

## **Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 3 Summer 1955**

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# BADGER CHEMIST

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

NEWSLETTER 3

SUMMER, 1955

## Professors Honored On Becoming Emeriti

Down through the years it has been the pleasant custom at Wisconsin for colleagues and friends to honor a professor with a dinner toward the end of his teaching career. These dinners are invariably embroidered with post prandial

as much as the Department is now beginning its second century of service to the State of Wisconsin, Dr. Schuette deemed it an appropriate time to turn the occasion into an observance of its centennial and to recount its life history in terms of brief profiles of some of those who in their time had contributed to its eventful past. Dr. Hall took for his theme the Curie's, a family in which the concentration of genius appears to be unparalleled in modern times.

### Henry A. Schuette

Following nearly a half-century of service to the University of Wisconsin, emeritus status was conferred upon Henry A. Schuette on July first. His instructional activities began in 1910, only a short time after receiving his B.S. in chemistry, when he became the late Professor Fischer's teaching assistant. Professor Fischer's reliance on him grew to the point that he was promoted to an instructor in 1914, two years before receiving his doctoral degree. He became an assistant professor in 1918 and achieved his full professorship in 1936.

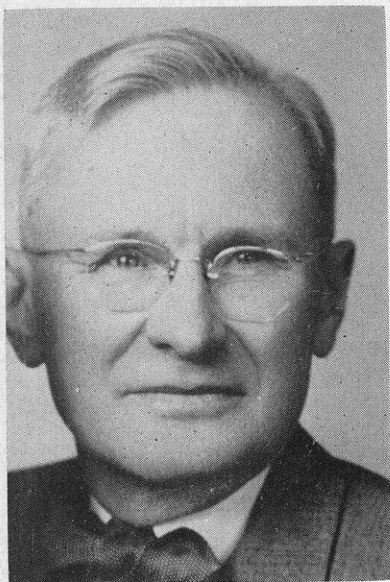
Professor Fischer very early in Dr. Schuette's career delegated to him the responsibilities for his courses in organic analysis, water and gas analysis, and food chemistry. Except for gas analysis, his teaching activities have continued with these courses up to the present time. Initially organic analysis was devoted to the separation and identification of organic acids and the alkaloids but this gave way to an emphasis upon the proximate analysis of foods, ultimate analysis, and the determination of functional groups. The course in food analysis also saw great changes from a period where the primary aim was the detection of adulteration to the present time with its interest in

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### Norris F. Hall

Norris Folger Hall, who has taught at Wisconsin since 1929, recently submitted his resignation in order to accept a position as senior chemist emeritus at the Argonne National Laboratory for atomic research. The Regents of the University, on the recommendation of the Chemistry Department, voted him emeritus professor standing in accepting his resignation.

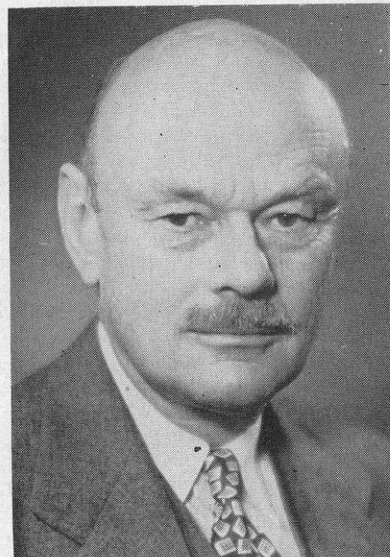
Professor Hall was born in Phila-



H. A. Schuette

speeches at which a delegated few "say nice things" about the guest. The experiment-minded Chemistry Department, however, on saying adieu to Professors Hall and Schuette did not follow convention this year with respect to speeches but presented each with a hand-lettered scroll signed by every member of the Department. It was an expression of esteem and congratulation upon the completion of the recipients' faithful service to the University.

Some 150 town and gown guests attended the banquet at the University Club on May 10. At its conclusion the honor guests were asked, in the chronological order of their affiliation with the Department, to address the group on any subject of their own choosing. In



N. F. Hall

delphia on July 7, 1891. His father was Lyman Beecher Hall, professor of Chemistry at Haverford College, one of the last students to take the Ph.D. under Woehler at Goettingen. Lyman Hall's wife was one of the first women physicians to practice in America. Norris Hall spent his freshman year of college at Grenoble in France and received his B.S. from Haverford in 1913. He then became one of the graduate students of Nobel Laureate T. W. Richards at Harvard. Dr. Richards had been a student of the elder Hall at Haverford many years before.

The doctoral degree was granted in 1917 for a dissertation dealing with the separation of isotopes of lead. After short periods with the

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## BADGER CHEMIST

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## From the Editor —

This issue of Badger Chemist is our third newsletter to the alumni of the Chemistry Department. The first issue was unwritten, in part, by one who prefers to remain anonymous. It was sent on its way as "a trial balloon" in the summer of 1953 to about 2,000 Badger chemists of whose whereabouts we were fairly certain. It was mailed in the faith that among our alumni there would be found enough to carry project Badger Chemist through the uncertain weaning stage. That faith has not been shaken. Your two responses to our requests for news and financial assistance have been most satisfying; and, if we may make bold to project the interest-in-the-venture curve, into the future it appears that the newsletter is on its way to acquiring a going-concern status. Are we too optimistic?

In as much as some 500 of our alumni are receiving this newsletter for the first time—a considerable expenditure of time and labor was involved in bringing our mailing list even to this, and still uncompleted, stage—we suggest that if any of our readers would like to have copies of the earlier issues, that they are available for the asking as long as the present surplus lasts.

We are hopeful that the day may come when we can personally acknowledge your replies, letters, and contributions, for they are most sincerely appreciated—and such fun to receive. Until then, please accept a "Thank you" through this word from the editor.

## Research Aided

A grant of \$950,340 from the Wisconsin Alumni Research Foundation is included in the University's '55-56 budget. In the Foundation's 30 year old history, a total of \$9,-

125,177 has been provided in support of the University's research program and allied projects. Allotted to the Chemistry Department is some \$67,524 of this amount. The stipends of 30 research assistants will take about 68% of the allotment; approximately one-fourth of it will pay the salaries of five project associates and assistants and one assistant professor; supplies and student help are taken care of by the rest.

Industry has contributed \$38,000 in the form of gifts and grants to the numerous research projects under way. The 14 fellowships and one postgraduate teaching assistantship made possible by this generosity are identified by the names of their donors: Allied Chemical and Dye Corporation, Nitrogen Division and National Aniline Division; Carbide and Carbon Chemicals Co.; E. I. du Pont de Nemours and Co. Inc.; General Electric Co.; General Motors; The Johnson Foundation; Minnesota Mining and Manufacturing Co.; Monsanto Chemical Co.; Procter and Gamble; Shell Oil; Socony-Vacuum Oil; Standard Oil Foundation; U. S. Rubber Co.; Visking Corporation.

## STAFF NEWS

The Analytical Division has added Daniel L. Leussing to its staff next fall as instructor. He received his Ph.D. at the University of Minnesota in 1953, under Prof. I. M. Kolthoff. His research was done on iron-thioglycolate complexes. Following completion of his degree, Dr. Leussing remained at Minnesota for a year teaching Professor Kolthoff's advanced courses. He then spent six months at the Stamford Research Lab. of the American Cyanamid Company before moving to M.I.T. where he taught qualitative analysis and organic functional group analysis and continued research on complex-ions and acid-base behavior in non-aqueous solvents.

This summer saw the publication of Professor Sorum's textbook "Fundamentals of General Chemistry" by Prentice-Hall. This brings to completion his general chemistry series which has seen the earlier publication of a problem book, and two laboratory manuals for introductory experiments and qualitative analysis.

Professor Ihde spoke before the chemistry-physics section at Mil-

waukee during the state convention of the Wisconsin Education Association in November, 1954. His talk dealt with the demonstration value of Priestley's nitrous air test. On March 1 of this year he addressed the American Association of University Women of Racine on the subject "The Social Implications of Modern Science." In June, taking for his topic "The History of Laboratories" he addressed the Science Conference of the National Science Teachers Association which was held in Madison.

Prof. John D. Ferry addressed five scientific groups during the period May 16-20 on the subject of "Elasticity, Relaxation, and Brownian Motion." The talks were delivered in Kalamazoo, Lansing, and Midland, Mich.; South Bend, Ind.; and Toledo, Ohio. Earlier in the year he participated in a symposium, as chairman and then as speaker, held at Brooklyn's Polytechnic Institute. The symposium title: "Viscoelectric Properties of Polymers"; that of his research paper: "Viscoelectric Properties of Soft Polymer Solids."

Prof. R. A. Alberty addressed an audience at Princeton and the Central Pennsylvania and Lehigh Valley sections of the A.C.S. during the period Jan. 19-20 on the subject: "Physical-Chemical Investigations of Enzyme Systems."

Another staff member, also on A.C.S. circuit, is Prof. E. L. King who in five days, Nov. 8-12, addressed local sections in Morgantown and Charleston, W. Va., Cincinnati, and Terre Haute and Indianapolis, Ind. His topic: "Complex Ions in Solution; Their Stability and Lability."

Five lectures before scientific groups in Evanston, Ill.; Kalamazoo, Mich., St. Louis, Mo., (Monsanto Chemical and local A. C. S. section), and Notre Dame, Ind. were delivered by Prof. Van Tamelen in the period April 29-May 12. His subject: "Stereochemistry of Yohimbine and reserpine. This summer Prof. Van Tamelen and John Baran, a graduate student from Chicago, announced the first synthesis of cytosine, a highly poisonous alkaloid. Though cytosine is of little practical value its synthesis should pave the way for synthesis of similar alkaloids.

Prof. Louis J. Gosting was recently appointed to the staff of the Enzyme Institute. He will continue to

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## Schuette - -

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vitamins, minerals and added chemicals.

There was a simultaneous development of a research program emphasizing the chemistry of honey and fatty oils. In the latter field particularly, Dr. Schuette won distinction. In a recent survey of institutions offering training in fatty oil technology Fred Kummerow (B.S. '39 Ph.D. '44 biochemistry) singled out Dr. Schuette's work for special recognition (J. Am. Oil Chem. Soc., 30:313, 1953). Only five universities were thus recognized. Six years earlier he was listed as one of the ten leaders in his field in a poll conducted by the Chemical Bulletin (Nov. 1947, p. 10).

Exactly 33 graduate students have received doctorates from his laboratory. In addition he has directed the thesis work of some 75 masters and about 150 bachelors candidates.

As further evidence of the esteem in which he is held by his professional colleagues attention may be called to his election to the chairmanship (1932-33) of the Division of Agricultural and Food Chemistry of the American Chemical Society. He was president of the American Oil Chemists Society in 1941. He served the Wisconsin Academy of Sciences, Arts, and Letters as president from 1944 to 1946. On the local level he has been president of the Wisconsin Chapter of Sigma Xi and has held all the important elective positions in the Wisconsin section of the A. C. S.

However, his interests have not been those of a narrow specialist. He is widely read and prides himself upon the correct use of the English language. His many thesis students will testify to his insistence upon good linguistic style, and while some complained bitterly to their friends at the time they invariably came to thank him for the understanding they gained about writing and bibliography.

History has been a particular interest of his. He is well grounded in the history of the pure food movement and the history of his native state of Wisconsin. His investigation of the early history of maple sugar is classic. His knowledge of the history of the Chemistry Department is so good that he will remain with the University for another year as a part-time staff member in order to write the history of the Department. Already

completed is one phase of that history, a record and reprint-bibliography of the Department dating from its organization 100 years ago. The 35 volumes on the shelves of the library suggest the magnitude and thoroughness of the job.

Dr. Schuette was married in 1918 to a Wisconsin alumna, Jean Fyfe Fredrickson, B. A. (physics) '14. Their daughter and two sons are now married and the Schuettes have had the pleasure of welcoming four grandchildren into their midst. Their beautiful home high on the Maple Bluff shore of Lake Mendota has often been the scene of the Departmental tea and many of us will remember Mrs. Schuette as a gracious hostess on these pleasant Sunday afternoons.

## Bachelors, Masters Now Alumni

Exactly 43 candidates in the bachelors' and masters' category received their respective degrees last June. Although this number is seven less than in '54, the total number of graduating chemists, inclusive of the Ph.D.'s, is practically the same, or 83. Chemistry majors numbered almost the same or 15; not quite twice as many, or 19, completed the chemistry course in '55 as in the year before. The largest decline was in the number of masters' degrees conferred, or 9.

Honors for distinctive scholastic achievement went to three seniors in the Chemistry Course and three majoring in chemistry. Hillel H. Gershenson, B. A., was the top senior with a grade-point average of 3.89 out of a possible 4 in the new system. Besides election to Phi Beta Kappa, he scored also as recipient of a bronze medal from the American Institute of Chemists.

Chemistry Course graduates joining the alumni are: Leonard J. Banaszak, Stanley W. Blum, Richard D. DeMars, John F. Hagman, Marcus T. Hagestad, Theodore J. Kitzke, Jr., Robert H. Krahnke, John F. Langkau, Elizabeth M. Montabon, Donald H. Morman, Liese-Lotte B. Muth, Theodore F. Pauly, David A. Reinke, Lee T. Rozelle, Margarete A. Sander, Rodney J. Sime, and James R. R. Spindler.

The chemistry majors are: Barbara I. Behling, Carolyn P. Cody, Laurence F. Friedman, Hillel H. Gershenson, Alan A. Grimm, Ralph D. Gottschalk, Thomas C. Hallada, Patricia K. Herscher, Donald R.

## Hall - -

(continued from page 1)

U. S. Bureau of Chemistry and the Bureau of Mines, Dr. Hall was commissioned a captain in the Chemical Warfare Service. Following the Armistice he had the opportunity to study at the Radium Institute under Madame Curie while awaiting transportation back to the states.

Upon returning to civilian life in 1919 he became a member of the chemistry staff at Harvard. Here he continued his research on radioactivity and also worked with James B. Conant, later Harvard's president and now ambassador to West Germany, on problems concerning the nature of acids and bases.

In 1929, after Prof. George Kemmerer's death created a vacancy in the analytical division at Wisconsin, Dr. Hall came to Wisconsin as assistant professor. He was promoted to associate professor in 1930 and to a full professorship in 1934. While at Wisconsin his research activities have continued in the fields of acid-base theory and radioactivity.

Dr. Hall was married in 1920 to Alice Bairdow Garrett whom he met in France where she was a Y. M. C. A. worker. Their two daughters are now married and the Hall's have become grandparents several times.

Dr. Hall brought to the department a cultural background rarely observed in a chemist. He was educated in the classics before specializing in chemistry. He speaks the French language fluently. He was a scientist who could talk to the humanists among the faculty in their own terms and he was a pillar of the Madison Literary Society.

Kneepkens, Robert S. Moore, Eugene D. Olsen, Yosef H. Pilch, Arthur F. Schubert, Robert F. Visco, Frank D. Wabers.

Five names must be added to the '54 masters group for degrees granted after summer session. They are Edwin S. Butenhof, Chicita I. Culbertson, James B. Evans, Raymond P. Iczkowski, and Donald Y. Larsen. The list is completed by the following who were granted the master's degree in June: Martin D. Barnett, Patricia Barth, Bertil P. Dahlstrom, Jr., Armen G. Fisher, Donald L. Martin, Mary F. Mills, Daryl L. Ostercamp, John S. Walker, and Leo W. Weisbecker.

## Staff - -

(continued from page 2)

carry on his research in the chemistry building.

Emeritus professor Mathews was invited last May to lecture to law enforcement officers in the Cleveland, O., area. His subject: "Fire Arms Identification."

Students in "Contemporary Trends" last semester were privileged to hear two lectures by Prof. J. E. Willard titled, respectively, "The Atom We Discover and Explore It," and "The Atom Reveals Its Ability to Work for Us." "Hot Atom Chemistry" is the title of the lecture delivered by him before four local sections of the A. C. S. February 28-Mar. 3, in Evansville and Bloomington, Ind., and Louisville and Lexington, Ky.

Prof. John L. Margrave shepherded a group of 36 chemists and chemical engineers to the 8th National Chemical Exposition in Chicago on October 15, 1954. A bus was rented for the trip which was sponsored by the ACS Student Affiliate chapter.

Announcement was made at commencement time of the promotion of Paul Bender to full professor and Irving Shain to assistant professor.

Frederick H. Getman's "Outlines of Physical Chemistry, born in 1913, later co-authored until 1941 as a very successful text by Professor Daniels, and "molded in the classroom for more than a third of a century," last spring appeared with an abbreviated title, "Physical Chemistry" and under new authorship, that of Daniels and Alberty who have made it "as up-to-date as today's scientific journals." Some 160 colleges and universities have adopted it as a textbook.

The accomplishments of two staff members, one of them a Badger alumnus, were recognized this past year by the presentation of awards. Prof. J. W. Williams, Ph.D. '25, received the \$1000 Kendall award of the A.C.S. for his research contributions in the field of colloid chemistry. The award was formally presented at the March 1955 meeting of the society. Professor Williams was among the first to apply the exact techniques of physical chemistry, especially in the field of electrical measurements and the use of the ultracentrifuge to the solving of colloid problems. He has extended this work to the field of protein chemistry and blood substitutes.

One of the highest honors that

an American chemist can be given came to Professor Daniels when he was awarded the 1955 Willard Gibbs medal of the Chicago Section of the A.C.S. The award, founded in 1910 by William A. Converse, was conferred upon him because of his eminent work in, and original contributions to, pure and applied chemistry. Harnessing the sun to do useful work by means of a solar engine or to produce electricity is his most recent area of research. He heads a coordinated research program on solar energy of the University.

Prof. and Mrs. E. M. Larsen announced the birth of a son, Robert William, on March 3, 1955.

Prof. H. L. Goering is currently supervising, under contract with the Armed Forces, two research projects. For the Office of Ordnance Research he is supervising researches on allylic rearrangements and, under the auspices of the Office of Scientific Research, Air Research and Development Command, one on the stereochemistry of addition and elimination reactions of free radicals and ions.

The Departmental Committee last year took the following action relative to senior thesis. The grade point average of 2.25 (old system) which for the past several years has been a requirement for permission to register for Chemistry 100, has been eliminated. Any senior chemistry major course student may elect Chemistry 100 providing he has the consent of a staff member under whose direction the thesis is to be done.

Prof. W. S. Johnson and Dr. Raphael Pappo, visiting lecturer from the Weizmann Institute, Israel, in cooperation with post-doctoral Brian Bannister and E. J. Pike have succeeded in the direct synthesis of testosterone, one of the male hormones, from simple coal tar products. The only hitherto practical approach to the problem had been via cholesterol. The Wisconsin group used 1,6-dimethoxynaphthalene as their point of departure. The final product is obtained in di form. Another group working under the direction of Prof. A. L. Wilds recently prepared 19-nortestosterone, a related compound.

Prof. Johnson has recently returned from Harvard where he spent last year as visiting professor during the absence of Prof. Louis Fieser.

## Our New Ph.D. Alumni

It has been estimated that about 45 per cent of each year's high school graduates go to college. Of these, 55 per cent attain the bachelor's degree; about 18 per cent of the latter group work to obtain a master's degree; and upon nearly 13 per cent of the master's group is conferred the doctorate. The Department's contribution to this group during the academic year just closed is 40.

The plush salaries offered by the industries attracted 21 of this group; 10 chose to affiliate with educational institutions; the U. S. Army inducted one of them; five joined the staffs of laboratories sponsored by Atomic Energy Commission; and one returned to his native Canada. The number of Ph.D. alumni now stands at about 793.

The names of the 40 new Ph.D.'s the title of the individual's thesis, the name of his major professor, and his present affiliation, follow.

### Degrees Conferred, December 1954

Richard S. Berger—The synthesis of 4,4-disubstituted pyridine bases (McElvain), Minnesota.

Ching-Wan Chien—Reactions of the halogens activated by nuclear processes in alkyl chlorides and bromides (Willard), Hercules.

Raymond R. Hindersinn—Attempts to affect the steric course of the angular methylation in the decalin system (Johnson), Hooker Electrochemical.

Robert E. Ireland—Approaches to the synthesis of the estrone structure via the Stobbe condensation with methyl gamma-anisoyl butyrate (Johnson), California, L. A.

Lee Henry Kalbus—The potentiometric determination of copper and other metals with dithio-oxamide (Meloche), Solvay Process.

Rudolph W. Kluiber—The synthesis of perhydropheanthrenes by the intramolecular Michael reaction (Johnson), du Pont.

William E. Loeb—I. Proof of structure of the Michael adduct of 3-methyl cyclohexenone and ethyl cyanoacetate II. Studies to the angular methylation of decalone derivatives (Johnson), Union Carbide Chemicals.

David B. Ludlum—Physico-chemical investigations of isomeric detergents (Williams), Bakelite.

Alfred C. Olson—Synthesis and  
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## Professor Fischer Passes On

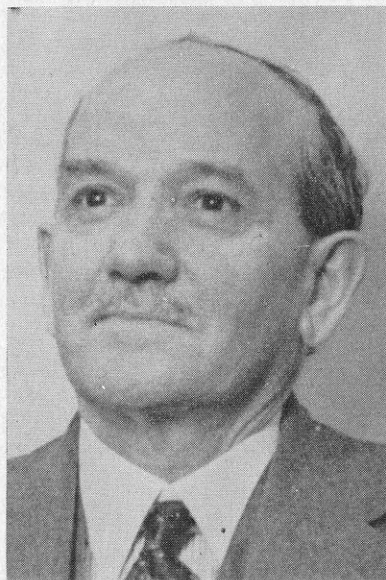
Richard Fischer, emeritus professor since 1940, died in Minneapolis on February 7, 1955, after a long illness. Because of the need of special care, and a desire to be near his relatives—he had no immediate descendants because he never married—he entered a nursing home there in the fall of '54.

He was born at New Ulm, Minnesota, on November 18, 1869 and received his early schooling there. His active association with Wisconsin began in 1894 when, having acquired a B. S. degree at Michigan, he joined the staff of the Department of Pharmacy as an instructor. Except for a two-year leave of absence (1898-1900) during which he pursued graduate studies for the doctorate at the Universities of Berlin and Marburg, that association continued to his retirement. Five years ago Marburg, in marking the fiftieth anniversary of his graduation, re-conferred upon him the Ph.D. degree, a practice which some German universities follow in honoring those of its alumni whose careers have reflected credit upon their alma mater.

In 1903 he was appointed chemist to the Wisconsin Dairy and Food Commission under an arrangement which permitted him to continue his teaching activities. In due course of time he was made director of the State Chemist's laboratory and then consulting director, a position which he held until 1930 when it was abolished for administrative reasons. The year 1909 marked the severance of his connections with the Pharmacy Department and his promotion to full professor in the Chemistry Department. His transfer, which was coincident with the establishment of the Chemistry Course, gave added interest to the instruction offered in the chemistry of the adulteration of foods, and in organic analysis in general. The next year he reached the goal of his ambitions: to teach organic chemistry.

Dr. Fischer reached his greatest stature in the field of food law enforcement when Secretary of Agriculture James Wilson, in anticipation of the enactment of the Pure Food and Drugs Act of June 30, 1906, sought in Wisconsin someone qualified by experience who possessed the necessary judicial temperament, acumen, and indepen-

dence to serve with the Committee on Food Standards of the Association of Official Agricultural Chemists. The choice of the Secretary was Dr. Fischer, already honored by his colleagues in the Interstate Food Commission (Association of State and National Food and Dairy Departments) with the chairmanship of its Committee on Standards. The report of this six-member committee is an historic document in the annals of the movement for reform in the interstate traffic in



RICHARD FISCHER  
1869-1955

foods in America. Dr. Fischer was the lone surviving member of this group.

Richard Fischer possessed a keen legal mind. He would have graced the legal profession equally as well as he reflected credit upon his chosen field as an educator. He had a judicial temperament which was not moved by personal considerations, a sharp analytical mind, and an unusually retentive memory.

Even as brothers and sisters helped each other in youth to start out on life's venture, so he later found it a pleasant obligation to act as the helping, generous uncle to nieces and nephews. His philanthropies were never limited to blood ties, however; many of our alumni will remember and appreciate his generous financial assistance. His final gesture was a \$10,000 bequest to the Department to be used as a loan fund for future generations of chemists. To his unusual ability as a teacher there was added a warm personal interest in his

students. His memory for the names and faces of his former students was really phenomenal.

Richard Fischer was a very human individual. His friends knew him as a man of humor and a pleasant companion. All that he did was done with meticulous care. He set high standards and lived up to them. Those of us who had the good fortune to be on camping trips with him still treasure the evenings spent around the camp fire listening to him sing the German "Lieder"—particularly the dialect songs of Bavaria which he had learned in Germany as a student. Unfortunately very few of his students saw this side of the dignified professor who was so serious in the lecture room.

## New Ph.D.'s - -

(continued from page 4)  
reactions of 5-cyclodecenol and related compounds (Goering), California Research Corporation.

Ralph H. Petrucci—The role of the vapor phase in the eutectic fusion of solid mixtures (Sorum), Western Reserve.

Clarence Postmus, Jr.—Rate and equilibrium studies on chromium (III) thiocyanate complexes (King), Argonne Laboratory.

Robert L. Strong—The flash photolysis and recombination of halogens in gas and solution systems (Willard), N.R.C. Canada.

Ignacio Tinoco—Some physical chemical studies of the conversion of fibrinogen to fibrin (Ferry), Yale.

William T. Tsatsos—Synthetic approaches to a total synthesis on non-aromatic steroids using benzenoid derivatives (Johnson), Shell Development.

Frank S. Williamson, Jr. — The kinetics and mechanism of the oxidation of sulfite by bromate ion (Sorum), Dartmouth.

Lung Yuan—Factors influencing energy efficiency during photosynthesis by chlorella (Daniels), Wisconsin.

### Degrees Conferred January 1955

Lewis J. Bodi—The theory of rotational-vibrational interactions in polyatomic molecules (Curtiss), Brooklyn College.

Israel A. David—I. Studies toward the synthesis of 2-(6'-methoxy-2'-naphthyl)-3-carboxyphenyl acetic acid. II. The synthesis and configuration of two of the stereoisomers of estrone. (Johnson), du Pont.

Richard F. Firestone—The radio-  
(continued on page 6, col. 1)

## New Ph.D.'s - -

(continued from page 5)

lysis of bromotrichloromethane (Willard), Argonne Laboratories.

Eugene F. Haugh—Di-electron forces between conjugated double bond molecules (Hirschfelder), du Pont.

James I. Hornig—A semi-classical theory of molecule collisions (Hirschfelder), University of Marburg.

Stephen Kraychy—Studies in the total synthesis of steroids via etio acids (Wilds), Sloan-Kettering Institute.

Harold F. Mason—I. The thermodynamics of reactions leading to the volatilization of uranium from oxide-halide systems. II. Reactions of alkali halides in the gaseous and solid phases (Daniels), California Research Corporation.

John B. Ramsay—Studies in flame photometry I. Determination of boron II. Determination of indium (Meloche), Los Alamos Scientific Laboratory.

James G. Reavis—Interaction of aluminum chloride and various Friedl-Crafts reactants (Willard), Los Alamos.

Richard L. Reeves—Solvolysis and dehydration in the 2-ter butylcyclohexyl system (Goering), Eastman Kodak.

Oscar Rodig—Studies on the synthesis of ring D of 17-carboxy-steroids (Wilds), University of Manchester.

Gershen Winestock—Hydroxy derivatives of equilenane (Wilds), U.S. Army.

### Degrees Conferred June 1955

William C. Child, Jr.—The vapor phase association of propionic L, d d2 acid-d (Bender), Wisconsin.

Peter J. Dunlop—Interacting flows in the diffusion of liquid systems (Gosting), Wisconsin.

Edmund J. Eisenbraun—The structure of nepetalic acid (McElvain), Monsanto, Dayton.

Joseph S. Jellinek—I. Nitration of 1-keto-1, 2, 3, 4-tetrahydrophenanthrene II. Reduction of alpha, beta-unsaturated ketones by lithium-ammonia solutions (Wilds), Polak's-Frutal Works.

Albert D. Kaiser, Jr.—Thermochemical studies on some binary systems, and the vapor density of pyridine (Bender), Humble Oil.

William D. Luker—Studies on the minor components of fatty oils. Corn and sabadilla (Schuette), du Pont.

William P. Riemen—I. The thermoluminescence of lithium fluoride and fused aluminum oxide applied

to gamma ray dosimetry. II. The kinetics of solid state reactions of silver with sulfur and silver sulfate with calcium and strontium oxide (Daniels), U. S. Rubber.

Wilbert J. Robertson—A study of the kinetics of the reaction between cerium (IV) and arsenic (III) in sulfuric acid solution (King), Mallinckrodt.

Leslie L. Sims—Investigation of the mechanisms of the Hofmann rearrangement and the radical and ionic additions of hydrogen bromide in 1-halocyclohexenes (Goering), Ethyl Corporation.

Rex M. Smith—The stability constant of complexes of biologically important phosphate compounds (Alberty), Shell Development.

Prasom Sthapitanonda—Studies at high temperatures. I. Vaporization of inorganic substances: magnesium nitride and tellurium dioxide. II. Dissociation energy and spectra of the magnesium molecule. III. Kinetics of nitridation of metals: magnesium and aluminum (Margrave), Chulalongkorn University.

LaVerne F. Trevor—The systems formed by zirconium and hafnium tetrachlorides with acetonitrile and isoamyl ether (Larsen), Argonne Laboratories.

## Solar Energy Has Global Interest

The interest in solar energy aroused by a symposium on this subject on the campus in September, 1953, has developed so rapidly that another one was held last October. On the invitation of the government of India, this one was held in New Delhi, October 22-26, under the sponsorship of UNESCO. At the conclusion of the conference, the delegates were given a complimentary week's study tour of northwest India.

Professor Farrington Daniels, the guiding spirit and organizer of the Wisconsin symposium, was privileged to attend it and to participate in the program of papers delivered. Mrs. Daniels accompanied him on the trip. Since New Delhi is about half-way around the globe, they flew by way of the Atlantic and returned over the Pacific, making the circuit in 35 days.

New Delhi was not the only stop on the trip, however, for the State Department had asked Dr. Daniels to lecture before interested groups in Paris, Athens, Cairo, Delhi, Bom-

## This 'n' That About Our Alumni

Penrose S. Albright, Ph.D. '36, heads the physics department of the University of Wichita, Kansas. He was president of the Wichita Farm and Ranch Club last year.

Robert F. Amlie, M. S. '53, upon graduation found employment in Madison where he is a research chemist with Ray-O-Vac Company.

To the Robert J. Athey's, Ph.D. '54, was born a daughter Linda, on May 1, 1954. Linda's dad is a research chemist with the vast du Pont organization.

Gilbert H. Ayres, Ph.D. '30, is professor of chemistry in the University of Texas, Austin.

Bernard J. Babler, after earning his B.S. and M.S. degrees in '35 and '36, respectively, became a LSU alumnus in 1940 when the Ph.D. was conferred upon him. He is associate professor at the University of Illinois, Navy Pier, Chicago.

In Kalamazoo, Mich., will be found Charles F. Bailey, Ph.D. '30, in the research division of Upjohn's Department of Patents and Technical Information. His wife is the former Mary E. Carney, B.S. '30. The Bailey's have two children; daughter Jane attends Western Michigan College in her home city and Jon Charles at last report was in training at the Naval Air Station, Pensacola, Fla.

Grant C. Bailey, B.S. '32, is a research chemist with Phillips Pet- (continued on page 7)

bay, Bangalore, Hong Kong, Bangkok, Tokyo, Sendai, and Honolulu.

Whereas five different countries were represented at the Madison meeting, four times as many sent 28 delegates to this one. They were brought together, Dr. Daniels said, in the hope that some practical use of solar energy or wind power might be developed in the arid regions of the world. Discussed were such problems as the use of solar engines for irrigation, for the distillation of sea water, and for heating and cooling houses. Solar cooking also received attention. Although sun and wind cannot compete with coal, oil, and electricity in industrialized areas, Dr. Daniels predicted that they may well compete with the animal power and man power still used in under-developed countries. He is convinced that research in these fields should be encouraged in many laboratories.

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roleum Company, Bartlesville, Okla. He earned his Ph.D. at Iowa, '38.

**Henry D. Bainbridge**, B. S. '30, is vice-president and factory manager with Sedal Paint Company, Springfield, Ill. The Bainbridge's have a son who entered Illinois last year and a daughter who, her father hopes, will enroll at Wisconsin in September.

Badger alumnus **Robert L. Baldwin**, '50, who later brought distinction to his Alma Mater via a Rhodes scholarship, D. Phil. Oxford, begins the academic year at Wisconsin as assistant professor in the College of Agriculture.

**Loren Bannister**, Ph.D. '53, is a research chemist with Monsanto Chemical Company, in St. Louis.

Ex-chemistry teacher **Mary E. Batiste**, B. S. '49, finds her new position as administrative assistant to the executive secretary of the National Science Teachers Association, Washington, D.C., an exciting type of work. It calls for travel, convention, conference and publication assignments, besides other responsibilities—she once presided over a session at which our Dr. Daniels spoke—in a city which is to her liking. Her summer activities included a ten-week "little pleasure jaunt" in Europe.

Retirement in June '53 at 65 from the faculty of Ripon College after 32 years as professor of chemistry meant merely a change in affiliation for **Augustus L. Barker**, Ph.D. '22. He is now a member of the chemistry staff at Alabama Polytechnic Institute, Auburn. Retirement? In our book it is a retreading!

**A. J. Barocca**, B.S. '38, M.S. '39, is sales manager, Explosives Division, with Olin Mathieson Chemical Corporation, East Alton, Ill. The Barocca family; two boys and two girls.

In Azusa, Calif., serving as senior chemist with Aerojet-General Corporation, will be found **George W. Batchelder**, Ph. D. '32.

Allied Chemical's chief of research of their nitrogen Division in Hopewell, Va., is Badger chemist **Leland J. Beckham**, Ph.D. '34.

**Grover W. Bellile**, B. S. '40, is director of control with Rayette, Inc., St. Paul, Minnesota.

On the scientific personnel roster of du Pont's Kinston, N. C., will be found the name of **Harry R. Billica**,

Ph.D. '48. He is a technical supervisor.

**Robert A. Black** did not remain long enough at Wisconsin to add a master's degree to his B.A. '42, College of Wooster, but went on to the University of Louisville where he earned his M. S. in '50. He is now a group leader, chemistry research with Joseph E. Seagram and Sons, Inc., of that city.

Our thanks to **Edward S. Bloom**, Ph.D. '40, a supervisor in du Pont's Polychemicals Department, Research Division, for the list of Wisconsin graduates in du Pont's employ which he sent us.

The ring-to-rice period in the lives of **Richard J. Boomer**, B.S. '49, and **Lura Estabrooks** of Fond du Lac, Wis., ended on 8 August, 1953 when they were married. Richard is chemist in the Control Department of Abbott Laboratories, Inc.

**Gerald T. Borchardt**, Ph.D. '37, appears to divide his free time between two hobbies: cameras and a miniature railroad. He confesses to an eviction from their third floor hobby room—it was found to be more suitable for teen-age parties—to the basement with his railroad. His gainful occupation: manager, Marketing Analysis, du Pont's Polychemicals Department.

After earning his B.S. degree in '50, **D. E. Brasure** enrolled in the Graduate School of the University of Illinois and completed his formal education there in '53. Dr. Brasure is a research chemist in du Pont's Film Department in Buffalo.

Our alumni list embraces many a family combination, such as husband-wife, father-son, father-daughter, brothers, sisters and uncle-nephew, but it remained for **James M. Breckenridge**, Ph.D. '10, to report a different one: father-son-in-law. Daughter Jean married **Allen G. Gray**, Ph.D. '40, of Shaker Heights, O.

Wisconsin's Marathon Corporation counts among its several Badger chemists, **Loren J. Brewer**, B.S. '40, who is in the Central Research Department.

Worcester Polytechnic Institute associate professor **Wilber B. Bridgman**, Ph.D. '37, shares with many others the distinction of having a perfect record to date with respect to financial support of Badger Chemist.

**Eugene O. Brimm**, B.S. '38, is another Badger chemist who went on to Illinois to complete his formal education. Dr. Brimm is now a research supervisor with Linde Air

Products Co., Tonawanda, N. Y.

The three-member **Frederick L. Browne**, Ph.D. '21, family spent the summer of '54 on vacation in Great Britain. Son **Cornelius**, a Badger nuclear physicist (Ph.D. '51), holds a research associateship at Massachusetts Institute of Technology. The senior Browne is a chemist on the staff of the United States Forest Products Laboratory, Madison.

**Ray H. Brumblay**, Ph.D. '38, spent the summer of '54 in Madison on a research assignment. Dr. Brumblay holds an associate professorship in the University's Extension Division at Milwaukee.

Upon acquiring her first degree, **Mary Van R. Buell**, B. A. '14, went over to the "Ag" campus for graduate work; her objective, the Ph.D. degree, was achieved in 1919. She currently holds an associate professorship of biochemistry in the University of Chicago, and before that had been affiliated with Illinois, Iowa, Johns Hopkins, Wisconsin and Washington Universities.

**Charles R. Buerki**, B. S. '49, describes his present position with Archer-Daniels-Midland Co., Minneapolis, as "chemist, exploratory research."

**George M. Buffett**, Ph.D. '33, is the technical director of Pittsburgh Plate Glass Co., Springdale, Pa., paint factory.

Badger chemists of the mid-30's era will remember the Department's charming and efficient secretary of that time, **Laura Drescher**. She is now **Mrs. Clifford J. Burg** and the mother of two daughters, Jean 12, Betty 9, and a son, John 14. Dad, B.S. '37, is a senior chemist with Ohio Rubber Division of Eagle Pitcher Co., Willoughby, O.

Arizona State College assistant professor **Edward E. Burgoyne**, Ph.D. '49, served as chairman of the discussion committee on organic chemistry of the First Chemistry Institute held during the summer of 1954 at the University of Wyoming, Laramie.

**Howard Burkett**, Ph.D. '42, has returned to De Pauw University after a sabbatical spent at the University of Washington. The Burketts, who live in Greencastle, Ind. have four children.

Another Archer-Daniels-Midland employee is their southeastern sales manager **J. Curtis Burkholder**, B.S. '37, M.S. '38. His address: 330 Old Ivy Road, N. E., Atlanta, Ga.

Back on the campus of the University of Idaho where he earned his first degrees, is **Louis C. Cady**,

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Ph.D. '34. He is dean of the Graduate School and executive secretary of the Graduate Council.

**Donald D. Cameron**, Ph.D. '53, and **James E. Carnahan**, Ph.D. '46, are research chemists with du Pont in the Experimental Station.

Research chemist status is that of **Arthur W. Carlson**, Ph.D. '52, with Velsicol Corp., Chicago. He may be addressed at 317 Somonauk Street, Park Forest, Ill.

Two medals in the possession of Eastman Kodak Company's senior research associate **Burt H. Carroll**, Ph.D. '22, attest to his achievements and reputation in his field. The first of them, the Jensen Medal of the French Photographic Society, was followed in '54 by the Henderson Medal of the Royal Photographic Society.

**Owen Carter**, Ph.D. '39, is one of several Badger chemists in the employ of Procter and Gamble Co., Ivorydale 17, O.

The **Robert S-H Chiang's** (Ruby Wong), Ph.D. '53, and M.S. '49, respectively, announced the birth on June 10, 1954 of their second daughter, Beverly June.

The **Roger M. Christensons**, Ph.D. '44, and their three children joined the trek of Pittsburgh Plate Glass chemists from Milwaukee to Springdale, Pennsylvania, when the company's new research center was opened there.

**Willard P. Conner**, Ph.D. '40 like Robert S-H Chiang, is a research chemist on the staff of Hercules Powder Co., Wilmington, Delaware.

**James W. Conners**, B. S. '50, went on to Harvard's Business School for the B.A. degree. As of last October he was a trainee with Dow Chemical slated for sales development in Technical Services and Development.

**Lloyd M. Cooke**, B.S. '37, acquired his Ph.D. '41 at McGill University, Montreal; is assistant manager, Technical Division of the Visking Corp., Chicago; is chairman-elect of the Chicago Section of the A. C. S.; lists flying and golf as his hobbies; with his wife as passenger has flown his own plane over the Caribbean area and some of the Canadian provinces; and plans on getting a bird's-eye view this summer of Alaska's mountains and rivers.

**Milford A. Cowley**, Ph.D. '33, is chairman, Department of Physical Sciences and Mathematics, at Wisconsin State College, LaCrosse.

**Fred W. Cox**, Ph.D. '39, is chief

chemist in charge of chemical research with Deering Milliken Research Trust, Pendleton, S. C. He had previously spent 3 years with Southern Research Institute in Birmingham and 5 years as assistant director for research in George Tech's Engineering Experiment Station. While a resident of Atlanta he had been honored by its Chamber of Commerce, and Time Magazine, as one of 100 future leaders of this city.

**Howard I. Cramer**, Ph.D. '29, is vice president in charge of development with Sharples Chemicals Inc., Philadelphia. The Cramer's daughter, Joanne, joined Wisconsin's alumni group when she was graduated, June '53, in occupational therapy.

**Kenneth E. Crook**, Ph.D. '30, who enrolled in our Graduate School after acquiring his secondary degrees at the University of Oklahoma, is back at his alma mater: his title, Professor.

The title Director of Technical Service and Product Application Laboratory reveals **Michael J. Curry's**, Ph.D. '48, present activities with Celanese Corp., Summit, N. J.

**Dorothy** (B.S., pharmacy '46) and **Stephen Dal Nogare**, Ph.D. '47, are now the parents of three children: two girls and their last born, a boy.

**Glenn H. Damon**, Ph.D. '32, is assistant chief, Explosives and Physical Sciences Division of the United States Bureau of Mines, Pittsburgh.

The **Guido H. Daub's** are one of our several husband-wife alumni. He is a '49 Ph.D., and she, the former Kay Powell, is an M.A. '48. They have two children, Guido William, and Elisabeth.

**Israel A. David**, Ph.D. '55, has joined the many Badger chemists in the employ of du Pont. His address: Carothers Laboratory, Wilmington, Delaware.

After having received his B.S. in '39, **Walter K. Dean** enrolled in Missouri School of Mines and Metallurgy and added an M.S. in '41. Since that time he has been with Mallinckrodt in St. Louis. His avocation: editor of St. Louis Section Bulletin.

A journey eastward by **Henry C. Dehm** that began at the University of Denver where he earned his first two degrees and was interrupted by a stay at Madison long enough to permit him to capture the Ph.D. degree in '54 ended in Wilmington, Delaware. His employer: Hercules Powder Co., as research chemist.

**Anella Wieben Dexter** (Mrs. L. N.), B. A. and M.S., '21 and '22,

respectively, wrote that (a) her husband is a geophysicist in Houston, Tex. (b) they have two sons in college, (c) that natural history photography is her avocation.

**M. E. Diemer**, Ph.D. '11, turned an avocation into a profitable vocation. He is the owner of the Diemer Studios, Madison, has travelled extensively to capture hundreds of wild flowers in their natural colors, and spends his winters in Florida.

A father-daughter Badger chemist combination is that of **Henry B. Merrill**, Ph.D. '21, and **Phyllis Merrill Dietz** (Mrs. R. A.), B.S. '48, whose husband is a staff member of the Biology Department at Troy State College, Ala. Twins, a boy and a girl arrived in the Dietz family in September '51; another daughter, Barbara Louise, was born on June 8, '54.

**Fred F. Diwokey**, Ph.D. '30, came to Wisconsin from Oregon State College for graduate work and, as of last August, was within a stone's throw of Mexico, in Brownsville, Tex. He is superintendent of the Stanolind Oil and Gas Co. chemical plant there, making gasoline and chemicals from natural gas and oxygen.

**James D. Doedens**, B. S. '50, is a project leader with Dow Chemical Co. His address: Aromatics Research Laboratory.

**Marilyn Hayes Dunshee**, M.S. '48, and her husband **Bryant Dunshee**, Ph.D. bio-chem. '50, are at Minneapolis where Bryant is a chemist with General Mills. Bryant attempted to supply us with pictures of badger chemists at the Wisconsin luncheon in New York last fall only to have the film ruined by the company which developed it. We'll have to try again. In the meantime if any of you have pictures of badger chemists suitable for this newsletter we would appreciate your letting us use them.

Exactly 35 years from the date that she entered the employ of Kentucky's State Department of Health, **Sarah Vance Dugan** (Mrs. F. C.), '17, resigned from her position as Director, Division of Foods and Drugs. She reported having no immediate plans for a new job outside of that as a housewife which she had combined with the other for 30 years.

**Edward A. Durand**, Ph.D. '50, is senior research chemist with Ekco Products Co., Chicago. The Durand's are the parents of two boys and a girl.

**John O. Edwards**, Ph.D. '50, holds

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an assistant professorship of chemistry at Brown University. His wife the former Ruth Christofferson, is a Wisconsin alumna with B.S. in chemistry conferred in '49. The Edward's have two daughters, Kathleen and Joan.

**Rosemary G. Ehl**, M.S. '53, is one of 18 teachers named to the faculty of the newly organized Monongrove Union High School in the village of Monona, a Madison suburb. She will teach mathematics and chemistry.

**Fred J. Emig**, B.S. '27, is a du Pont employee whose work does not keep him in the East, but in Chicago. His job: manager, Insulation Sales; his home, Arlington Heights.

In the fewest possible words, **Clifford A. Erickson**, M. S. '50 let it be known that he receives his mail at Ohio Apex, Inc., Nitro, W. V.; his employer's address is "same;" and his present position, chemist.

At last year's end, **Albert L. Eustice**, B.S. '51, was "employed" as chemist by the United States Army, Army Chemical Center, Maryland.

**T. W. Evans**, Ph.D. '52, is serving as a metallurgist with G. E.'s Hanford Atomic Products Operation in Richland, Wash. The Evans' have two children and like living in the desert with its very mild winters and abundant sunshine, but are appalled, like Dr. Daniels is, "by all the energy being wasted" out there.

Another Badger chemist family with twins is the **Charles Everhart**, B.S. '49, unit. They have three other children. Charles is plant manager with Buhner Fertilizer Co., Danville, Ill.

Although his duties as head of the Chemistry Department of the College of Puget Sound, Tacoma, keep him very busy, yet **Philip R. Fehlandt**, Ph.D. '34, finds time to raise orchids, of which he has 450 different kinds.

Three-degree Badger chemist, **Robert N. Feinstein**, B. S. '37, M. S. biochemistry '38, Ph.D. physiological chemistry '40, is a research associate of Argonne National Laboratory and assistant professor of biochemistry in the University of Chicago. His extra-curricular activity: editorship of the Chemical Bulletin of the Chicago Section of the A. C. S.

The **David F. Fordye's**, Ph.D. '50, have a second son, Kenneth Reid, born sometime in November, 1953.

Kenneth's dad is a research chemist with Rohm and Haas.

**Stephen E. Freeman**, B.S. '31 and Ph.D. '35, is president of the Freeman Chemical Company, Saukville, Wis., manufacturers of alkyd resins, varnishes and allied products. The Freeman's have two teen-age daughters.

**Dean Sidney J. French**, Ph.D. '28, has left Colgate University for a similar position in Rollins College, Winter Park, Florida.

The **Carl E. Fricks**, Ph.D. '23, have proudly reached grandparent status, for the first time.

**Ralph Friess** is manager of research services for Ray-O-Vac Co., Madison, Wis.

**Marjorie R. Fuller**, B.A. '44, is on the library staff of Mead Johnson and Co., Evansville, Ind.

**Adrian M. Gammill**, Ph.D. '51, is research supervisor with Davison Chemical Co., Baltimore.

**Harold H. Geller**, B.S. '39, is in charge of the Brewing Research Department of Pabst Brewing Co., Milwaukee. A boy and two girls, ranging in age from nine months to 11 years comprise the Geller family.

**Nathan Gilbert**, Ph.D. '42, holds an associate professorship in the Chemical Engineering Department of the University of Cincinnati. His wife, the former Hilda K. Gilbert, Ph.D. '43 in economics, is serving as executive secretary, Social Service Exchange of Cincinnati. Two children, Miriam Anne, 11, and David Mark, 7, have blessed their marriage.

Associate Professor **Philippa Garth Gilchrist**, Ph.D. '31, is chairman of the Chemistry Department, Wellesley College.

**Paul K. Glasoe**, Ph.D. '38, is professor of chemistry in Wittenberg College, Springfield, O. The Glasoe family consists of three daughters, aged 5 to 13 years. Badgers still at heart, they manage to return to Wisconsin during the summer time for a stay at Long Lake.

**Howard J. Glenn**, Ph.D. '48, is one of several Badger chemists on the staff of the Abbott Laboratories, North Chicago. On expressing a particular interest in our account in the last issue of Badger Chemist of the "Ole's" at Wisconsin, he reminded ye editor of the omission of his name and that of Al. Winger and Archie Bolstad. That makes our original story even better.

The **Howard Gottlieb's**, B. S. '40, 4405 Tokay Street, Madison, announced the birth of a son, Allan Lionel, on February 24 at Madison

General Hospital.

**Robert P. Graber**, Ph.D. '49, is a senior chemist with Merck and Co., Inc., Rahway, N. J.

**Frederick M. Granberg**, B.S. '39, is superintendent of service operations of the Niagara Falls mills of Kimberly-Clark Corp.

**Joe C. Guffy**, Ph.D. '47, writes that he enjoys the "outdoor" living of California in Berkeley where he lives with his wife and two children. His employer: California Research Corp. Joe last year was chairman of a committee of six which planned and organized the Western Spectroscopy Conference held at the University of California, Berkeley.

**William A. Hadfield**, B.S. '14 and M.S. '15, is employed by Pennsylvania Salt Mfg. Co., in its technical department. His son, who writes "Jr." after his name, is a practicing physician in Drexel Hill, Pa.

**N. V. Hakala**, Ph.D. '43, is assistant director of Esso Lab's research division in Linden, N. J.

Three boys comprise the **James L. Hall** Ph.D. '39 family. Dad is an associate professor of chemistry in West Virginia University, Morgantown.

After acquiring a B.S. degree in '48 **Richard S. Hansen**, B.S. '48, took a position with Abbott Laboratories. Within three years he was back on the Wisconsin campus, this time as a medical student, and a year ago began his internship; at Highland Hospital, Oakland, California. In answer to his question, "Any idea how many other chemists have gone on through medicine?", we can state that we know of over 50 who have made chemistry the background for a medical career.

Now living on Chesapeake Bay, which he describes as a wonderful summer and winter resort, is **Robert C. Haring**, Ph.D. '33, project administrator with Olin Mathieson Chemical Corp., Baltimore.

Allied Chemical's project leader **Robert L. Harris**, Ph.D. '51, told us that he had moved into a new house in 1953. The Harris family consists of Susan, 5, and Roger, 3.

The **Walter H. Hartung's** Ph.D. '26 oldest son Homer last September was completing work at the University of North Carolina for the Ph.D. with a major in theoretical physical chemistry. Richard, their second son, after time out for a tour of military service, is studying for an advanced degree in physics at the University of Michigan.

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Texas Company, Beacon, N. Y., are Badger chemists **George B. Hatch**, Ph.D. '39, who is supervisor of technical literature, Research Department, and **R. E. Conary**, Ph.D. '38, who is supervisor of research coordination. **P. S. Stutsman**, Ph.D. '38, at last reports, was on special staff assignment in the New York office. His address: 135 East 42nd Street.

**Donald C. Hay**, B.S. '43, is section manager of the Raw Materials Department of B. F. Goodrich Co.; his home address is R. 2, Clinton, Ohio. (Thanks for the "orchid." HAS.)

Denverite **Douglas G. Heberlein**, B.S. '38, chemist in Dow Chemical's Rocky Flats plant, still deems Wisconsin the apple of his eye, but also finds Colorado a "wonderful place to live, its scenery beyond description and recreation facilities plentiful."

After he had acquired his degree **Robert J. Heckly**, Ph.D. '51, spent a year in Denmark under the auspices of the United States Department of Agriculture, studying foot and mouth disease from the standpoint of the electrophoresis and serology of its virus. He is now with the University of California as research associate bacteriologist in its Naval Biological Laboratory in Oakland.

**George W. Heise**, B.S. '09, and M.S. '12, has joined that small but distinguished group of Badger chemists whose outstanding researches in their respective fields of concentration have been recognized by the presentation of medals. In his case it is the 1954 Acheson Medal. Now retired as associate director of research for the National Carbon Research Laboratories, after 34 years of service with the parent company, he has a record of some 80 patents and about 15 papers to his credit. In the background of his life work at National Carbon will be found short periods of instruction at Grinnell College, at DePaul University—here he headed the newly organized Physics Department and "doubled" in chemistry—at our Alma Mater as teaching assistant, a four-year affiliation as a physical scientist with the Philippine Bureau of Science, and then service as a captain in the utilities department of the Quartermaster Corps stationed at Camp Grant, Ill., during World War I days.

**Thomas T. Hill**, B.S. '38, severed his 14-year connection with the Edwal Laboratories, now Ringwood Chemical Corp., and on April 1, 1954, became director of photographic research with the Philip A. Hunt Co., Palisades Park, N.J. He is also consultant on photographic chemistry to Air Research and Development Command, Baltimore.

**J. Bruce Hoertz**, Ph.D. '48, is a research chemist with B. F. Goodrich Co., at its Research Center in Brecksville, O.

**Paul F. Hoglund**, Ph.D. '45, describes his present job at du Pont's Grasselli Chemicals Department as concerned with the development of markets for their new silica products now being commercialized.

Another du Pont employee is **H. H. Holmes**, Ph.D. '34, who is assistant director of the Burnside Laboratory, Penns Grove, N. J.

**Ray C. Houtz**, Ph.D. '32, resigned his position with du Pont about a year ago to become research director for Toni Co., Merchandise Mart, Chicago.

**W. S. Hubbard**, Ph.D. '12, sometime assistant in chemistry, has retired after having lived in California for 14 years. The Hubbard's are living in Woodville, Ohio.

**Richard H. Hunt**, M.S. '47 and Ph.D., '49, is a research chemist with Shell Oil Co. in Houston, Tex. The Hunt's became the parents of a boy, Earl Richard, on August 18, 1954.

**Harry N. Huntzicker**, Ph.D. '32, is vice president in charge of research with United States Gypsum Co., Chicago. He is a director of American Standards Association, a member of the Building Research Advisory Board, National Research Council, and a member of the Evanston (Illinois) School Board. The Huntzickers and their two sons, 11 and 15 years, respectively, are enthusiastic water skiers.

**Glenn E. Irish**, Ph.D. '50, is a project leader with Ethyl Corp., Detroit. He is the father of two daughters, Joan, 4, and Shirley, 3.

**Seymour L. Isenberg**, B. S. '49, is assistant plant manager with Boston Distillers, Inc., Boston. His present position, which dates from May '54, is a promotion from that of chemist.

**Elmer R. Johnson**, Ph.D. '40, a graduate of South Dakota State College, B.S. '33, is back on the Brookings campus; and now as an assistant professor.

**George O. Johnson**, Ph.D. '31, heads the Science Department at Culver Military Department, Cul-

ver, Ind. His extra-curricular activity appears to be the planning of a new science building for CMA.

**Harold G. Johnson**, Ph.D. '41, is director of General Development, Research and Engineering Division, with Monsanto Chemical. The Johnson family has lived in six houses within the last several years because of intra-company transfers. At last reports they were back in St. Louis after a 11-month residence in the Bay area of California. They, too, like Wisconsin as a vacation spot, and spent last summer at Waupaca Lakes.

After getting his bachelor's degree, Ph. D. '47, in chemistry, **Kenneth G. Johnson** went on to add a master's in journalism. He is now working full time at the United States Forest Products Laboratory in Madison where he is a science writer and editor but "whittling at a doctorate in mass communications" at our Alma Mater.

**Neal J. Johnson**, Ph.D. '34, is Manager of Development of National Carbon's Electric Division in Niagara Falls, N. Y. Two children, a son 12 and a daughter 14, comprise the Johnson offspring.

**Paul R. Johnson**, B.A. '34, went on to Minnesota to capture his Ph.D. degree in '38. He is now a research division head with du Pont. The Johnson's have four children who range in age from 17 down to 5 years.

**Robert O. Johnson**, B.S. '44, transferred to our Medical School upon graduation and earned his M.D. in '48. He is now a general practitioner in Battineau, N. D.

**Thomas O. Jones**, Ph.D. '37,, has succeeded Professor William B. Meldrum as chairman of the Chemistry Department of Haverford College. Dr. Jones was "back home" on leave of absence this past year and served as a project associate to Professor Willard.

**Richard E. Juday**, Ph.D. '43 is associate professor of chemistry at Montana State University, Missoula.

**Kenneth E. Keller**, B.S. '51, is in the employ of Oscar Mayer and Co., Madison. Married in '51 to the former Ann Frederick of Beloit, he is the father of two sons born in '53 and '54, respectively.

**Robert N. Keller**, B.S. '51, is continuing his studies at Wisconsin, with an M.D. as his objective.

The Rohm and Haas technical staff includes a sizeable number of Badger chemists. Among them is **Robert L. Kelso**, M.S. '41 in plas-

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tics. The four-children Kelso family lives in Yardley, Pa.; their dad works in Bristol.

**Raymond J. Kepfer**, Ph.D. '30, is another du Pont man with a Chicago address; his station, Industrial Product Development and Service. Son Donald who has seen service in the United States Airforces is now studying metallurgical engineering in Lyons Township Junior Colleges, and daughter Margaret is a kindergarten teacher in Seattle, Wash.

**G. Brooks King**, Ph.D. '31, holds a professorship of chemistry in Washington State University, Pullman, and is director of Freshman chemistry.

**Scott L. Kittsley**, B.S. '42, is another alumnus who made his chemistry training a stepping stone for a higher degree elsewhere. A Western Reserve Ph.D. '45, he is now an assistant professor at Marquette University.

**Donald A. Kita** earned two degrees at Wisconsin, B.S. '44 in chemistry and Ph.D. '51, biochemistry. He is now a research biochemist with Charles Pfizer and Co., Inc., Brooklyn, N.Y.

**Robert S. Klang**, B.S. '48, described himself as a tire construction man (United States Rubber) "with three kids, a big mortgage; but no ulcers as yet." Development engineer Klang works in Detroit and lives in nearby Royal Oak.

**David Klein**, Ph.D. '10, a two-degree graduate of Illinois before he came to Wisconsin to assist in the instruction of freshmen, is general manager of the Wilson Laboratories, Chicago. During the decade after graduation he served Wisconsin for a while as assistant professor, then his native Illinois as State Chemist, and then his country as captain and finally as major, Sanitary Corps, United States Army. A one-year turn as associate professor of biochemistry in Johns Hopkins' School of Public Health and Hygiene was followed by his first association with his present employer, as technical director.

**Michael W. Klein**, Ph.D. '24, is associate professor of chemistry at Wisconsin. The Klein's have two grandchildren. Daughter Betty is a student in the University of California, L.A.

The **William E. Koerner's**, Ph.D. '49, are another husband-wife combination among our alumni. She is the former Anita J. Ziegenhagen, B.S. '45.

**Marilyn Korfhage**, whose father Roy F. is a '27 Ph.D. alumnus of Wisconsin, was among the June graduating class in home economics. Her brother Robert is a graduate student at Michigan in mathematics.

**Alexander G. Korzum**, M.S. '54, is a research chemist with Olin-Mathieson Chemical Corp., Niagara Falls.

Effective September 1, **Carl H. Krieger**, B.S. '33, Ph.D. (Bio.) '40, has resigned his position as director, General Laboratories, of the Wisconsin Alumni Research Foundation to become the director of Basic Research at Campbell Soup Co., Camden, N.J.

**Gordon J. Krueger**, B.S. '41 and, later, M.S. '49, Washington State, is a technologist with American Can Co., Research and Technical Department, Maywood, Ill.

**James Krueger**, B.S. '49, is now with Dow after finishing a Ph.D. at M.I.T. and a postdoctorate at Harvard Medical School.

The education of two of our Badger alumni from first steps to the doctorate is marked by an interesting chain of similarities. **Vincent P. Kucski**, Ph.D. '50, and **Gerald A. Harlow**, Ph.D. '51, classmates in the same Superior Wisconsin grade school, attended the same high school there, and then became members of the student body at Superior Teachers College. Services in the armed forces during World War II over, both enrolled in the Graduate School of our University, and elected to complete their formal education under the guidance of the same professor. Dr. Kucski is research chemist with C.P. Hall Company, Chicago, and Dr. Harlow is employed on the west coast by Shell Oil Development.

After securing his B.S. '48 from Wisconsin, **John R. Kuebler** enrolled in the Graduate School of the University of Illinois and added two degrees to his strings: M.S. '49 and Ph.D. '51. John is now engaged in inorganic research at Malinckrodt's.

**Donald G. Kundiger**, Ph.D. '42, is associate professor of chemistry at Kansas State College, Manhattan. We felt complimented on learning that he dropped his subscription to a monthly magazine in order to contribute that sum to Badger Chemist. Three daughters and a son have been born to the Kundiger's.

**James W. Langston**, Ph.D. '44, holds degrees granted by three dif-

ferent schools; and his three children were each born in a different state. Bill, 11, is a native Badger, Madison his birthplace; Susan, 9, first saw the light in Delaware; and Dick, 7, is a native Texan. Their dad rates as a technical specialist with du Pont and the family lives in LaPorte.

**Elmer C. Larsen**, Ph.D. '39, is now vice president and technical director with J. T. Baker Chemical Co., Phillipsburg, N. J. His present position spells a resignation from Sylvania Electric Products, Inc., on June 1, '54 and a return to his former employer.

**Harold O. Larson**, B.S. '43, moved eastward upon leaving Wisconsin, stopped at Lafayette to add a Purdue M.S. '47 and settled down in Cambridge to add the capstone to his degrees: Harvard, Ph.D. '50. At last reports he was a research fellow there.

Ottawa's Carleton College lists among its four-man Department of Chemistry personnel assistant professor **Paul M. Laughton**, Ph.D. '50. Carleton is the youngest college in the British Commonwealth. It was founded in 1942 to give the first college year to returning veterans.

**R. W. Laundrie**, B.S. '42, is chief project engineer at the University of Akron Government Laboratories.

The big news from du Pont on June 1 was the youngest top-level executive to have been advanced to a vice-presidency and given a seat at the directors' table is Badger chemist **Samuel Lenher**, B.A. '24. He was picked for this top spot over a number of older men holding more important positions in du Pont's ten manufacturing departments. In his new position as vice president he will be adviser on research and development; and du Pont spends an astronomical sum on research annually! Dr. Lenher has been with du Pont's for 26 years.

**Geritt Levey**, Ph.D. '50, holds an associate professorship of chemistry at Berea College, Kentucky.

The current year was an eventful one for **William D. Lewis**, M.S. '47, in that he changed employers, Wisconsin Alumni Research Foundation Laboratory, Madison, to Charles F. Pfizer and Co., Terre Haute, and took on added parental duties. To Bill and Lelia Lewis was born on May 18, Barbara Elizabeth. Theirs is now a boy-and-girl family.

**Charles J. Lind**, M.S. '42, is a  
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research chemist with National Aniline Division, Buffalo.

**Wendell A. Lindbeck**, Ph.D. '40, holds a professorship in the physical sciences at Northern State Teachers College, DeKalb.

**Joseph J. Liskovec**, B.S. '21, is product and quality control manager at the LaCrosse (Wisconsin) Rubber Mills. He is serving his third term on the LaCrosse School Board, and is a member of the Board of Trustees of the library and the Executive Board of the LaCrosse Boy Scouts of America.

**John B. Lohman**, B.S. '39 and Ph.D. '52 (Brown University), has been doing operations research for the U.S. Navy since the war, as a member of the Operations Evaluation Group and Operations Research Group. This work, mostly afloat, has included a tour of duty on the staff of the Commander, U.S. Naval Forces, Far East, during the Korean War. His employer: Massachusetts Institute of Technology (DIC); his home, Arlington 6, Va.

**Sam Loshaek**, Ph.D. '50, is a senior chemist with Rohm and Haas Co.

**Virginia Lotz**, B.S. '48, is a member of the staff of the Medical Research Group at Los Alamos Scientific Laboratory. Her employer: University of California; her present position, Biochemistry Laboratory technician.

An interest in dramatics which dates back to his graduate students has never left **Alfred D. Ludden**, M.S. '23, who is now president of the Duluth (Minnesota) Playhouse, the original civic "Little Theater" in which he has been active since 1930. Alumnus Ludden teaches physics and chemistry in Duluth's East High School. The Ludden's, for the first time, joined "the grandparents club" in April '54; their sponsor, Kathryn A. Smith.

The **Roger H. Lueck**'s also have a place—it is twice earned—in our grandparent category. The senior Lueck, B.S. Carroll College '19, M.S. '21, is one of several Badger chemists to become recipients of an honorary degree. His alma mater conferred a D.Sc. upon him in '43. He is general manager of American Can Company's Research and Technical Department, New York.

**Lester G. Lunsted**, Ph.D. '42, joined Wyandotte Chemicals Corp. as a member of its Organic Research Department at the time it was

founded and has been there ever since in various capacities. Currently he is director of chemical research in the Research and Development Division.

**Donald T. Lurvey**, B.S. '38, is chief chemist with Natural Gas Pipeline Co. of America, at Joliet, Ill.

**Robert E. Lyle**, Ph.D. '49, holds an associate professorship at the University of New Hampshire, Durham.

It is a far cry from chemistry to furniture but that is the story of **Blair MacQueen**, B.A. '22, M.A. '23. He is owner of the MacQueen Furniture Association.

At the University of Notre Dame on the chemistry faculty will be found Professor **John L. Magee**, Ph.D. '39, and at Illinois assistant Professor **Howard V. Malmstad**, Ph.D. '50.

After earning his first degree at Wisconsin, **Jean P. Manion**, B.S. '43, in time acquired his doctorate at Notre Dame, '51. At last writing he was a group leader in physical chemistry with Olin Industries, New Haven, Conn.

**Rudolph Manriquez**, B.S. '49, is employed by J. Greenebaum Tanning Co., Milwaukee.

Because his case appears to be different than that of most other graduate students, we are welcoming to our Badger alumni, "on probation," **Dick R. Markwell**, M.S. (Wichita) '49. He interrupted his studies for the doctorate in January '51 to go on duty with the U.S. Army and by year's end was commissioned into the regular army. Last September Capt. Markwell was assigned to the Chemistry Department on a two-year tour of duty to secure the Ph.D. degree.

**James E. Mars**, B.S. '54, last September began graduate work at U.C.L.A. in organic chemistry. He is a teaching assistant.

**Bruce N. McBane**, M.S. '41, is with the Ditzler Color Division, Pittsburgh Plate Glass Co., Detroit. He is a supervisor in the Synthetic Enamel Laboratory. The McBane's have two daughters and one son.

**Kirtland E. McCaleb**, Ph.D. '49, is a General Mills project leader at their Minneapolis laboratories. He is in Process Development, Section of Chemical Research.

Following six years with Pittsburgh Plate Glass Co., in its Red Wing, Minnesota plant, **Willard E. McCreary**, B.S. '42, in '51 affiliated with Armstrong Cork Co., as dev-

elopment chemist in the Linoleum and Plastics Section.

**E. S. McCloud**, M.S. '35, is basic research director with S. C. Johnson and Son, Inc., Racine.

The past year has been an eventful one for **Robert J. Meyer**, Ph.D. '54. Last October he read a prize-winning paper at the Minneapolis meeting of the American Oil Chemists' Society on his studies on the halogenation of the octadecenoic acids, all of which he had synthesized. Last April, exactly one week before he was scheduled to appear on the New Orleans program of this Society, he underwent an emergency appendectomy in Chicago but appeared, nevertheless, to present a half-hour paper on another phase of his doctoral dissertation. Early in July he resigned his position with Standard Oil (Indiana) to return to the University to accept a research associateship in the School of Pharmacy.

**Ferdinand C. Meyer**, Ph.D. '43, is assistant director of research with Monsanto Chemical, St. Louis. The Meyer family which had its beginnings with Ferd. Jr. at Wisconsin has now grown to five: three girls and another boy.

For three years after leaving the Wisconsin campus, **Daniel R. Miller**, B.S. '41 and M.S. (biochemistry '43, was associated with "Plutonium Project" of Manhattan Engineering District. In '48 he acquired a Ph.D. (California), and for the next three years he held an assistant professorship of chemistry at Cornell. Currently he is associated with the U. S. Atomic Energy Commission, Division of Research, in Washington, D.C. His title: Assistant Chief of Chemistry Branch.

**Paul E. Millington**, Ph.D. '28, is another Badger chemist who added an M.D. (Marquette '44) to his list of degrees, the first of which was granted by Minnesota, B.A. '24. He has been a member of the faculty of the Milwaukee Center since '37 and now holds the rank of professor.

**Albert J. Milunaitis**, Ph.D. '51, is a member of the research staff of General Mills.

**Charles S. Mohaupt**, B.S. '33, is a technical superintendent, Aeronautical Products Manufacture, with B. F. Goodrich Co.

**Frederick F. Morehead, Jr.**, Ph.D. '53, is a research chemist with General Electric Co., Lamp Development Laboratory, Cleveland. He married the former Nancy J. Taylor

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# This 'n' That - -

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in Schnectady, July 18, 1954.

Retired five years ago after 32 years of service with du Pont, **Harold H. Morris**, a three-degree Badger chemist, Ph.D. '17, is now living in Hollywood, Florida. The absence of snow and ice and the perennial verdure of the vegetation there appear to be to his liking.

Shell Development Company's **Forrest S. Morfimer**, Ph.D. '43, describes California's Bay Area as a "hot bed" of Badger chemists. One of his more surprising chance meetings was with **Vincent DiRaimondo**, now an M.D., doing research in metabiology at the University of California Medical School.

**Samuel S. Naistat**, Ph.D. '44, is in the employ of Becco Chemical Division, Food Machinery and Chemical Corp. He is a group leader in Research and Development. His home address: 38 Brauncroft Lane, Snyder 21, New York.

At last reports **W. Robert Neuen-dorf**, M.S. '52, was with the Army Chemical Corp., Muscle Shoals Sub-Office, Sheffield, Ala.

Another Badger chemist on the list of Eastman Kodak personnel is research chemist **Philip T. New-some**, Ph.D. '26.

**M. Starr Nichols**, B.S. '16 Ph.D. (physiological) '26, is ass't director of the Wisconsin State Laboratory of Hygiene and professor of sanitary chemistry. His son, George S., is also Wisconsin alumnus; in chemical engineering.

Four years after his graduation from Wisconsin, Harvard University conferred upon **Wayland E. No-land**, B.A. '48, the Ph.D. degree. He is now an assistant professor of chemistry in Minnesota's School of Chemistry.

**Joseph H. Paden**, Ph.D. '36, has been transferred from the directorship of American Cyanamid's Stamford Laboratories to a similar position at the Bound Brook Laboratories.

**John R. Pailthorp**, M.S. '47, is a research supervisor in du Pont's Jackson Laboratory.

**Howard B. Palmer**, Ph.D. '52, holds an instructorship in Brown University.

**Paul Pavcek**, B.S. '33, has joined the staff of Lake States Yeast Corp., Rhinelander, Wisconsin. He wrote that he is "up among the Indians and the snow, happy as a flea on a St. Bernard." His new job is just his "cup of tea," he reports. It combines his training in yeast ferment-

tation and animal nutrition "with no penalties exacted for the seven years at Washington University." His present job is part of the major problem of converting sulfite waste liquor into feed for animals and food for man.

**A. A. Pavlic**, Ph.D. '42, began his career at du Pont as a research chemist. He left the Research Division five years ago for sales and is now assistant manager, Plastic Sales. In the light of our present information, the five-children Pavlic family record is equalled by only three other Badger chemists.

**S. S. Penner**, Ph.D. '46, is associate professor of jet propulsion at Cal. Tech., Pasadena.

We have learned from **F. N. Peters**, Jr., that his son, the third of the generation to carry this name, graduated from Princeton on July 15, 1954. He was married on the 25th and holds a commission in Chemical Warfare, at Ft. McClelland, Ala. His marriage created some local publicity in that both he and his wife were the third generation of each family to marry on June 25.

**Gerhard P. Pitz**, B.S. '43, is a research chemist with Shell Oil Co., Wood River, Illinois.

**Albert Preuss**, Ph.D. '52, is a group leader with Rohm and Haas Co.

**U. Carol Quarck**, M.S. '54, is a research chemist with Eli Lilly and Co., Indianapolis.

**Robert W. Radue**, M. S. '50, is a research chemist at Monsanto's Organic Chemicals Division.

**William E. Rice**, Ph.D. '52, holds the position of senior scientist with Experiment Inc., Richmond, Virginia. A daughter, Vivian Elaine, joined the Rice family on 29 August '54.

**Lawrence M. Richards**, Ph.D. '41, is assistant director of research at Stamford Research Institute, Physical Science Division.

**Phillip A. Ritter**, B.S. '15, has been associated with the rubber industry ever since he left college with an M.S. '15. He is now in charge of both the physical and chemical laboratories of U.S. Rubber Co., Eau Claire, Wisconsin. His previous employers have been Goodrich at Akron, Federal at Milwaukee, and Samson at Los Angeles.

**Inger Marie Rockne**, B.S. '54, joined Dow Chemical's staff of scientists upon graduation. Her present position is in the Micro Analytical Laboratory.

Among the several Badger chemists on the staff of Bjorksten Re-

search Laboratories in Madison is **Stanley Rohowetz**, B.S. '44. He is a senior research chemist.

**Robert W. Rosenthal**, Ph.D. '49, is a research chemist with the Sanitary Chemistry Branch, Medical Laboratories, Army Chemical Center, Maryland. While on an European trip in '52, he met **Calvin Stevens**, Ph.D. '47, in London.

**Bill F. Rothschild**, B.S. '48, is an electrochemist in the employ of Federal Mogul Corp., Research and Development, Ann Arbor, Michigan. The year '49 marks his M.S. graduation from Chicago, and his marriage. The Rothschild's twin sons are now about three years old.

We informed our readers in the preceeding issue of the Newsletter that at the time of preparing copy for the printer **E. Earl Royals** was the father of two sons. With no restraint now, we can bring the record up to date; son John Lloyd was born on November 10, 1953.

**John R. Ruhoff**, B.S. '29, completed his formal education at John Hopkins in '32. Dr. Ruhoff is now vice president and technical director with Mallinckrodt.

**William J. Russell**, Jr., M.S. '41, lists his employer as U. S. Coast Guard, Washington, D.C., and his present position as clerk-typist.

The **Safranski** family name appears twice on our alumni list. In this instance it is brothers **John C. Jr.**, Ph.D. '49, who is a group leader with Barrett Division of Allied Chemical and Dye Corp., and **Leo W.**, B.S. '37, a du Pont chemist.

**Daniel S. St. John**, Ph.D. '49, is a research supervisor with du Pont in Augusta, Georgia. His home address: 779 Broadman Road, Aiken, S. C.

**Donald F. Saunders**, Ph.D. '50, is a senior engineer with Texas Instruments, Inc., Dallas 9, Tex.

**Louis Schmerling**, B.S. '32, Ph.D. (Northwestern) '35, is one of seven alumni in our award-winning group of Badger chemists. His achievement: the first recipient of the Ipatieff prize for his fundamental researches in the petroleum field.

**William P. Schneider**, Ph.D. '50, is employed by the Upjohn Co. Kalamazoo, Mich.

**J. P. Schroeder**, Ph.D. '48, leads a research group at the Bakelite Co., Bloomfield, N.J.

**Oliver H. Schunk**, Ph.D. '26, is in the Research and Production Department of Buck-X-Ograph Co., St. Louis 21, Mo.

**Barbara Greeley Schumacher**, B.S. '52, at last report, was em-

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## This 'n' That - -

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ployed by Ciba Pharmaceutical Products, Inc., Summit, N.J.

**Clifford O. Schwahn**, B.S. '41, has been with Bakelite Division of Union Carbide and Carbon Corp., for some 12 years working in the field of raw materials for the paint and varnish industry. He is U.C.'s technical representative; his territory is one-half of Chicago; he lives in Wilmette.

**Jacob Sedlet**, B.S. '44, in time added a Ph.D. (Purdue, '51) to his first degree. He is now on the staff of Argonne National Laboratory.

**Elmer L. Severinhaus**, B.A. '16, M.D. (Harvard) '21, is vice president for clinical research with Hoffman-LaRoche, Inc. He is also director for endocrinology and metabolism at Jersey City Medical Center and clinical professor of medicine at New York Medical College. Sons John Wendell and Edwin Colby have also achieved M.D. status.

**Paul R. Shafer**, Ph.D. '51, is an assistant professor of chemistry, Dartmouth College, Hanover, N.H.

**Rubin Shapiro**, Ph.D. '53, is on the research staff of American Can Co., Maywood, Ill.

**L. I. Shaw**, Ph.D. '11, was, in turn, an educator, an officer in World War I, and an employee of the U.S. Bureau of Mines before applying his talents in industry, has retired and is making his home of Club Del Mar, Santa Monica, Cal. He lists himself as a consultant on high-temperature ceramic bodies and enamels for aircraft parts. He was an instructor in general chemistry from '09-'11. His son, a naval aviator, has presented him with four granddaughters.

**Robert Siegfried**, Ph.D. '52, has left Boston University and is now at the University of Arkansas where he is an assistant professor of chemistry "carrying on the Ihde tradition in the history of chemistry."

**Marvin W. Skougstad**, Ph.D. '49, is an associate professor of chemistry at St. Olaf College. Dr. Skougstad answered some wishful thinking on our part when we wrote the article on "Oles" by calling attention to some omissions, to the list. Forgotten Ph.D. "Oles" are: **Archibald Bolstad**, '51; **Howard J. Glenn**, '48; **Henry J. Seim**, '49; **Alvin G. Winger**, '51.

**J. Harold Smith**, Ph.D. '41, is professor of chemistry at the University of Massachusetts, Amherst. The Smith's are one of the few

five-member Badger chemist families of which we have knowledge.

**Thor L. Smith**, Ph.D. '48, moved about a year ago from Hercules Experiment Station, Wilmington, to Pasadena, Cal., where he is serving Cal. Tech's Jet Propulsion Laboratory as a senior research engineer.

The three mile-stones in the course of the college training of **Willard F. Spengeman** are marked: B.S. '30, M.S. (Purdue) '31 and Ph.D. '35. He is a member of the du Pont technical sales staff (pigments) and is living in Summit, N.J.

**Ellen L. Spatz**, Ph.D. '50, informed us that most of her time, as a housewife, is spent "coping with the entropy increase caused" by her toddler son.

**James M. Sprague**, Ph.D. '34, is Sharp and Dohme's assistant director of laboratories in West Point, Pa.

**Marshall R. Sprinkle**, Ph.D. '32, is manager of Shell Chemical Corporation's Development Department, New York 20. He returned to his present station in '54 after a temporary two-year term as plant superintendent of Shell's Denver plant.

**Charles L. Stachel**, B.S. '41, has spent all his time since graduation in the adhesives field. He is now a sales representative for Rubber and Asbestos, Corp., Bloomfield, N. J.

**Alfred J. Stamm**, Ph.D. '25, subject matter specialist in wood chemistry at the U. S. Forest Products Laboratory, and his family have left Madison for a year's stay in Australia where he will conduct research at the Australian Forest Products Laboratory. Stops will be made enroute to Melbourne, where he will be stationed for nine months, in Honolulu and Sydney. Following their stay in Australia the Stamm's will return by way of Europe visiting, among others, Italy and the Scandinavian countries.

**Clyde Stanley**, Ph.D. '43, is a group leader, applied surface chemistry, with American Cyanamid Co., Stamford, Conn.

When **Herbert C. Stecker**, B.S. '39, left Madison it was, apparently, not with the thought that he had completed his education. He subsequently enrolled in the University of Cincinnati to add M.S. '40 and Ph.D. '42. In November '53 he organized his own company of which he is president to sell industrial and agricultural fungicides and bactericides.

**Arthur B. Steele**, B.S. '41, Ph.D. (Pittsburgh) '49, is a senior fellow (Carbide and Carbon Chemicals Co.) at Mellon Institute.

Another father-son Badger chemist combination is that formed by **Bruno A. Stein**, M.S. '23, and his son **Jolyon A.**, B.S. '50. The senior Stein is vice president of Marshall Dairy Laboratory, Inc., and his son, Ph.D. '54, food industries, is head, Food Chemistry Research Section of Pillsbury Mills Co., Minneapolis.

**Charlene Steinberg**, M.S. '48, is instructor in chemistry, University of Wisconsin Extension Center, Sheboygan.

The month of September marks the 36th anniversary of the beginning of **William Steriker's**, B.S. '17, Ph.D. (Pittsburgh) '22, work on silicates; first on a fellowship at Mellon Institute and then with Philadelphia Quartz Co.

**Max H. Stern**, Ph.D. '45, is a research chemist with Distillation Products Inc., Rochester, N. Y.

**John D. Stockham**, B.S. '49, is employed by Standard Oil, Indiana, in its technical service laboratory and is currently working on waste-disposal problems.

**Hosmer W. Stone**, Ph.D. '21, is professor of chemistry at University of California, Los Angeles.

**Albert W. Stout** Ph.D. '34, is a research chemist with Western Pine Association, Portland, Ore.

**Roger A. Strehlow**, Ph.D. '50, is a physical chemist at the Ballistics Research Laboratory, Aberdeen Proving Ground, Md.

**Marjorie Huber Svoboda**, B.S. '43, M.S. '47 combines care of two small daughters with the teaching of chemistry and psychology to nursing students at Indianapolis General Hospital. Her husband, Gordon, Ph.D. pharmacy '49, is employed at Eli Lilly.

**Donald L. Swanson**, Ph.D. '51, holds a research chemist's position with American Cyanamid Co., Stamford, Conn.

**Harold Tarkow**, Ph.D. '39, is a section head in physical chemistry at the U.S. Forest Products Laboratory. The Tarkow family consists of two sons, aged 5 and 10, respectively.

**Wesley A. Tarwid**, B.S. '50, is in the employ of American Can Co. The Tarwid's have three children.

**Bryce E. Tate**, Ph.D. '50, is a research fellow in chemistry at Harvard University.

**William H. Taylor, Jr.**, B.S. '37, (continued on page 15)

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**Ph.D. (Illinois) '41**, is a supervisor in the Chemical Department of du Pont's Analytical and Physical Division, Wilmington.

**Charles C. Templeton**, Ph.D. '48, is with Shell Development Co., Houston. His is a three-son family. At last reports he was scheduled to become the commanding officer of Naval Research Reserve Company's Central Research Division.

**Hugh L. Templeton**, Ph.D. '25, has been with Fairmont Foods Co., Omaha, as technical director since 1940.

**H. G. Tennent**, Ph.D. '42, is the manager of Hercules Powder Company's Central Research Division. The boy-and-girl Tennent family lives in Kennett Square, Pa.

**Ralph E. Thompson**, B. S. '43, is the district manager, industrial chemical sales, with Ansul Chemical Co., Philadelphia.

**Warren E. Thompson**, B.S. '51, is pursuing graduate studies in chemistry at Harvard.

**W. S. Thompson**, B.S. '29, is director of the laboratories of the Ohio Department of Agriculture, Reynoldsburg.

The date September 8, 1954 marked a mile-stone in the affiliations of **E. A. Thronson**, B.A. '29, with du Pont in that it was then that he moved from the position of assistant director, Research Division, to manager, Planning Division, Electrochemical Department.

**George G. Town**, Ph.D. '22, is chairman of the Department of Chemistry of the University's Extension Division in Milwaukee.

**A. T. Trimble, Jr.**, Ph.D. '52, is assistant professor in the School of Chemistry of his alma mater, Georgia Institute of Technology which granted him his first two degrees.

**Charles W. Tullock**, Ph.D. '38, is a member of the staff of du Pont's Experimental Station, Wilmington.

**Ralph F. Turner**, B.S. '39, is associate professor in the Department of Police Administration, Michigan State College, where he has been since '47. At last reports he was on sabbatical leave doing graduate work at the University of Southern California, Los Angeles.

**Doyle C. Udy**, Ph.D. '50, is an associate chemist, research, with the Wheat Quality Laboratory of Field Crops Research Branch, A.R.S., U. S. Department of Agriculture, Pullman, Wash.

**Valdemar Vanselow**, Ph.D. '26, is a research associate with Eastman Kodak Co.

**Maynette Vernsten**, M.S. '48, is a research chemist at Abbott Laboratories, North Chicago.

**Henry A. Vogel**, Ph.D. '41, is a research supervisor at the new Research Center recently opened by Pittsburgh Plate Glass Co., at Springdale, Pa.

**Howard M. Waddle**, Ph.D. '40, heads the chemical department of West Point Manufacturing Co., Shawmut, Ala.

**Philip M. Walters**, Ph.D. '42, is in the employ of du Pont in the Textile Fibers Department and serves as manager of Industrial Sales Development.

Retirement from his 27-year tenure as head of the Chemistry Department of Colorado's School of Mines, Golden, brought to a close the career, as educator, of **Leon S. Ward**, Ph.D. '26. Beginning with a six-year term as a Colorado high school teacher of science, his is a career that was interrupted in '18 by a brief association with industry and resumed in '19 with time out in '24 for graduate studies at Wisconsin. Except for the first year after graduation, when he was a staff member of Michigan's School of Mines, he had spent his entire time since becoming a Badger chemist at Colorado.

Another du Pont is **Arthur G. Weber**, Ph.D. '30, of their Polychemicals, Department. Dr. Weber is manager, Administrative Engineering of the department in question.

**Samuel Weiner**, Ph.D. '36, holds an assistant professorship in the University's Extension Center at Wausau. Of his family he reported that his wife has a B.A. in sociology from the University of California, Los Angeles; that they have two sons—one majors in turtle-catching and frog-raising, the other in doing statistical research on the Braves—and that they have a daughter "who is merely beautiful." Dr. Weiner spent the summer of '55 on a research appointment in the Department.

**Mortimer R. Weiser**, B.S. '44, is production foreman, Chemical Division with Wallace and Tiernan, Inc., Beleville 7, N. J. He is married to the former Jean Robinson, B.A. Adelphi College, '45. The Weiser's "have two active molecules, Gail Susan, 4, and Carol Ann, 2, and two Siamese cats a la the Fieser's of Harvard."

**Earl L. Whitford**, Ph.D. '24, be-

came a grandfather on February 23, '54 via his daughter Nancy who had married Englishman R. J. Dudding of Drustwich. Last September the president of Oldsbury Electro-Chemical Co. (ELW) flew to England on international business and incidentally (?) to see little Karen Doris; and her parents, of course.

Professor **Wyatt C. Whitley**, Ph.D. '39, spends the school year in teaching and research at Georgia Institute of Technology and the summer months at Oak Ridge National Laboratory.

**Hugo J. Wichmann**, B.A. '05, was a campus visitor last June attending the fiftieth reunion of his class. Now retired from Federal service, he has recently been asked to be the American member of a commission of the International Union of Pure and Applied Chemistry to study the determination of metals in foods and to recommend analytical methods for use in international trade.

Another Badger chemist on the retired list is **James E. Wildish**, M.A. '15. Since his retirement as chairman, Department of Chemistry, Junior College of Kansas City, Mo., he has filled several part-time positions in industry.

**Richard H. Wiley**, Ph.D. '37, is chairman of the Department of Chemistry, University of Louisville.

**Frank S. Williamson**, Ph.D. '54, is instructor in chemistry at Dartmouth College.

**J. W. Windhauser**, Ph.D. '39, is assistant superintendent of marine operations with Standard Oil Co., (Ind.)

**Clarence H. Winning**, Ph.D. '32, is a research chemist in du Pont's Eastern Laboratory of the Explosives Department at Gibbstown, N. J.

**Earl H. Winslow**, Ph.D. '29, is a research associate with General Electric Co., Schenectady, N.Y.

After five enjoyable years of seeing the country with du Pont, **John F. Wintermantel**, B.S. '40, decided to settle in the upper Midwest. Minneapolis is his present abode; General Mills his employer. He is the leader of the Analytical Section, Products Control Department. The Wintermantel's have one son and three daughters.

**Lloyd Withrow**, Ph.D. '25, heads the Fuels and Lubricants Department of General Motors Research, Detroit 2.

**Carl F. Wolf**, B.S. '49, is a re-

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## This 'n' That - -

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search chemist with American Cyanamide Co., Pearl River, N.Y.

**James M. Wood, Jr.**, Ph.D. '32, research chemist with Emil Corp., reported the arrival of Maura Blythe on August 29, '54.

**Hans Wynberg**, Ph.D. '52, holds an assistant professorship at Grinnell College, Grinnell, Ia.

**Ruth Zeitschel**, Ph.D. '50, is one of several Wisconsin alumnae in the employ of Rohm and Haas Co.

**C. Douglas Zinke**, B.S. '49, is a salesman with Lakeside Laboratories, Inc., of Milwaukee.

**Walter Zophy**, B.S. '39, M.S. (Ohio State) '40, is employed by the Pittsburgh Plate Glass Co. The Zophy's have five children; and that number appears to be tops for family size among our Badger chemists. Are we in error??

## Chemistry Building Has A "Hot" Room

One of the "hottest" spots in Wisconsin is the recently constructed 15' x 15' x 8' underground room now housing the Department's high-level radiation sources. It is located directly northeast of the east side door of the building and is entered through the basement. A one-ton crane is provided for aid in moving heavy lead shielding from one part of the room to another. Two six-foot deep holes in the floor furnish convenient temporary storage space for highly active samples and a smaller storage facility in the floor is used for storage of reserves of various radioactive tracers.

The most intense sources in the room are a 400 curie cobalt-60 gamma-ray source, a similar 30 curie source, and a 10 curie Sb-Be photo-neutron source. The cobalt-60 sources are used for studies of the mechanisms of decomposition of organic compounds by gamma radiation while the neutron source is used for studies of chemical reactions initiated by radiative neutron capture. All three of these sources are housed and used in lead shields, designed in the Department. The 400 curies of high specific activity cobalt (which cost about \$3600) is more than equivalent in radiation intensity to 400 g. of radium (which sells for about \$25,000 a gram.)

Graduate students under the direction of Prof. J. E. Willard are attacking some of the basic problems involved in turning the atom to

peaceful tasks. Some 20 different research groups are working in 15 departments of the University on some phase of "hot atom chemistry."

### Other Building Changes

Alumni visitors to Madison will note an addition to the northwest corner of the Chemistry Building. However, none of this space will be available for chemistry since the pharmacy department is putting up the addition which will be ready for occupancy this fall. The space will actually provide no real relief from the congestion in the Chemistry Building since the addition merely provides pharmacy with space that they will lose when their "temporary" structures are razed to make way for a new women's dormitory at the corner of Park Street and University Avenue.

New construction for chemistry appears to be in the remote future although everyone still keeps hoping. The hazardous nature of the old central portion of the building was again emphasized last spring when a portion of the first floor gave way under the weight of a truck carrying Dr. Willard's new radioactive cobalt supply. This portion of the building is extremely hazardous and it had been hoped that it could be replaced before the heavy influx of students anticipated in a few more years.

### WAY BACK WHEN

Excerpts from the remarks of Dr. Schuette at the retirement banquet.

#### 100 Years Ago—1955

The subject of chemistry went untaught. Dr. Stephen P. Lathrop, the first professor of chemistry and natural history, died the previous September after a tenure of only eight months. He had previously held a similar chair at Beloit College where he had been active since 1849 in educational, medical, and agricultural circles. He had come to Wisconsin from the East where he had been trained in medicine and had been teaching science.

#### 75 Years Ago—1880

Chemistry achieved the dignity of a specialty with the creation of a chair of chemistry independent of any other science. Up to this time chemistry had been taught by a professor who also taught natural history, physics, or agriculture. Professor W. W. Daniels in 1880

## Henke, Haskins, Davis

Friends of Lee Henke, longtime mechanic for the chemistry department, will be happy to know that Professor Bender's campaign for funds to provide him with a television set has been a real success. The set has been purchased and will be presented to him as soon as controls which can be operated from the bed have been installed.

Though unable to leave his home at 2806 Gregory Street, Lee continues to be interested in the many friends he had while with the chemistry department and appreciates hearing from them.

Other former departmental employees who like to hear from alumni are **L. P. Haskins** and **James B. Davis**. Mr. Haskins gets around occasionally despite the handicap resulting from a broken hip several years ago. He lives at 1008 Yale Road in Madison.

Jim Davis retired as glass technician several years ago and now resides in Phoenix, Arizona, at 3337 East Mitchell Drive. He is an enthusiastic supporter and appreciative recipient of Badger Chemist.

severed his connection with the agriculture course and gave his full time to chemistry. His first graduate assistant was Charles Van Hise who later took his Ph.D. in geology and in time became the University's president.

#### 55 Years Ago—1900

The department had now grown. Besides Prof. Daniels it included Homer Hillyer teaching organic chemistry and Louis Kahlenberg teaching physical chemistry. The first Ph.D. had been granted two years earlier to A. T. Lincoln for studies on solution chemistry under Kahlenberg.

#### 30 Years Ago—1925

The department was now in the hands of Prof. Mathews as chairman and included professors Krauskopf, Walton, and Kahlenberg in general chemistry, Lenher, Kemmerer and Schuette in analytical, Fischer, Adkins, Klein, and McElvain in organic, and Mathews and Daniels in physical. Graduate work was now flourishing.