded tract of some eight acres where he expects to do gardening, fishing, and resting. A cherished memory of his two-year affiliation with Alabama College is the time when he, at the request of President Elvehjem, represented our University at the inauguration of Dr. Howard M. Phillips as president of Alabama College on 14 October, 1958. Mrs. Reynolds, who is a Milwaukee Downer alumna represented her alma mater in a similar capacity. Wrote Bob, "We felt quite proud of the double honor. It brought back many memories of our days at our respective institutions."

Donald and **Marie Roth,** Ph.D. '44 and '52, respectively, announce the birth of their first daughter, Joanne Marie on June 22, 1959. If building operations, as announced in late June, have progressed according to schedule, the two-child Roth family is now living in Brookfield, Wis., at 1620 Revere Drive.

Chemistry Course graduate '37 **Jerome F. Saeman,** Ph.D. '42, has been appointed chief of the division of wood chemistry at the U. S. Forest Products Laboratory in Madison after having served the unit in question for the past two years as assistant to its director. In that post he had charge of research relations with other organizations in the United States that maintain forest products research laboratories. In his new post he has charge of the laboratory's research program on the conversion of wood to useful chemicals, investigations on nitrocellulose, some projects conducted in cooperation with the armed forces, and on fundamental studies on the nature of wood and its chemical components. Badger chemist Saeman was first employed at FPL in 1936 as a student assistant and continued to work part time there while pursuing graduate studies. He became a full-time chemist in 1941.

Two years ago we reported that **Virginia M. Schelar,** M.S. '53, was a faculty member of Wright Junior College. In this issue we are pleased to state that Virginia is now an assistant professor of physical sciences at Northern Illinois University, De Kalb.

E. W. Schoeffel, Ph.D. (Bio.) '33, is director of research and development at Solvo Chemical Corporation, Rothschild, Wis.

Dorothy C. Schroeder (Mrs. J. P.), Ph.D. '49, is a senior research chemist at Ciba Pharmaceutical Products, Inc. and her husband who is one year her senior—Ph.D. classwise, that is—is assistant director of research at Bakelite.

We learned from the Christmas letter of the **Harry P. Schultzes,** Ph.D. '46, of the University of Miami, that Harry's book was accepted for publication in the spring of 1959, and that it is co-authored by **E. Earl Royals,** Ph.D. '44 of Emory University. Will it be published, as was Earl's first books, by Prentice-Hall?

Elmer L. Severinghaus, B.A. '16, M.D. (Harvard) '21, has completed a cycle from educator to manufacturer's executive to educator. A professor of medicine at Wisconsin for several years after his return from medical school, then a vice-president for clinical research with Hoffman-LaRoche, Inc., now a retiree of this manufacturer of pharmaceuticals, he is back to his first love, teaching. He is a professor of public health nutrition in the School of Public Health and Administrative Medicine of Columbia University. The Severinghaus family is living in Montclair, N.J., at 53 Stonebridge Road.

H. S. Shahani, M.S. '49, is an assistant educational adviser, technology, in the Ministry of Education and Scientific Research, Government of India. He is stationed in New Delhi.

Curtis F. Sheley, Jr., B.S. '57, is a teaching assistant in the Department.

Irwin Siegelman, Ph.D. '59, accompanied by his wife, the former Sharon Katch of Green Bay, returned to Madison last summer from Philadelphia, where he is a member of the University of Pennsylvania's chemistry faculty in order to take his final "oral" for the doctorate. The Siegelmans were married on August 31, 1958.

About six months ago, as this is being written, we learned that **Ernest T. Silversmith,** Ph.D. '55 was listed as one of Du Pont's new employees. Our last address for him was Cal Tech's Chemistry Department, Pasadena. His new address: 3810 Katherine Way, Dunlinden Acres, Wilmington, Delaware.

Two-degree Badger chemist **John I. Slaughter,** Ph.B. '50, Ph.D. '53, was a campus visitor in October, 1958, as a visiting hireman for Corning Glass Works. Before his affiliation with his present employer in 1955 he had been a research chemist with Standard Oil (Indiana). We learned that, at the time of his visit, the Slaughter's four children ranged from crib-age to kindergarten.

William L. Smith, B.S. '17, has been with B. F. Goodrich since graduation. He spent the first five years of his employment there in the chemical laboratory, and since that time has been identified with

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Hugo W. Rohde

Dean of Milwaukee's Chemists

When the Milwaukee Section of ACS was making plans for the observance of its fiftieth anniversary year in 1958, its choice for the position of honorary chairman was not a difficult one to make. A natural for the post was Schlitz Brewing Company's retiree Hugo W. Rohde, B.S. '01. Badger chemist Rohde, long active in Milwaukee in promoting chemistry and the interests of chemists, and of science in general, may, with good reason, be described as the dean of Milwaukee's industrial chemists. He is the surviving member of the group of some 22 comprising the Section's original membership roster and is the only one of the four seniors of his class who majored in chemistry and followed it as a career. He is an emeritus member of the American Chemical Society and the American Institute of Chemical Engineers, an honorary member of the American Society of Brewing Chemists of which he is a founder, and the oldest living member of the Wisconsin Academy of Sciences, Arts and Letters. An honorary life membership in the latter was conferred upon him in 1958.

We understand that some 400 friends, former associates and civic leaders of Milwaukee attended the Section's Golden Jubilee banquet at which Mr. Rohde was one of the four honored guests on this occasion.

The Rohdes in a sense are watching the world go by from their three-acre homesite with its former summer cottage on lower Genesee Lake in Waukesha county. Their address: Villa Elsa, Route 4, Oconomowoc.

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technical activities, such as compounding and product design. He is currently director of B. F. Goodrich Industrial Products Company, a division of the parent company, in Akron, O.

Victor G. Soukup, Ph.D. '53, who is with Cincinnati Milling, has informed us that he does not play much tennis anymore—it would be almost like coming out of retirement were he to do so—but with a house and four children he is never at a loss for finding something to do with his time. To help keep things humming, we understand, he and his wife Shirley devote much time to a wild flower garden, spread over a half-acre of woods and hillsides in which they have some 20 species of native orchids besides other flowers, some of which are rare, others common.

We were pleased to learn that the name of **John R. (Dick) Soulen,** Ph.D. '56, was among the list of new group and project leaders recently announced by Pennsalt Chemicals technical division. John is in the inorganic department. His wife is a resident in radiology at Jefferson Medical College Hospital. The Soulens have two sons: Michael, 18 months, and Jeffrey, 4 months.

George R. Spangenberg, B.S. '23, is general superintendent at Rainfair, Inc. of Racine, Wis. One of his sons is a Wisconsin '58 graduate in agriculture and the other is a member of the '59 class of chemical engineers.

We referred to **Samuel Spero,** B.S. '13 of Milwaukee in our 1956 newsletter— and we quoted him verbatim—as a specialty dealer, one who no longer has any contacts with the chemical field. Now, with his letterhead before us we can be more specific: Sam operates Spero Products, and his "Spear-O" line apparently includes wrought iron flower pot holders, "rail-on" ditto, and undescribed specialties.

After a pleasant chat with visiting hireman (Shell Chemical) **Marshall R. Sprinkle,** Ph.D. '32, in October a year ago we entered in our note book the following: son Robert a member of Colorado's 1959 graduating class with a major in international affairs; daughter Marcia Ann, a junior in Rye, N.Y., high school; son Jimmie, 12, a seventh grader. As for Marshall himself, a graduate of Wake Forest College when it was located in the North Carolina city of that name, he learned his chemistry there while a student in classes conducted by **Robert N. Isbell** who, in 1936, became a Badger chemist via the doctorate.

A brilliant career of some 34 years in the Federal service in the Forest Products Laboratory drew to a close at mid-year when Cal. Tech. alumnus, (B.S. '21) **Alfred J. Stamm,** M.S. '23, Ph.D. '25, retired. He, obviously, is not going to loaf the rest of his life because he has accepted a professorship in the Forestry Department of North Carolina State College in Raleigh, where he is giving a course and conducting research in the chemistry of wood and wood products. Affectionately known in wood research circles as "Dr. Stability"—and the number of research projects upon which he has worked are many—he regards his studies on the movement of moisture through wood as more fundamental and lasting than some of his earlier projects. Out of these studies have come methods for reducing, swelling or shrinking of wood in use. In one of them, known as "impreg," the wood is treated with a phenolic resin. We understand that it is used by auto manufacturers in the making of patterns for body parts.

Martha C. Stamper, Ph.D. '52, appears to be a fairly regular attendant at the University of Wisconsin luncheons which are always a part of the ACS meetings. She was one of the several tablefulls of the Department's alumnae at the Chicago meeting in September 1958. Last September she attended the Atlantic City luncheon. Martha is an Eli Lilly employee and has a biochemist's rating in this pharmaceutical firm.

Their first child, son Jeffrey Warren, was born to **Roy E. Starn, Jr.** Ph.D. '54 and his wife Jean on 11 February of this year.

Nancy H. Stecker (Mrs. R. O.), B.S. '57, at last report, was an instructor in chemistry at UW-M.

The transfer of **Albert H. Steffen,** B.S. '40, from Armour's Chicago laboratory to an office job as assistant manager of refining was prophetic of larger things for him in the company's personnel roster. Now a resident of Chattanooga, Tenn., Al is technical director of quality control at Lookout Oil and Refining Division, Armour and Co.

Charlene Steinberg, M.S. '48, was one of a group conducted last summer by our University's history professor M. B. Petrovich on an educational and sight-seeing tour of Russia.

John Steiner, Ph.D. '33, is director of Chemical Research Laboratories in Chicago.

"Please use this to help publish Badger Chemist. We enjoy it very much," wrote **Donald W. Stoutamire,** Ph.D. '57 and his wife, the former **Gabrielle Koehler,** M.S. '56, from Modesto, Calif. Don is with Shell Oil.

Vern L. Stromberg, Ph.D. '49, answered our question in Newsletter 5 concerning his whereabouts and activities by registering at the Wisconsin luncheon, ACS meeting, in Chicago, on 9 September, 1958. He is senior chemist at Petrolite Corporation. Mail will reach him at 369 Marshall Ave., Webster 19, Mo.

Mollie Gedney Supple (Mrs. Lee F.), B.A. '14, wrote from Kirkland, Wash., to ask for the address of a college friend of her student days, **Katherine Faville.** The only information that we could give her was a Detroit address of 1952. Do any of our readers know what Katherine is doing there? We understand that the Supples achieved ancestor status some time via a son who presented them with three grandchildren of assorted sex. They are living in Waco, Texas where their father is a Weyerhaeusen Company representative.

Richard O. Sutherland, Ph.D. '36, is an associate professor of chemistry at Missouri School of Mines, Rolla.

We have credited **Roberta Hemming Svacha,** B.S. '49, with making the first contribution to newsletter 7 in advance of its publication. In last year's Badger Chemist we listed her as a technical writer with Universal Oil Products Company. Should we have referred to her as a technical secretary?

The family of American Can's research chemist **Wesley A. Tarwid,** B.S. '50, now numbers five children, James, Joan, John, Joyce, and Robert. This represents an increase of two since our 1955 report.

We have learned that **Bryce E. Tate,** Ph.D. '50, has been transferred by Pfizer from New York to Greensboro, N.C., where his employer had set up a research laboratory after the acquisition of Morton-Withers Co.

In this issue of the newsletter mention is made of two firsts; and both of them concern chemistry majors who either made their training in the Department the background for the Ph.D. degree in another field on the campus or acquired it elsewhere. Both are sons of former professors who in their time were members of the University's faculty. One was a pharmacologist, the other a chemist. **Edward L. Tatum,** B.A. '31, (newslet-

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ter 5) in 1958 became the Department's first Nobel Prize winner for his work in physiology and medicine. Tatum, now a geneticist of world fame, shared one-half of the $41,420 prize with Dr. George W. Beadle of Cal Tech for their discovery that genes act by regulating specific chemical processes. Now a member of the Rockefeller Institute, he is one of an advisory committee on research for the expanded medical and scientific research program of the National Foundation. And in this respect he has the company on this 14-member committee of another Badger chemist, Harvard's professor of biological chemistry, **John L. Oncley,** Ph.D. '33

For some six years after graduation from Wisconsin Beloit alumnus (B.S. '37) **Robert E. Taylor,** Ph.D. '41, was with Commercial Solvents of Terre Haute, with time out for service in the U.S. Navy. A two-year affiliation with Pittsburgh Plate Glass then preceded one with St. Paul's "3M" where he became general manager of its defense products department. We learned at the Wisconsin luncheon, which was held in Chicago at the time of September 1958 ACS meeting, that he is now a senior consultant with Arthur D. Little, Inc., at its affiliate there, the former Miner Laboratories.

Howard G. Tennent, Ph.D. '42, was a campus visitor early in October of this year on visiting hireman duty for his employers, Hercules Powder. Out of a pleasant visit with him we learned that (1) the Tennent family now numbers three children ranging in age eight to three years; (2) there was an even distribution of sexes as of 1955; (3) Howard is a two-degree alumnus of Rensselear Poly Tech., B.S. '37 and M.S. '39; (4) that he joined Hercules in 1942 and then rose successively from research chemist to supervisor, to research division manager (an administrative position), to research associate.

Glenn A. Terry, Ph.D. '51, has been a group leader (inorganic) at Spencer Chemical Company since March of this year. He had joined Mallinckrodt, upon graduation, as a research chemist. His address, Prairie Village 15, Kan., is a change from St. Louis.

James Y. Tong, Ph.D. '54, is a member of the staff of Ohio University's Chemistry department, Athens. His rank: assistant professor.

Two-degree Colorado alumnus (B.A. '20, M.A. '22) **Ralph N. Traxler,** Ph.D. '26, joined the Texaco Company at Port Arthur-Port Neches, Texas in 1938. During his career with Texaco he has held a succession of assignments and is currently supervisor of research. Besides membership in ACS and AAS, his other affiliations are Society of Rheology, Associated Asphalt Paving Technologists, Institute of Physics, and American Wood Preservation. Dr. Traxler is the author of some 50 papers and has been granted a number of patents in the field of asphalt technology. His extracurricular activity is the chairmanship of the Board of Jefferson County Chapter of the National Foundation for Infantile Paralysis.

DuPont's recently announced new agent for fluorination, sulfur tetrafluoride, is the work, in large part, of three scientists; and one of them Ph.D. '38, who is credited with hav- is Badger chemist **Chas. W. Tullock,** ing explored the commercial methods of producing it. It results from the interaction of sulfur dichloride and sodium fluoride suspended in acetonitrile at 70-80 deg. C. A new class of compounds, the organoiminosulfur has turned up as a result of this research.

Word came from **Carl W. Umland II,** B.S. '52, about a year ago that his wife, the former **Jean Blanchard,**

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Frank M. Strong

Doctor of Science

Exactly 30 years ago Frank M. Strong, Ph.D '32, became a two-degree Syracuse alumnus. In September of that year he took his first step towards becoming a Badger chemist, with an assist from the Department in the form of a teaching assistantship; and in June of this year his alma mater, in recognition of his accomplishments since graduation, invited him to return to her campus at commencement time to receive the honorary D.Sc. degree.

Upon graduation in 1932, he, an organic major, remained on the campus to begin a career in the Biochemistry Department during which he advanced from a position as research associate, with an instructor's rating, to the full professorship which he achieved in 1948. His record to date reveals an unbroken residence in Madison except for the 16 months when, as a Rockefeller fellow, he studied at the University of Zurich in Switzerland and the University of Utrecht in the Netherlands.

On the extracurricular side of his activities are the chairmanship of the Wisconsin Section, ACS, 1944-45; the secretaryship of the Society's Division of Agricultural and Food Chemistry from 1954 to 1957 and more recently the chairmanship. He is the fourth Badger chemist to have held this post; and, if our memory serves, the first one of us to have received the coveted Borden Award of the American Institute of Nutrition.

Chancellor William Pearson Tolloy, before conferring upon him the degree of Doctor of Science, HONORIS CAUSA, made the following citation:

"Frank Morgan Strong, native son of Onondaga County, distinguished bio-chemist and superb teacher, you came to Syracuse University in 1924 and took both your bachelor's and master's degrees here. Your academic excellence was recognized by election to Phi Beta Kappa, Sigma Xi, and Pi Mu Epsilon. Upon completion of your doctorate at the University of Wisconsin you began your career of teaching and research rising through the ranks to your professorship in 1948.

"Through your creative scholarship in the field of biochemistry you have made substantial progress toward our understanding of the complex chemical systems involved in life processes. With your students and colleagues you have contributed over one hundred research papers and have been the author or co-author of five important books. You have helped develop micro-biological methods for the assay of vitamins. You have isolated and identified many important natural substances including antimycin A, and kinetin, a plant hormone promoting cell division.

"Your skills and wisdom have been devoted also to problems of human health through the Biochemistry Study Section of the National Institutes of Health, as chairman of the Study Group on Smoking and Health of the American Cancer Society, and as chairman of the Agriculture and Food Chemistry Division of the American Chemical Society. In 1956 you received the Borden Award of the American Institute of Nutrition.

"Your alma mater is proud to recognize your contributions to the body of scientific knowledge, to the fine art of teaching, and to human welfare through chemistry."

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Ph.D. '54, had temporarily "retired" at that time from Esso Research in favor of their first daughter, Anne, who was born in April, 1958. We understand that Jean, at the time of his writing, was keeping her hand in chemistry by teaching a course in the local Union Junior College several nights a week.

We have learned that salesman **David M. Vea,** B.S. '50, has changed employers but not type of work: Oronite Chemicals Co., to Pennsalt Chemicals, in New York.

Harold F. Wakefield, M.S. '23, of Union Carbide Plastics Company, a division of Union Carbide Corporation, was a campus visitor last January when he addressed the staff of the U. S. Products Laboratory. "Wake," whose affiliation with his present employer began with a predecessor company, the Bakelite Corporation, in Chicago is attached to his employer's New York offices in new product market development. He confided to us last July that he has a few more years to go before retirement; and so in about 1961, we expect to prepare a profile of this Badger chemist who is a hard-working, faithful, and productive fellow in his professional field, and a generous warm-hearted friend in personal relations.

Sam Weiner, Ph.D. '36, of the University's Wausau Extension Center, spent the summer of 1958 at Oak Ridge National Laboratory as a research chemist. Among his co-workers were several Badger chemists who helped make his stay there a pleasant one. Among them are **A. Russell Jones,** Ph.D. '49, who is a permanent resident of the city. Of him wrote Sam, "Russ is busy also with music, being classic records editor for some local newspapers besides helping his two children learn two foreign languages, thus upsetting the Tennessee educational system." Contributing also to his entertainment were the **B.O. Hestons,** Ph.D. '33, of the University of Oklahoma. Another summer-time member of the laboratory's personnel was **Norman Fogel,** Ph.D. '56, some-time teacher at Racine and Wausau Extension Centers who is now a member of the Chemistry department's staff which Badger chemist Heston heads. We understand that Norman pursued his hobbies of science fiction and acting there. Undeterred by the fact that his late arrival at Oak Ridge prevented him from participating in the Community Playhouse, he transferred his interest to the University of Tennessee group, the Carousel, at Knoxville, where he played in "Seven Year Itch." "Strangely," wrote Sam, "he played a social scientist, the screwball psychiatrist Brubacher."

Martin F. Weslowski, B.S. '57, is with Ray-O-Vac Co., Division of Electric Storage Battery, in Madison.

Chemistry Course graduate **Bruce D. West,** B.S. '57, began his third year as a research assistant in biochemistry last September.

Our latest information on **Jerry B. Witt,** B.S. '57, is that he is an instructor in the Extension Division at Green Bay.

We have learned that **Clarke Wolfert,** B.S. '13, after nearly three years of retirement (Diamond Match) has been "reactivated" by an Oswego, N.Y. shade cloth manufacturer whose research staff he joined by invitation some months ago.

W. David Wood, Ph.D. '56, has made a change of employers: from Buffalo's Spencer-Kellogg to Sterling-Winthrop Research Institute. The Woods announced the birth of Claire on July 28, 1959. Their address: 95 Sherwood Ave., Clinton Heights, Rensselaer, N. Y.

Some seven years ago three-degree **Raymond G. Zehnpfenning,** Ph.D. '41, wrote us from California that he liked Los Angeles and hoped to stay there for a long time. Madison still appears to rate high with him for he makes an annual trip home, by car, for a visit with his mother. He is now associated with the University of Southern California in the civil engineering department and is working on a public health project in sanitary engineering. It is supported, we understand, by the National Institute of Health. The subject: a study of algae in sewage ponds.

Henry Zendle, B.S. '36, on making a nice contribution to our Badger Chemist fund stated that he was not in the field of chemistry but that some ten years ago he acquired an interest in the Long Island Glass Works, Inc., in Sea Cliff, and that he is now secretary and treasurer of the company.

Twice a week Pittsburgh Plate Glass Company's research chemist **Walter H. Zophy,** B.S. '39, teaches

(continued on page 23, col. 1)

Wisconsin at Gordon Research Conference

This year's Gordon Research Conference began on June 15 and continued in weekly units at three New England schools through September 4. The program of the unit which met in New Hampton, N. H., on hte campus of the school of that name was pretty much Wisconsin chemistry alumni and faculty.

Prof. Paul Bender took part in the program devoted to magnetic resonance, as did Badger chemist Joe C. Guffy, Ph.D. '47. Dean J. E. Willard, Ph.D. '35, discussed the phase temperature and scavenger effects in the radiation chemistry of organic halides, before the group interested in the field in question. Professors Johnson and van Tamelen, the Department's experts on steroids, highlighted the program in this field and that of related natural products. Badger chemist, Steve Dal Nogare, Ph.D. '47, took part in an analytical chemistry program with a discussion of gas chromatography. Other Badger chemists whose names we found on het program are Harold F. Wakefield, M.S. '23, and ACS Award winner Gilbert J. Stork, Ph.D. '45.

The conferences were established to stimulate research in universities, research foundations, and industrial laboratories. Meetings are informal, consisting of lectures and discussion groups, with plenty of time for informal interchange among the scientists in related fields. Afternoons may be used for recreation, reading, or participation in discussion groups.

General Chemistry Teaching Assistants

Instruction in general chemistry for the current school year began with the appointment of seventeen new teaching assistants, thus bringing the present staff in this area to 45. The grade-point averages of the new group vary from a 2.96 to a nearly perfect one of 3.97!

The new appointees and the undergraduate school from which they came are: Peter F. Arvedson (Illinois), David H. Bohlen (Upper Iowa), Richard B. DeMallie (Amherst College), Gene L. Downs (Iowa State), Milton D. Glick (Augustana College), Rolf M. A. Hahne (Stanford), Daniel F. Harnish (Illinois), Kent A. Klanderman (Wisconsin), Richard M. Martin (California), Paul B. Masterson (Manchester), Lawrence D. McCory (Franklin College), Gene J. Pontrelli (City College of New York), David L. Powell (Oberlin), LaVerne C. Quass (Luther College), Carole F. Southerland (Dubuque), James M. Taup (Albion College). Ernest W. Valyocsik (Purdue).

This 'n' That--

(continued from page 22)

a class of some forty high school graduates in chemistry in the Institute of Technology, Division of Milwaukee Vocational and Adult Schools. All of them, we understand, are employed in local industries as draftsmen, tool designers, machinists, etc. They are in their fifth semester of a five-year evening curriculum leading to an A.A.S. (Associate in Applied Science) certificate in electrical, industrial, or mechanical engineering. Writes Walter, "This is an interesting group to teach, somewhat more motivated than the usual crop of college freshmen (who I have also taught intermittently on a part-time basis since leaving Madison)."

Addresses Wanted

Campbell, William P., M.S. '26
Cartwright, Ian J., M.S. '20
Chase, Lucille E., B.S. '20
Dirksen, Alvin J., Ph.D. '41
Dunaway, John W., M.S. '50
Epstein, Samuel N., B.S. '19
Fefer, Morton, B.S. '50
Freeman, Mrs. Andrew A., B.A. '21
Gilbert, Gerald, Ph.D. '51
Gilbert, Max, B.A. '15
Gray, Otis P.. Ph.B. '34
Hankinson, Arthur J., B.S. '39
Hannah, Mrs. Bert, B.A. '13
Hart, Mrs. Thomas R., B.A. '46
Hofmann, Lohtar, B.S. '10
Innes, Mrs. James, B.A. '16
Lawrence, Harold A., B.S. '29
Meincke, Edmund R., B.S. '34
Miller, (Henry) Paul, B.A. '40
Pattern, Harrison E., Ph.D. '02
Reinker, Paul H., Ph.D. '48
Rubin, Harry R., B.A. '36
Saine, Vergil L., Ph.D. '48
Schlig, Mrs. Hubert T., B.A. '25
Schreier, John A., B.S. '11
Schultz, Magnus P., B.A. '16
Seamans, Herbert L., B.A. '06
Shapiro, Edward S., B.S. '42
Shu, Nan-Chaing Wu (Mrs. Ping), M.A. '48
Sohngen, Jas. E., B.S. '52
Stice, J. D., M.S. '52
Sun, Cheng E., Ph.D. '33
Throckmorton, C. L., Ph.D. '41
Uribe, Vergaro, B., M.S. '45
Warmuth, Henry J., B.S. '24
Westerlund, Gilbert G., B.S. '27
Wiener, George W., B.A. '43
Wight, Edw. H., M.S. '15
Wolf, Henry H., B.S. '20
Wray, John L., M.S. '54
Zarem, Philip C., B.S. '34
Zellin, Charles E., B.S. '37

Badger Chemists At Johnson Wax

With the approval, and blessings, of the "upper echelons of management" of Racine's S. C. Johnson & Son, Inc., whose products enjoy an international distribution, we share with our readers what we have learned of the activities of the seven Badger chemists in its employ.

Elbert S. McLoud, M.S. '35, has been with the company for the past 27 years. He is now director of basic research. Considerable fundamental research on the properties of waxes, the composition and occurrence of natural waxes and the synthesis of waxy compounds has been done under his leadership. Under his direction, also, there has been carried out development work on waxes and related products, including solid waxes for packaging and casting, solvent-type waxes, solid alcohol, dubbing, corrosion resistants, gum preventatives, and candles. The reforestation of several large parcels of land in northern Wisconsin is his hobby.

Norman G. Mailander, B.S. '47, was associated as an instructor with the Milwaukee units which now comprise UW-M before entering the employ of Johnson Wax some ten years ago. Currently he is engaged in the development of corrosion inhibitors, water-repellent wax finishes for textile and paper products, automotive cleaners and metal polishes. His extra-curricular activities seem to be more diverse than those of his colleagues, to wit: the presidency of the Racine Camera Club, Boy Scouting, and photography. We understand that he pursues the latter enthusiastically.

Margaret M. Rendall, B.S. '45, entered the employ of S. C. Johnson & Son upon graduation from college. As a member of the Service Products Development Department she has contributed to her employer's numerous products: maintenance cleaners, furniture waxes, and solvent waxes. One of them carries the trade name of Forward.

Rodney W. Schrader, B.S. '50, has been with Johnson Wax for the past seven years. Among his activities during this time has been the development of insecticides, space deodorants and a rug cleaner.

Louis M. Sesso, B.S. '43, has a section-head rating on his employer's personnel roster. Many well known household products, such as furniture insecticides and automobile polishes, and water repellents, have been developed under his supervision. He is currently serving as secretary of the Racine Boy Scouts Drum and Bugle Corps.

St. Olaf (B.A.) alumnus **Orlando Tweet,** M.S. '47, joined Johnson Wax upon graduation from Wisconsin. His work there centers on the development of special methods of analysis. The Tweets have three daughters.

Lee R. Williamson, B.S. '48, who is now the father of five children, has been with the company for the past ten years. He is at present in the analytical section busy on the examination of emulsions and wax mixtures.

From Rings to Rice

Word came during the recent holiday season from **M. Hanif Khan,** Ph.D. '52, chemist with Attock Oil Co., Ltd., Rawalpindi, Pakistan, of his marriage, on May 23, 1959, to a Miss Rehana (he forgot, apparently, to tell us her maiden name), but he did state that his wife holds a B.A. degree from the University of Karachi. Badger Chemist extends a congratulatory hand to the Khans, and with it sincere wishes for a happy married life.

The parents of Betty Jean Bonham of Excelsior, Minn., announced the marriage of their daughter on September 19, 1959, to **Thomas A. Lies,** Ph.D. 1958. Tom is a research chemist with Wyandotte Chemicals Corporation. Best wishes for a happy future ot the Lies from Badger Chemist!

THE COLLOID CHEMISTS

(Tune: Solomon Levi)

O, we're the Colloid Chemists and we"re absolutely sure,
The father of our science, no other was than Noah,
There's Abraham and Solomon and also poor old Job,
But Noah was the only one who was a Hydrophob.

Chorus:
Oh Ultra Microscope!
See the molecules run,
Colloid Chemistry is the dope
Ain't we chemists got fun!
And when you're worked a year and get
A bunch of sticky muck
Just call the colloid chemist in
Or you'll be out of luck.

The Colloid Chemist's on the job from morning until night,
At dinner time you're more in debt with every single bite,
For soup and pie and bread that's made in twenty different ways
And marmalade and cheese and cake and also mayonnaise.

Chorus:

Quoting From Our Correspondents

"I almost forgot to contribute."—B. J. Babler, M.S. '36.

* * *

"Perhaps the enclosed check will take care of my arrears. Keep up the good work."—Jas. A. Bain, B.S. '40.

* * *

"I would be much less than loyal to not support the wonderful work you are doing by publishing Badger Chemist."—Fred B. Behrons, B.S. '28.

* * *

"I thoroughly enjoy every issue of Badger Chemist, chiefly because it is the only medium by which I can keep track of the men, both faculty and student, with whom I was associated at the University back in 1923-26." —Jas. K. Hunt, Ph.D. '26.

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"Keep the Badger Chemist coming. It's a fine publication."—William Krause, Ph.D. '34.

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"I've met a few U.W. alumni here (Dow) already, but learned of several others only thru the newsletter. Keep up the detective work."—James E. Krueger, B.S. '49.

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"Enjoyed reading the Badger Chemist. It was real 'newsy'."—Harley C. Loeffler, B.S. '34.

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"I like to think that a modest share of prizes have come to me through the years. Of these, the one I treasure most remains the memory of the pleasant days I spent at the University in Madison."—Theodore H. Meltzner, M.A. '42.

* * *

"Thanks. Keep up the good work." —Ambrose R. Nichols, Jr., Ph.D. '39.

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"I have very much enjoyed . . . Badger Chemist and hope that this most interesting newsletter can be continued. I am enclosing my support . . ."—Barbara H. Polister, M.S. '49.

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"Enjoyed Badger Chemist very much. I am looking forward to the next issue."—Russell S. Sawers, B.S. '42.

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"The newsletter is most interesting and a worthwhile venture."—Janet M. Schlatter, M.A. '36.

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"I am already looking forward to fall and the next Badger Chemist which I read from cover to cover upon arrival." —Barbara Greeley Schumacher, B.S. '52.

"I enjoy reading Badger Chemist and hope that it will continue for many years."—Carol Franzel Sigl, B.A. '51.

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"Appreciate receiving this newsletter periodically." —George R. Spangenberg, B.S. '23.

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"Thank you very much for your fine newsletter, 'Badger Chemist.' It's a real pleasure to read about alumni and faculty and to keep up with all the changes going on."—Charles H. Stammer, Ph.D. '52.

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"I have enjoyed Badger Chemist so very much. It brings back memories of Wisconsin days. It's of great interest to read of fellow classmates."—Jean Stern Baum, B.S. '47.

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"Just a note of thanks and encouragement for your work on Badger Chemist. It is greatly appreciated."—Paul S. Stutsman, Ph.D. '38.

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"I am enclosing my annual contribution for Badger Chemist which after a number of years is still the only alumni report that manages to provide interest."—Bryce E. Tate, Ph.D. '50.

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"Thank you for Badger Chemist. I hope that it will be possible for you to continue with this project for a long time."—John F. Vozza, Ph.D. '48.

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"Both my wife, Marianne, and I enjoy Badger Chemist with its news of the faculty and alumni. Your unselfish work is appreciated."—Donald R. Williams, B.S. '37.

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"Thank you very much for the 'Badger Chemist.' I certainly enjoyed hearing about the alumni and faculty whom I haven't seen since the San Francisco ACS meeting last spring (1958)."—Elinor A. Williams, B.S. '57.

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"Extremely pleased to receive Badger Chemist. Hope the enclosed bill will help defray some expenses and permit continued publication of such an interesting newsletter." —O. J. Dahl, B.S. '41.

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"Badger Chemist becomes more valuable with the passing years."—Merle Farnham, B.S. '33.

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"Both Lucien and I enjoy reading Badger Chemist. It brings back so many memories dear to both of us. Even before reading this (1958) issue, we knew that for you retirement would mean another form of activity." —"Bibi" Gagneron, B.A. '45.

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"Thanks for . . . Badger Chemist which I always enjoy reading. Hope you'll keep it up for many years to come."—Carl A. Hoppert, B.S. '20.

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"Thank you again for another Badger Chemist. It means especially much to us who are so far away from Madison and seldom get to see our Wisconsin friends."—Harold A. Jeskey, Ph.D. '42.

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"Keep Badger Chemist coming—wonderful to hear about old friends."—Brooks King, Ph.D. '31.

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"Once again we enjoyed Badger Chemist."—W. E. and Anita Z. Koerner, Ph.D. '49.

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"As per usual we enjoyed Badger Chemist. Actually we wish it would come out more often, however; we can fully appreciate the amount of work that goes into it."—Carl H. Krieger, B.S. '33.

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"Enclosed is my check which I trust will cover my share of the cost of continuing the publication of Badger Chemist. I enjoy getting that newsletter and hope that it will be possible for you to continue it on a permanent basis."—A. D. Lohr, Ph.D. '42.

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"As usual, Badger Chemist was again a most enjoyable publication and one which you have made worthwhile for those of us who have been away from school for some time. I hope you will be able to continue this for many years to come. To this end, I would like to make a nominal contribution."—Lester C. Lundsted, Ph.D. '42.

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"I find Badger Chemist very interesting and appreciate the chance to stay up to date on the whereabouts and fortunes of the faculty and my fellow classmates. Enclosed please find a small contribution which in no way expresses the magnitude of my appreciation for your newsletter." —Manfred C. Reinecke, B.S. '52.

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"I certainly do enjoy your wonderful newsletter; hope it will continue for a long, long time."—Charles Tullock, Ph.D. '38.