



Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 4 Summer 1956

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BADGER CHEMIST

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

NEWSLETTER 4

SUMMER, 1956

Badger Chemist Dedicates This Issue To the Chemistry Faculty

Robert A. Alberty

Professor



Exactly 12 years ago Kansas-born Bob Alberty, armed with two Nebraska degrees, B.S. '43 and M.S. '44, arrived on the campus to serve as a research assistant to Prof. J. W.

Williams who was then directing a government-sponsored study of interest to the Committee on Medical Research, OSRD. His first year after acquiring the doctorate was spent as an instructor; in 1948 he was made an assistant professor; in 1950 he was advanced another step, and in 1956 came promotion to a full professorship. A Guggenheim fellowship in 1950 took him to California Institute of Technology for a year. Last March he became the sixth alumnus of the Department to become the recipient of one of the several \$1000 awards administered by the American Chemical Society. His research interests are: electrophoresis of proteins, ionization constants and complex stability constants of phosphates, and the kinetics of enzymatic reactions.

Our Newest Alumni

Exactly 75 names have been added during the past academic year to the Department's alumni list. Of this number the doctor's degree was conferred upon 34 graduate students, or one less than last year; 28 seniors, inclusive of nine Chemistry Course graduates, received the bachelor's degree; and to 13 was awarded the master's.

The Ph.D. degree was conferred at three different times during the year. The August 1955 group contained the names of 11 Badger chem-

ists: Irwin H. Billick, Edward C. Boycks, John S. Dahler, Carl Frieden, Stanley T. Hirozawa, Reed A. Howald, Jack H. Jefferson, Wm. F. Johns, James J. Leddy, Maurice Shamma and Ernest F. Silversmith.

The January 1956 class consisted of 13: John S. Baran, Walter R. Benn, Robert E. Bunde, Robert P. Frankenthal, Henry S. Gates, George Gioumousis, Jack D. Graybeal, Hisashi Kubota, Warren E. Lux, Phillip H. Parker, Jr., Wm. F. Rumpel, Bernard S. Schlessinger and John R. Soulen.

The ten in the June class brought the Department's total to 863 doctor's degrees conferred over a 57-year period. The names of the successful candidates: Frederick Baumann, Hans J. Borchardt, Peter E. Graf, Evalyn O. Hornig, Claire E. Hummel, Ellington M. Magee, Dick R. Markwell, G. Robert McKay, Jr., Allen K. Prince and W. David Wood.

For want of data—they will be assembled later—statistics with respect to the master's degree are incomplete except for the record that Wesleyan University graduate, Horace Gibson, won an M.S. in chemistry as early as 1886, that he later enrolled in Chicago Medical College from which he graduated in '92, after which he practiced medicine in Sheldon, Ill. Graduating at the close of the 1955 summer session were masters John F. Holland, Etsuo Saito, Perl M. Snitker and Moung Htain Win. A like number received their degree in January, 1956. Their names: Benny L. Beck, Joseph A. Gailey, James P. Kutney, and Sirhatti V. Rao. And at semester's end the list was increased by five: George T. Hildahl, Theodore J. Kitze, Gabrielle S. Koehler, John E. McNary, and Kenneth V. Siebrasse.

The bachelor's degree was conferred upon three different groups. The B.S. of the Chemistry Course accounted for nine; majors receiving a B.S., general course, totaled 12; and the B.A. degree went to seven seniors. In the first group

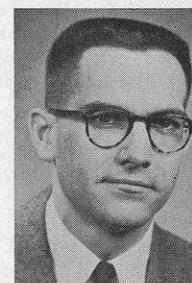
(continued on page 2, col. 1)

On the following pages Badger Chemist presents the 25 active members of the professorial staff and the three who have reached emeritus status, the end of the academic trail of all educators. The statements which follow are, for the most part, biographical although in a few cases trespass in the thumb-nail sketch area has been attempted. It may be of interest to call attention to the fact that three periods in the Department's past, with respect to chairman, are represented on the present staff. Two members began their services during the Kahleberg days and all except four were appointed during Dr. Mathews' administration. Wisconsin is represented by the largest number of Ph.D.'s. Harvard and Stanford are the only other schools with more than one Ph.D. representative among the staff personnel.

Badger chemists may well be proud of the record which the staff has made; and they can be sure of the future. The old order is gradually changing, to be sure, and, in giving way to the new, the excellent reputation now enjoyed by our University because of the staff appears to be in no danger of deteriorating.

C. Daniel Cornwell

Assistant Professor



With two diplomas from Cornell, B.A. '47 and M.S. '49, in his possession, Dan Cornwell enrolled at Harvard for more graduate study. As a student of E. Bright Wilson, Jr., he won his Ph.D. degree in '51 and then, after two years at Iowa, started his climb up the Wisconsin academic ladder from an instructorship. He reached the first rung in 1954. His research interests are: microwave spectroscopy of gases and quadrupole spectra of solids.

BADGER CHEMIST

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UNIVERSITY OF WISCONSIN

8

The Editor's Column

We are pleased to give you, Badger chemistry alumni, the fourth newsletter from the scene of your one-time college home where, with rare exception, you prepared yourself for your life work. This issue of Badger Chemist, like its predecessors, has been made possible, not by the use of public funds—we could never get approval for such a request—but with the assistance of some 450 of our alumni. To those of you who sent us steel engravings of George Washington or Abraham Lincoln of the expendable type, or their equivalent in the form of a check, we here express our thanks and appreciation of our efforts at improving our "public relations" with our alumni via a newsletter. Our thanks and appreciation go, also, to those of you who supplied us with the material which we wove into the This 'n' That columns.

Shall we have a 1957 issue of Badger Chemist? We make bold to suggest, if your answer is in the affirmative, that you count your blessings as chemists and give us your moral and financial support. The money on hand hardly justified our ambitious attempt in making this issue a pictorial one, but we went ahead with the project in the faith that our chemistry alumni would not fail us when the "chips were down".

—H. A. S.

Newest Alumni --

(continued from page 1) were: Donald J. Biechler, Jon T. Hougen, Paul T. Kindel, Peter M. Livingston, Richard Thomas Meyer, Manfred G. Reinecke, Robert R. Seybold, Lee F. Thompson, and Duane F. Zinkel. The superior academic records of Hougen and Meyer brought them National Science Foundation fellowships. Bessie Tan received a B.S. general course, in January 1956, and 11 others com-

pleted the same course at year's end. June graduates in the same category were: Dolores Anne Boek, Sheldon Hersh Cohen, Donald David Donermeyer, Richard A. Falk, Daniel P. Gilboe, John Calvin Haarsma, John Robert Jacobson, Leslie Michael Klevay, Jr., James Michael Schuck, Wm. Leslie Welch, and Adolph Y. Wilburn. The B.A. graduates were Wah Yip Chan, Elizabeth J. Cooper, Donna L. Daentl, Thomas J. Katz, George Edgar Leroi, Dale R. Rheineck, and Barry Neal Stein. NSF fellowships were won by Katz and Leroi. The former won also the American Institute of Chemists student medal award.

STAFF NEWS

The names of six staff members of the Department and their graduate students were found among the list of those participating in the program of the Dallas meeting of the American Chemical Society last April. All of them were scheduled to read a paper and one of them, physical chemist Robert A. Alberty, was presented by the Society with the Eli Lilly and Company Award for the excellence of the quality of his contributions to the field of biochemistry. Others on the program were Professor Daniels, Ihde, King, Margrave and Willard.

Three staff members of the Department co-operated last semester with the University's Extension Center in Wausau in the presentation of a series of lectures devoted to recent advances in analytical chemistry. The speakers and subjects were: Prof. W. J. Blaedel, Radioactive Tracers; Prof. Daniel L. Leussing, Spectrophotometry, presented in two parts; Prof. Irving Shain, Electrochemical Analysis. Prof. Marvin J. Johnson, biochemistry, closed the series with a lecture on chromatography.

The extra-curricular activities of Prof. Farrington Daniels during the past 12 months include, among others, two memorial lectures, a convocation address, participation in two major conferences and the dedication of a commercial research laboratory, and appearances before several audiences on the west coast and one in Washington, D. C., at which the National Academy of Science was host. A year ago last August he was one of some 183 technical advisers in the U. S. delegation at Geneva attending the International Conference on Peaceful Uses of Atomic Energy. In October he summarized for the Wisconsin Section of the ACS the work of that con-

Paul J. Bender

Professor



Paul Bender was born in Mansfield, Ohio. With a B.S. '39 and a Ph.D. '42, he is Yale's only Ph.D. contribution to the chemistry staff, and, in fact, is one of the six active products of the Ivy League in the Department. He arrived on the Madison scene as an instructor in 1942, was advanced to an assistant professorship in 1945, was moved up a step in 1948, and reached the top rung of the academic ladder in 1955. An adept at designing and making special apparatus to fit his experimental needs, his current research interests are: thermodynamic properties of solutions, vapor pressures of liquids, and Raman spectroscopy.

ference and by month's end he gave the opening address at the Conference on Solar Energy at Tucson and Phoenix, Arizona. He was the featured speaker at Wisconsin's mid-year convocation with an address entitled The Challenge of Abundant Energy and later in the semester he participated in the program of the Freshman Forum with a lecture, Fuels of the Present and Future. He spent his "free" time during the spring recess addressing audiences in three cities from Portland, Ore. to Los Angeles. At the latter he gave the first lecture in a new course offered at the University of California on solar energy. Early in March he gave the William Albert Noyes memorial lecture at the University of Illinois and late in May he did a like honor in Baltimore to the memory of Ira Remsen. In both instances solar energy provided the theme for his discourses.

Prof. John D. Ferry's engagements since January included participation in the Wausau Extension-sponsored series of lectures on recent developments in pulp and paper chemistry and technology with a lecture on elasticity relaxation and Brownian motion; participation in the 25th annual meeting of the American Institute of Physics in New York with a paper on the subject of mechanical relaxation spectra and friction coefficients and their dependence on polymer structure; presentation of a lecture at the February meeting of the Wisconsin Section on the rheology of polymer sys-

(continued on page 3, col. 1)

Staff News --

(continued from page 2)

tems; participation in the Pittsburgh meeting of the American Physical Society with three papers under joint authorship with some of his graduate students; participation in the Oak Ridge-sponsored bimonthly conference in Gatlinburg, Tennessee; and presentation of a paper at Argonne National Laboratory on the subject of rheological phenomena in polymers.

Prof. J. O. Hirschfelder demonstrated his stamina as a lecturer-traveler early in February when in one week he spoke to six different audiences in the East. At month's end he read a paper at the Los Angeles meeting of the American Institute of Chemical Engineers.

Prof. Aaron J. Ihde has completed his second year as chairman of the University's Student Conduct and Appeals Committee, and first year as chairman of the committee on the Freshman Forum. This is a one-credit lecture-discussion course that may be elected in either or in both semesters of the freshman year. The general theme of last year's first-semester lectures was America and the Modern World; that of the second, Science: Achievements and Problems.

Last May Professor Ihde lectured, by invitation, at Bowling Green State University, Ohio; his subject, "The Basic Principles in General Education Science Courses". He also served as consultant to the science faculties there.

Prof. E. M. Larsen conducted a seminar at Beloit College during the months of March and April on the more advanced aspects of inorganic chemistry.

Three out-of-town speaking engagements were filled by Prof. John L. Margrave this past year. Last October he read a paper at the meeting of the American Ceramics Society, Penn. State; the following March he participated in a conference on unstable chemical species which was sponsored by the New York Academy of Science; and in June he read a paper in Berkeley before a symposium on high temperature, tool for the future, held on the campus of the University of California.

The S. M. McElvains attended the International Congress of Pure and Applied (Organic) Chemistry in Zurich, in the summer of 1955 after having first made a tour of the British Isles by car and a stop-over in Germany for a visit with relatives

Walter J. Blaedel

Associate Professor



Walter Blaedel, a New Yorker by birth but a Californian by education up to an M.S. '39 from U.C.L.A., and then a Ph.D. from Stanford in '42, has been a member of the faculty since 1947 at which time he joined the analytical division with the rank of assistant professor. Promotion to his present rank came in 1952. Before coming to Wisconsin he had held an instructorship at Northwestern after which he became a research associate there in a National Defense Research Committee project. Then followed a two-year association with the Manhattan project at Chicago and one with California's radiation laboratory. Except for a year's leave of absence in 1954, which he spent at Argonne National Laboratory, he has been a Madison resident since his arrival nine years ago. His research interests are: radiochemical analysis, ion exchange, and liquid-liquid extraction.

of Mrs. McElvain. Their return trip was made via Scandinavia where they visited some of Norway's principal cities, viewed much of its western coast from a steamer, and traveled inland on some of her fjords. After a visit to Stockholm they went on to Copenhagen and then to Amsterdam for their last stop in Europe. They arrived home in time for the opening of the University and with plenty of time to spare to welcome their first grandchild, Jean Ellen Jenkins, who was born to their daughter, Jane, on November 15. Early in the second semester her grandfather underwent major surgery to correct a long-standing ailment; and he is now enjoying good health.

Professor Villiers W. Meloche is one of five members of the American Chemical Society recently appointed to the Advisory Board of Analytical Chemistry. He is also a member of the Willard Gibbs Award Committee of the Chicago Section. His professional interests in analytical chemistry and instrumentation have in the past year taken him to Milwaukee to address the American Spectroscopy Society, to Pittsburgh for the Conference on Spectroscopy, and to Los Angeles in June for the 9th Summer Sympos-

ium of the Division of Analytical Chemistry of the ACS.

The H. A. Schulettes, prompted by a desire to visit the areas in which their respective ancestors had lived before immigrating to the States, took off for Europe during the closing days of the 1955 summer session. They reached their first objective, the Shakespeare and the Bobby Burns areas, via Plymouth and the sites of several well-known cathedrals in southern England, London and Oxford where they added their first this-is-a-small-world note to their travelogue: meetings a physics faculty colleague on the narrow balcony of a church tower there. Another such incident occurred in Edinburgh. The second leg of their journey consisted of a week's stay in Norway and a shorter one in Denmark, after which they landed on German soil. After a visit to Detmold where Dr. Schuette refreshed his memory of a summer's visit there following his graduation from college, the homeward journey began via Munich, Heidelberg, the Rhine, Bad Godesberg, Bonn and Cologne, and ended in Amsterdam with plenty of time left to visit The Hague and some of the areas reclaimed from the sea. Their last major meal on land was eaten one evening at the airport; the following evening home-cooking was again the order of the day!

Prof. E. E. Van Tamelen and his project associate, Dr. Paul D. Hance, last year completed the final steps in the elucidation of the stereochemistry of reserpine, an alkaloid now used in the treatment of patients with hypertension. Because 64 possible arrangements actually represent the molecular shape of this compound, it still must be obtained from certain species of *Rauvolfia*—much still remains to be done before actual synthesis of reserpine becomes a reality.

In the closing months of the past school year, Prof. A. L. Wilds delivered lectures at Wayne University before the Detroit Bio-Organic Chemists Club; before the local section of the ACS at his alma mater, the University of Michigan; before the St. Louis Organic Chemistry Section of the ACS and the chemical staff of Monsanto in that city.

Prof. John E. Willard took part in a symposium on nuclear applications presented last November on the occasion of the golden jubilee of the Buffalo Section. The title of his paper: "Applications of Radio Tracers in Physical Chemistry."

Several staff members gave gen-
(continued on page 4, col. 1)

Staff News --

(continued from page 3)

erously of their time in planning and making arrangements for the four symposia which were held on the campus, June 18-22. Serving with Prof. C. F. Curtiss, who was chairman of the symposium on valency and chemical bonding, were Professors Cornwell, King and Margrave. Professors Ferry, Williams and Alberty served with four others on the local arrangements committee for the 30th National Colloid Symposium and the meeting of the division of high polymer physics of the American Physical Society which sponsored two half-day symposia. One was devoted to the general and colloid aspects of diffusion, the other to diffusion in polymer systems. Prof. J. H. Mathews formally opened the colloid symposium as he did on a similar occasion 30 years ago.

This 'n' That About Our Alumni

E. W. Adams, Ph.D. '24, is a five-time grandfather. At last reports his son had contributed three boys to the family circle and his daughter two girls. Are brother and sister specialists, each with respect to his own sex, as to offspring?

Carl S. Alexander, B.A. '44, is one of about 40 of our alumni who are known to have made their training in chemistry the background for a medical career. A graduate of Columbia University, College of Physicians and Surgeons, '48, and a diplomat of the American Board of Internal Medicine, he was at last report serving as cardiologist in the U. S. Naval Hospital, Great Lakes, Illinois. He is married to the former Lois Cook, B.S. '47 (H.Ec.) who has borne him two sons, Gary and Michael.

Gordon R. Anderson, B.S. '35, is traffic manager at Dow Chemical.

Arthur C. Andrews, Ph.D. '38, holds a professorship of physical chemistry at Kansas State College, Manhattan.

Alexander R. Amell, Ph.D. '50, is assistant professor of chemistry at the University of New Hampshire.

Elmer A. Ansorge, ex-'28, is a lubrication engineer in the employ of the Texas Company. His residence: DePere, Wis.

Morris H. Aprison, B.S. '45, heads the Biophysics Section of the Thudichum psychiatric research laboratory of the Galesburg (Ill.) State Research Hospital. His qualifications

Charles F. Curtiss

Associate Professor



Four years after he had left the campus with his B.S. '42 degree, Chemistry Course graduate Curtiss returned to pursue studies for the doctorate. In 1948, his objective reached, he became a faculty member via a project associateship. The following year he was appointed assistant professor and in 1954 was advanced to his present rank. His off-campus activities during his four-year absence from Madison were devoted for the most part to service as a chemist in the geophysical laboratory of Carnegie Institution and short stays at the Allegany Ballistics Laboratory of George Washington University and Minnesota. His research activities include: quantum mechanics and the kinetic theory of gases.

for his present position are two other Wisconsin degrees: M.S. '49 in physics, and Ph.D. '52 in biochemistry.

Fred C. Arzberger, B.S. '20, is with Commercial Solvents Corporation, Terre Haute, Ind., and Rolland A. Aubey, B.S. '49, is employed by a Wisconsin paper manufacturer, Ne-koo-Edwards Company.

Originally in the employ of Monsanto Chemical Company, Robert M. Aude, B.S. '39, transferred to Heyden Chemical Corporation where he is now plant manager.

Paul R. Austin, B.S. '27, is research director in duPont's Electrochemicals Department. An M.S. from Northwestern and a Ph.D. conferred by Cornell in '30 tell the story of his graduate training.

Grant C. Bailey, B.S. '32, went on to acquire two more degrees: M.S. '38, from State College of Washington, and a Ph.D. from Iowa '38. Currently he is on the staff of Phillips Petroleum Company, Bartlesville, Okla.

Alice Crew Baker (Mrs. O. E.), M.A. '21, reported that she was widowed in 1949, is busy with the interesting job of taking care of her motherless grandchild, and during the last war spent five semesters assisting in the instruction of Freshman Chemistry at the University of Maryland.

James A. Bain, B.S. '40, upon graduation made physiology his major interest in which field he earned his Ph.D. in '45. He is now profes-

sor of pharmacology in the Division of Basic Health Sciences, Emory University, Georgia.

Nevius V. Ballance, B.S. '13, is one of several Chemistry Course graduates who never followed the chemical profession. He is in insurance in Peoria, Illinois.

An early contributor to Badger Chemist—he was the first of last June's graduating seniors to do so—is Leonard J. Banaszak who at that time was in the employ of Rahr Malting Company, Manitowoc, as research chemist. He is back in school now: Marquette University.

The name Barnes appears twice on our mailing list; and it concerns brothers. Roderick A., B.S. '39, went on to Minnesota where he won the Ph.D. in '42. He is now an associate professor at Rutgers University, New Brunswick, New Jersey. David E., B.S. '50, parenthood achieved before graduation, after one year in industry (Swift and Company), returned to the academic fold and enrolled in the University of Florida. Four years later—and now the father of three boys and a daughter—he won his Ph.D. degree and joined the research staff of U. S. Rubber Company, Passaic, New Jersey.

During the seven years which have elapsed since her graduation (B.A. '49), Patricia Barth served for a time as instructor in chemistry at the Milwaukee Extension; returned to the Madison campus to pursue graduate work in organic chemistry. Her object (M.S. '55) achieved, she was for a year project assistant to Prof. W. J. Johnson. Early in August she exchanged marriage vows with Robert Houser Davis, Ph.D. (physics) '56, who is currently a project associate at Rice Institute, Houston, Texas.

George W. Batchelder, Ph.D. '32, is still living in California, as reported in our last Newsletter, but he has changed his affiliations. His present position, principal chemist for Grand Central Rocket Co., Redlands.

Another bride in the 'B' group is Mary Elizabeth Batiste (see Newsletter 3). She married Cameron Murchison, B.A. and M.A., N. Carolina, on June 9. Mr. Murchison, who served for two years with the Counter Intelligence Corps in Iceland during World War II, is a research analyst for the National Security Agency.

At last reports, the family of Jean Stern Baum (Mrs. Leo), B.S. '47, consisted of two children. Jean was at one time a chemistry instructor at the Extension Division in Milwaukee.

(continued on page 5, col 1)

This 'n' That --

(continued from page 4)

Martin A. Baum, B.S. '35, is supervisor of wood and lignin research with Marathon Corporation, Rothschild, Wisconsin.

Harry R. Beard, M.S. '20, sometime instructor in general chemistry ('19-'20) is research director with New England Fish Company, Seattle, Wash.

Promoted to an associate directorship in Procter and Gamble's research and development department is Lloyd W. Beck, Ph.D. '44.

Edwin N. Becker, Ph.D. '53, spent the first two years after graduation in St. Paul, Minn., as a staff member of the College of St. Thomas. He is now an assistant professor in Long Beach State College, California. The Beckers have three children.

John D. Behun, M.S. '51, is pursuing graduate studies at the University of Pittsburgh on a research assistantship.

Another addition Badger Chemist's married-alumnae list is Virginia Lotz, B.A. '48, who on January 13 married physicist Dr. George I. Bell, a fellow worker at Los Alamos Scientific Laboratory, New Mexico. In June "Ginny" joined her husband, a mountain climber of no small renown, on a vacation trip to Peru to scale Andean peaks.

Upon leaving Wisconsin, Richmond T. Bell, B.S. '27, enrolled in the Graduate School of the University of Virginia, where he won his Ph.D. '30. He is now a patent coordinator with The Pure Oil Company at its research and development laboratory in Crystal Lake, Illinois.

John W. Berge, B.S. '51, is back in school, now as a graduate student, after service in the armed forces. He was married in June to Lila Greenfield, B.S. (H.Ec.) '55. John is the son of the executive director of the Wisconsin Alumni Association.

David A. Berman, B.S. '48, is an assistant professor in the University's Extension Division at its Green Bay and Marinette centers. He earned his first graduate degree (M.S. '50) at the University of Michigan and, he reported, is close to the Ph.D. degree in inorganic chemistry.

George W. Bethke, B.S. '52, informed us that he is still a graduate student at Harvard University with hopes of having a different address in 1956.

I. Richard Birnbaum, B.A. '26, is another of our alumni who went from chemistry to medicine. Dr.

IN MEMORIAM

Ernest B. Benger, Ph.D. '17, retired DuPont research director and some time Delaware state senator—May 29, 1954, in Wilmington, Del.

Albert Brann, Ph.D. '18, retired research chemist with Westinghouse Electric Corporation, Lamp Division—June 29, 1955, in East Orange, N. J.

Lucy Louise Finner, B.S. '20, M.S. '25, M.D. (Rush) '36—May 29, 1955, in San Francisco, Cal.

Roy Dykes Hall, B.S. '00, M.S. '02, Ph.D. (Pennsylvania) '04; instructor '05-'09, retired consulting engineer with Westinghouse Lamp Co.—Mar. 3, 1955, in Bradenton, Fla.

Mabel Beth Hart, B.S. '20, associate chief librarian of the Standard Oil Development Co., at the time of her passing—December 7, 1953, in Linden, N. J.

J. Bruce Hoertz, B.S. (Akron) '40, M.A. '42, Ph.D. '48, research chemist with B.F. Goodrich Co.—October 15, 1955, in highway accident near Cleveland, Ohio.

Clarence Karl Naujoks, B.A. '28, chemist with New York Central R.R.—June 9, 1955, in Cleveland, Ohio.

Henry Briggs North, M.A. '06, D.Sc. (Paris) '09, instructor '05-'07, president, North Metal and Chemical Company—May 23, 1956, in York, Pa.

Phillip A. Ritter, B.S. '15, retired U. S. Rubber Co., Eau Claire, Wis., chemist—May, 1956, apparently by drowning, in Chippewa River.

Gerhard K. Rollefson, B.A. '20, M.A. '21, Ph.D. (California) '23, professor of chemistry at California—November 15, 1955, in Berkeley.

John F. Stephel, B.S. '16, owner of the Stephel Laboratories in Milwaukee—April 19, 1955, in Milwaukee.

Lewis D. Suhr, B.S. '18, president of Chicago engineering firm Suhr, Berryman, Peterson and Suhr—June 17, 1955, in Evanston, Ill.

Otto E. Toenhart, B.S. '26, M.S. '27 Ph.D. '29, MD. (Harvard) '34—March 31, 1956, in Milwaukee

George A. Van Valkenburgh, B.S. '30, chemist with Pure Oil Company, Crystal Lake, Ill.—October 9, 1955, in highway accident near Barrington Ill.

Robert V. Williamson, Ph.D. '23, retired head of the plastics and building materials section of the Northern Utilization Research Branch, USDA—July 16, 1956, in Peoria, Ill.

Birnbaum, '29, is a practicing surgeon in Akron, Ohio.

Robert A. Black, B.A. '42, College of Wooster, interrupted his graduate studies in '44 by returning to Louisville, Ky. He is now in the employ of Joe E. Seagram and Sons, Inc. The University of Louisville granted him an M.S. degree in '50.

Arthur T. Blades, Ph.D. '52, is now with the Alberta Research Council, Edmonton. He holds the position of photochemist in the petroleum and natural gas section of this growing organization.

Galo Blanco, Ph.D. '22 (forest products), is plant superintendent with Industrial Rayon Corporation, Cleveland.

Also in wood chemistry is Philip S. Blickensdorfer (M.A. '38) with Champion Paper and Fibre Co., Hamilton, Ohio.

DuPont's Edward J. Bloom, Ph.D. '40, wrote "Always read the 'Badger Chemist' straight through with much interest. You are doing a fine job and I'm sure everyone appreciates it". Accompanying this "orchid" was a steel engraving of George Washington, backed in green and of the expendable type. (Our thanks for both, and may other Badger chemists return the enclosed questionnaire with an "engraving" to make Newsletter possible.—Ed.)

Gilbert H. Boeder, B.S. '41, is a technical manager with B. F. Goodrich Co., in Tuscaloosa, Ala. His request for a complete listing of the entire staff of the Chemistry Department is pictorially answered in this issue of Badger Chemist even though we have probably "gone for broke" in complying with his suggestion.

In 1924 Kathryn M. Boehner, B.A. '21, became a teacher in the Birmingham, Ala., school system and in 1948 was named head of the Science Department in its Ensley High School. She has been very active in the Alabama Junior Academy of Science. Her success in this extracurricular activity was noticed by the Alabama Academy of Science which named her to become the first recipient of its pin awarded to an outstanding science teacher.

Upon graduation James W. Bothwell, B.S. '50, enrolled in the Graduate School and elected to make biochemistry his major for the doctorate. He is now employed by Johnson and Johnson at their research center in New Brunswick, N. J.

Phyllis A. Bott is one of two of our alumnae who could claim Professor Schuette as their spiritual (continued on page 6, col 1)

This 'n' That --

(continued from page 5)

ancestor in chemistry and who are known to hold departmental chairmanships. She capped her Wisconsin degrees, B.A. '23, and M.S. '24, with a Ph.D. '30 in physiological chemistry from Pennsylvania. Currently, as a professor of physiological chemistry at Women's Medical College of Pennsylvania, she heads her department.

Lester P. Brillman, B.S. '33 and M.D. '38, is practicing medicine in Beloit, Wis.

Eugene O. Brimm, B.S. '38, has recently been promoted by Linde Air Products from research supervisor to an assistant managership at its Tonawanda, N. Y., plant.

Akbar F. Brinsmade, B.S. '39, is managing director with Promotora Nacional de Industrias, S. A. Venezuela in Caracas.

John W. Brooks, Ph.M. '39, went on to Iowa for graduate work toward the doctorate. He is now an assistant supervisor of research with Socony Mobil Oil Co., and, as a "visiting hireman" for his employers, has been making visits to the campus in recent years.

Robert F. Brown, Ph.D. '37, is manager of chemical sales with Emery Industries, Inc., in Cincinnati.

B. L. Browning, Ph.D. '28, holds a research associateship at Institute of Paper Chemistry, Appleton, Wis.

We were happy to remove her name from our lost-alumni list but embarrassed at our ignorance in not knowing that Janet Weber Bruhn (Mrs. H. D.), B.S. '33, has a Madison address. She is the wife of a professor of agricultural engineering.

After having moved about in various divisions of U. S. Rubber Company, since 1942, George S. Buettner, B.S. '40, has come back to the Midwest. He is head of process control in the Ft. Wayne, Ind., plant. The Buettners have three children.

Dorothea Teschan Bullock (Mrs. A. B.), B.A. '32, and M.A. (California) '34 in biochemistry, was married in 1935. She reported that, although she never returned to chemistry, she stayed in the fold by marrying a chemist in the employ of Shell Development Company, Emeryville, California. As a part-time utility clerk with the Bank of America, where she does duty as necessity demands in tracing errors and taking over as teller, bookkeeper, etc., she has found that all "the lovely theories—learned in 1932—have been replaced by newer and lovelier (ones)". The Bullocks have two teenage children.

George W. Burton, B.S. '48, is a

Farrington Daniels

Professor



Departmental Chairman Daniels, possessor of two Minnesota degrees, is one of three of our staff members to have studied for the doctorate under the late T. W. Richards of Harvard. Upon graduation in '14, he joined the staff of Worcester Polytechnic Institute but resigned in 1918 to accept a commission in the CWS. After a year's service in the fixed nitrogen research laboratory, USDA, in Washington, he returned to his native mid-west and the academic life via an assistant professorship at Wisconsin. Promotion to a full professorship came in 1928 and election to the Department's chairmanship followed in 1952. Prof. Daniels is the only member of the Wisconsin staff, past or present, to have been elected to the presidency of the American Chemical Society, and on two occasions, in 1937 and in 1947, has served as vice-president for chemistry of the AAAS. His rise to the presidency of the ACS was preceded by a turn as chairman of the division of physical and inorganic chemistry and service as a director of the Society. During the last war he spent two years on the staff of the Metallurgical Laboratory, Manhattan district, after which, in 1946, he served a two-year term as chairman of the board of governors of Argonne National Laboratories. He is a member of the National Academy of Science and a J. Willard Gibbs medalist. The University of Rhode Island conferred an honorary D.Sc. upon him in 1955. His research interests are: chemical kinetics, photochemistry, atomic power, solar energy, thermoluminescence of crystals, geochemistry of uranium, and nitrogen fixation. He is the author of a widely used textbook on physical chemistry, and a fellow of the AAAS.

senior engineer with Westinghouse Micarta Division, Hampton, S. C. He reported that he is surrounded by "Rebs" and segregation and "wondered" if those who say, "There are no more frontiers", have ever stopped (in Hampton) in the heart of the southland on their way to Miami.

Jay W. Butts, chemistry teacher in Milwaukee's Boys Technical High School, M.S. '40, suggested that we

might be interested in knowing that one of his students got first honors in the state meeting of the Wisconsin Junior Academy in June 1955. Indeed, we are.

It has come to our attention that Wisconsin rates sixth place at Dow Chemical as to number of employees on the technical staff. Among them are Leo E. Streeter, B.S. '40, who is in the technical employment department, and, at last reports, George J. Butzler, B.S. '49.

For George Barr, B.S. '33, president of a rapidly growing Chicago firm of manufacturing chemists, the expression "Hire the Handicapped" is more than a part of a cancellation slogan on a letter left at the door by the mail carrier. It represents, rather, a philosophy and a thoroughly practical business tenet at the plant of G. Barr and Company which now holds a leading position in the aerosol-processing industry. The success of this depression-born company rests in large measure upon the resourcefulness, the imagination, the patience and the perceptiveness of its president, himself handicapped in 1934 when he found himself out of his St. Paul job as the result of a most unfortunate automobile accident which cost him part of a leg—and seven months of hospitalization. The company's employment roster includes, among other cases, the blind, the deaf, the mute, paralytics, and those deprived of the use of either one or more limbs. Currently George is chairman of the (Illinois) Governor's Committee for the Employment of the Physically Handicapped.

John B. Capuano, B.S. '41, is chief of the customer service laboratory of the Udylite Co., Royal Oak, Mich.

Harry F. Carswell, who went the academic route from B.S. '23 to Ph.D. '27, fills a unique position for a chemist: administrator of Richland Hospital in his home town of Richland Center, Wis.

LaVerne F. Clifcorn, Ph.D. '34, is one of several of our alumni who have been elected to the presidency of a national scientific organization. In his case it is the Institute of Food Technologists. He is now a research associate with American Can Company at their Barrington, Ill., laboratory.

Robert F. Conarey, Ph.D. '38, is assistant director of research with The Texas Company.

Gladys Neider Conner (Mrs. H. A.), B.S. '32, is a member of the Sycamore High School staff of Wyoming, Ohio. In her days at Wis-

(continued on page 7, col. 3)

UW-M

The initials at the column head may look unfamiliar at the moment but will begin to take on added significance as time marches on. For those of you no longer familiar with the Wisconsin scene they stand for University of Wisconsin—Milwaukee, the name designated for the four-year institution created in the beer city—home of the Braves—by the last legislature. Actually UW-M is perhaps less a synthesis than an amalgamation. The fundamental parts have been in existence for a long time. Wisconsin State College in Milwaukee originated as a teacher-training institution and only recently acquired state college status. The Extension Division has functioned for many years as a branch of the University at which Milwaukee students might complete the first two years of University work. Many of our Badger chemists started their academic work there in the branch of the Chemistry Department so ably operated by George Town, Ph.D. '22.

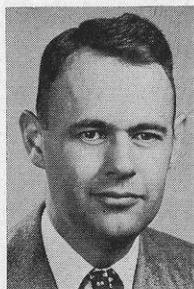
The merger authorized by the legislature brings the two schools together as a degree-granting branch of the University of Wisconsin. The school will be under the control of the University's Board of Regents with administration through a provost responsible to the University's president. Dr. Martin Klotsche, former president of Milwaukee State College, has been selected as provost of the merged institution. He is the holder of a UW doctorate in history.

The faculties of the two schools are being merged and instruction will be offered in two locations, the Kenwood campus of the former State College situated on the northeast side of the city and the downtown campus of the former Extension Division. Engineering and commerce students will have their courses downtown. Liberal arts and education students will have their classes on the Kenwood campus except for liberal arts freshmen who will be downtown because of the better facilities for science instruction at the former extension center. It is expected that a new science building on the Kenwood campus will receive high priority on the building program, thus permitting transfer of the freshman liberal arts students to that area.

The chemistry department in the new UW-M will have a strong Badg-

John D. Ferry

Professor



From Dawson, Yukon Ty., his birthplace—and farther north none of his present colleagues was born—to the time that Stanford conferred upon him the Ph.D. degree in '35 is a 23-year span in the life of John D. Ferry. It was temporarily broken by a two-year stay at the University of London. After a year with the Hopkins Marine Station, Stanford, he came east to begin a nine-year association with Harvard University which began as an instructor and continued first as a junior fellow and then for four years as associate chemist at the Oceanographic Institute in Woods Hole. During three years of the latter period he was also a research associate. In 1945, on leaving Harvard, he joined the chemistry faculty as assistant professor and annually thereafter he advanced one step to his present rank. Before coming to Wisconsin he had become the recipient of the 1946 Eli Lilly Award in biological chemistry and three years ago was named to receive the Bingham medal of the Society of Rheology.

His research interests lie in the fields of ultrafiltration, high polymers, proteins, and mechanical properties of viscoelastic materials.

er chemist flavor. The chairman will be Professor Paul E. Millington, Ph.D. '28. He will be assisted by Associate Professor Ray Brumblay, Ph.D. '38. Other Wisconsin graduates on the staff are Associate Professors Durward Layde, Ph.D. '40 and Victor Reinders, Ph.D. '35; and Instructors Brigita Ekmanis Kore, B.S. '54, Elizabeth Montbon, B.S. '55, Doris Roob, B.S. '54, Margarite Sandner, B.S. '55, and Bessie Tan, B.S. '56.

Up to the present time, the offerings at the Milwaukee extension have been limited to freshman chemistry, quantitative analysis, and organic chemistry. These offerings will now be expanded to include additional courses necessary to the four year curriculum for majors in chemistry.

Extension Centers Continue

The merger of the Milwaukee Extension Center will not affect the status of the extension centers in other parts of the state. Professor

Town, who directed the chemical instruction in all of the centers besides serving as chairman of the department in Milwaukee, has resigned the latter position in order to put his time more effectively to the direction of the centers. He will now have his headquarters with the Department at Madison and will operate from there.

Badger chemists figure prominently on the faculties of the extension centers around the state. Besides Professor Town there are three who hold assistant professor rank and several instructors. Assistant professors John F. Vozza, Ph.D. '44, and Samuel Weiner, Ph.D. '36, who are at Racine and Wausau respectively, have been in the extension division for a number of years. Assistant professor David A. Berman, B.S. '48, is a comparative newcomer to the center at Green Bay and Marinette. At last report Dave was at the point of completing his doctorate in inorganic chemistry at the University of Michigan. Charlene Steinberg, M.S. '48, and Eugene F. Wilda, M.S. '40, are instructors at Sheboygan and Manitowoc.

This 'n' That --

(continued from page 6)
consin she was an advisee of the late Professor Fischer whom she fondly remembers for his patience and his kindness.

Willard P. Conner, Ph.D. '40, reported last November that he was then on a year's leave of absence from Hercules Powder Company, where he had been manager of its physics division since 1943, to serve as acting technical director of the materials testing reactor operated by Phillips Petroleum Company at the National Reactor Test Station, Idaho Falls, Idaho.

Our records show that upon at least three Badger chemists there has been conferred an honorary degree. For Ralph A. Connor, Ph.D. '32, vice president of research with Rohm and Haas Company, it is a D.Sc.; Philadelphia College of Pharmacy and Science.

Mervyn J. Conohan, B.S. '33, is chief chemist with Sterling Lacquer Manufacturing Co.; his address, Afton 23, Mo. He is serving the St. Louis Paint and Varnish Production Club as its secretary.

Frederic L. Conover, B.A. '15, and Ph.D. '23, is a professor of chemistry at Vanderbilt University and Raymond D. Cooke, M.S. '14, is in business for himself as owner of Badger Paint Store, Joliet, Ill.

(continued on page 8)

Harlan L. Goering

Associate Professor



A native of the wheat state, Harlan Goering prepared for graduate work at Bethel College, A.B. '43, and completed his formal education in 1948 at the University of Colorado. For two years thereafter he held a research associateship at the University of California, Los Angeles. He became an instructor of future Badger chemists, majoring in organic chemistry, in 1950; two years later was promoted to assistant professor; and this year reached his present rank. His research interests: mechanisms of organic reactions, radical additions, and rearrangements.

This 'n' That --

(continued from page 7)

Arthur C. Cope, Ph.D. '32, chairman of the Department of Chemistry of MIT, heads also a committee of five scientists serving as an advisory group of the administrator of an Alfred Sloan Foundation-sponsored program to stimulate basic research in physical science.

The Milford A. Cowleys, Ph.D. '34, have made plans to enroll their daughter, Janice, in the School of Pharmacy. She spent her first college year at LaCrosse State Teachers College.

George S. Cripps, B.A. '47, withdrew from college in his senior year to join the armed forces. His services as combat pilot in the Marine Corps during World War II and the Korean War safely completed, he returned to the campus to pick up his studies where he had left off in 1944. Then followed employment with Merck and Company where, in its marketing department, he specialized in agricultural and food-processing problems. He had also served in its research and development division and the technical service section of its sales department. Late in May, 1955, Climax Molybdenum Company announced his appointment as manager of agricultural development in its chemical division.

A. Burnell Crowell, Jr., B.S. '28, is vice-president and general manager with Union Paste Co.

James F. Cummins, M.S. '28, is serving as scientific attaché at the Australian Embassy, Washington, D.C., in its Scientific Liaison Office.

He expects to remain in the United States for about three years.

Norbert F. Cywinski, B.S. '54, holds a fellowship in Northwestern University and is Ph.D. candidate; organic chemistry his major.

Orville J. Dahl, B.S. '41, has been in the employ of B. F. Goodrich Company since January, 1942. He began work at its Los Angeles plant and after some three years there was transferred to Akron. His next move was to the Goodrich associate plant at Enschede, Netherlands, where he was stationed almost six years. His last assignment was to the Miami, Okla., plant. He is chief chemist there. Two daughters have been born to the Dahls: one in Los Angeles, the other, in 1947, in the Netherlands.

Stephen D. Darling, B.S. '54, has completed two years of graduate work at Columbia University on a National Science Foundation Fellowship. He has now been selected to receive the du Pont teaching fellowship there for '56-'57.

Chester Davis, M.S. '45, returned to the campus last May for a visit. Now retired by the Kettering Foundation, he is devoting part of his time to travel.

Wm. DeAcetis, Ph.D. '54, is a member of the research staff of Olin Mathieson Chemical Corporation, Niagara Falls.

Jane Reif Dean (Mrs. David L.) B.A. '47, has returned to Madison. Her husband is a member of the clinic which bears the family name. Jane's training in chemistry served her as an "anchor to windward" (at Procter and Gamble Company) while her husband was serving his internship in a Cincinnati hospital.

Adrian M. Docken, Ph.D. '41, has returned to his post at Luther College after a year's leave of absence which he spent at Yale as a faculty fellow under the auspices of the Fund for Advancement of Education. The Dockens have four children.

Leslie Downs, M.S. '32, is one of about nine Badger chemists on the staff of the Forest Products Laboratory in Madison. His rating: chemical engineer.

Werner W. Duecker, B.S. '17, is manager of the research department of Texas Gulf Sulphur Company, New York 17. He completed his formal education at the University of Iowa with a Ph.D. '25.

Ralph E. Dunbar, Ph.D. '33, is a member of a committee of five that last year prepared a course outline in chemistry for North Dakota high schools. This publication is now the

Norris F. Hall

Professor Emeritus



Norris Hall is the last of the trio of the late T. W. Richards' students to have held professorships in the Department. Holder of two degrees, A.B. and A.M. from Haverford College where his father was once a member of its faculty and former teacher of Richards when he was a young man, a two-degree Harvard alumnus, A.M. '13, Ph.D. '17, and sometime instructor there, he came to Wisconsin as an assistant professor in 1929, was advanced one step in 1930, and was made professor in 1934. He spent the year after graduation as a chemist in several governmental laboratories before joining the CWS. In France, at the cessation of hostilities, he made the most of an enforced delay in being returned to the States by studying at the Radium Institute under Madame Curie. Back to civilian life he returned to his teaching duties. He retired at 64 in order to accept a tempting offer from Argonne National Laboratory.

Among his research interests are: the nature of acids and bases, strength of acids in non-aqueous solvents, salt distribution between solvents, strength of chemical bonds. He is a fellow of the AAAS.

standard guide for all high school instruction in the state.

Herbert J. Dutton, B.A. '36, of the Northern Utilization Research Branch, USDA, at Peoria, Ill., has received a Superior Service Award from the Secretary of Agriculture. He has recently been appointed head of the laboratory's forage and agricultural residue section.

Harold F. Dyas, B.S. '36, Ph.D. (Duke) '41, is chief chemist with Weber Costello Company. He is living in Riverside, Ill.

Harold DeWane is employed by the National Bureau of Standards as a physical chemist in the Electrochemical Section; he is a member of Committee C-18, dry cells and batteries, of the American Standards Association.

Carl Djerassi, Ph.D. '46, professor of chemistry at Wayne University, spent part of the winter of '54-'55 on a lecture trip which took him to Chile, Argentina, Uruguay and Brazil. The following June he read (continued on page 10, col. 1)

New Ph.D.'s

As has become customary in Badger Chemist we are again listing the name of those who have earned the highest degree offered by the University in chemistry, together with the title of their thesis, their major professor, and their present affiliation. It will be noted that twenty, more than half, took positions in industry. Nine graduates are at an academic institution either in a teaching or post-doctoral capacity. Only one entered government service, two are in military service.

Ph.D. Degrees Granted

August 19, 1955

Irwin H. Billick—The polymerization of fibrinogen (Ferry), University of Liege.

Edward C. Boycks—Instrumental studies in flame spectrophotometry (Meloche), Esso Research.

John S. Dasler—I. Improved free-volume theory of liquids. II. Long-range intermolecular forces (Hirschfelder).

Carl Frieden—Kinetic studies of the enzyme furmarase (Alberty), Washington University.

Stanley T. Hirozawa — Alizarin sulfonate complexes of zirconium and hafnium (Larsen), Wyandotte Chemicals.

Reed A. Howald—Isotopic exchange reactions related to Friedel-crafts reactions: I. Stannic chloride and hydrogen chloride. II. Stannic chloride and organic chlorides. III. Hydrogen chloride and aromatic hydrocarbons (Willard), California at Los Angeles.

Jack H. Jefferson — The flame spectrophotometric determination of magnesium (Meloche), Southern University.

William F. Johns—I. 14-Isoestrone methylether. II. Synthesis of DL-3 alpha, 11 beta-dihydroxy-D-homo-18-noretiosholan - 17a - one. III. Approaches to the synthesis of aldosterone (Johnson), G. D. Searle.

James J. Leddy—A study of the reduced states of zirconium and hafnium (Larsen), Dow Chemical.

Maurice Shamma—The stereospecific synthesis of di-yohimbane and initiation of the synthesis of yohimbine (van Tamelen), Wayne University.

Ernest F. Silversmith — Stereochemistry of the allylic rearrangement in the 5-methyl-2-cyclohexenyl system (Goering), Cal. Tech.

Ph.D. Degrees Granted

January 28, 1956

John S. Baran—The total synthesis

Joseph O. Hirschfelder

Professor



Theoretical physical chemist Hirschfelder, B.S. '31, Yale, doubled in physics and chemistry at Princeton for the doctorate which was conferred upon him in '36. He remained there for one year as a fellow in the Institute for Advanced Studies and then came on to Wisconsin as a research fellow, a position from which in 1940 he stepped into an instructorship in physics and chemistry. Promotion to assistant professor of chemistry followed the next year. From this stage in his career his progress was, in a sense, unique for without benefit of stop at the associate professor level he was advanced to full professor five years later. When the United States became a combatant in World War II he took a leave of absence to join the National Defense Research Committee as a consultant on interior ballistics of guns, rockets, etc., and to serve, also, as a group leader of the geophysics laboratory. The year 1943 found him at Los Alamos Scientific Laboratory now serving there as group leader of theoretical physics and ordnance and two years later he became head of the theoretical physics division of the Naval Ordnance Test Station at Pasadena. His final assignment came in 1946 when as chief phenomenonologist he witnessed the Bikini atom bomb test; and after that he returned to the academic life and the directorship of the University's Naval Research Laboratory.

He is a member of the National Academy of Science and a fellow of the American Physical Society and the AAAS. His research interests are: theory of flame propagation, equations of state, quantum mechanics, and heat conductivity.

of cytisine (van Tamelen), G. D. Searle.

Walter R. Benn—A study of reactions of vinyl ketones with dihydroresorcinol and delta 4a-8a-octalin-1, 6-dione related to steroid total synthesis (Wilds), G. D. Searle.

Robert E. Bunde—Studies on the diffusion coefficient of binary gas systems (Bender), Minneapolis Honeywell Regulator Co.

Robert P. Frankenthal—Studies in electro-analytical chemistry. I. Diffusion currents at spherical elec-

trodes. II. Reduction of iodate at the rotating platinum electrode (Shain), U.S. Steel.

Henry Gates — A spectrophotometric study of the equilibria in acidic chromium III-chloride solutions (King), Milton College.

George Gioumousis — Molecular scattering in the kinetic theory of gases, (Curtiss), Shell Development, Emeryville.

Jack D. Graybeal—Nuclear quadrupole coupling constants in the solid chloroacetonitriles and microwave spectrum of monochloroacteone-nitrile (Cornwell), Bell Telephone Co.

Hisashi Kubota — Properties and volumetric determination of aluminum ion (Blaedel), Oak Ridge National Lab.

Warren E. Lux—Phase rule studies in the binary system cyclohexanone-water (Sorum), Northeastern University.

Phillip Harold Parker—Synthesis of certain 3-substituted-4-piperidones and related octahydroisoquinolines (McElvain), Standard Oil (Calif.)

William F. Rumpel—Interferometric studies of refractive indices and diffusion coefficients for selected gases (Bender), Standard Oil (Ind.)

Bernie Schlessinger—Electrophoretic study of bovine plasma albumin (Alberty), U.S. Air Force.

John R. Soulen—Vaporization of B_2O_3 and other group three oxides (Margrave), Pennsylvania Salt Co.

Ph.D. Degrees Granted

June, 1956

Frederick Baumann—Studies in analytical chemistry (Blaedel and Shain), California Research Laboratories.

Hans John Borchardt—Factors involved in differential thermal analysis (Daniels), General Electric Co.

Peter Emil Graf—I. Photochemistry of the reactions of bromine with tetrachloroethylene and dibromotetrachloroethane. II. Flash photolysis study of the recombinations of bromine atoms. (Willard) California Research Corporation.

Evalyn R. Hornig—The radiolysis of liquid and solid alkyl iodides (Willard).

Claire E. Hummel—Products resulting from diazoketones preparation of diphenylindanones (Wilds), Columbia.

Ellington McFall Magee — The kinetic isotope effect in the decomposition of substitute ureas and in the hydrogen-iodine reaction. (Daniels), humble Oil Co.

(continued on page 10, col. 1)

New Ph.D.'s --

(continued from page 9)

Dick R. Markwell—A study of cathode potentials in aqueous tungstate solutions (Holt), U.S. Army.

G. Robert McKay, Jr.—I. The acylation of ketene acetals to acylketene acetals, II. Cyclic ketene acetals and orthoesters from 2, 2-dimethoxy-2, 3-dihydropyran. (McElvain) duPont.

Allen Prince — X-ray diffraction studies of aqueous barium iodide solutions (Bender), Dow.

William David Wood—I. The configuration at the B/C ring fusion of estrone II. Experiments on the elaboration of cortisone side chain (Johnson), Spencer-Kellogg.

This 'n' That --

(continued from page 8)

paper for an international symposium on the chemistry of natural products at the Israel Institute of Technology, Haifa.

Carl W. Eggert is with Borden's nutritional research laboratory in Elgin, Ill., and is serving his employer as biochemist in charge of the small-animal laboratory. Carl's avocation is Boy Scout work in which field he has been active for some 23 years. His 16-year-old son reached Eagle Scout status last February. The Eggerts have, also, a daughter.

Paul Ehrlich, Ph.D., '51, is a research chemist in plastics; with Monsanto in Springfield, Mass.

Robert P. Eischens, B.S. '42, Ph.D. (Northwestern) '49, is with The Texas Company, in Beacon, N. Y.

Hugh R. Eisenhauer, Ph.D. '53, is with duPont Company of Canada, Ltd., at its research centre in Kingston, Ontario.

William Eismann, Jr., B.A. '32, is employed by F. F. Houghton and Company as a lubrication engineer; his residence: Oreland, Penn.

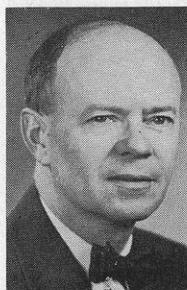
Brigita Ekmanis-Kore, B.S. '54, holds an instructorship in chemistry in the University of Wisconsin—Milwaukee.

Myron A. Elliott, Ph.D. '38, described himself as one who "strayed" from the field of chemistry many years ago". He is now working, as a consultant physicist, on underwater acoustics in connection with defense against naval mines. His location: U. S. Navy Mine Defense Laboratory, Panama City, Florida.

Retired some four years ago by her employers, E. R. Squibb and Sons, during which time she had served them as chief librarian and subsequently was in charge of technical data for their research and development division, Elizabeth

M. Leslie Holt

Professor



Electrochemist Holt is one of the two sons of St. Olaf College (Oles) on the staff. A product of the laboratory of Badger chemist E. O. Ellingson, Ph.D. '10, he arrived after graduation, B.S. '26, on the Madison scene in 1926 to travel the academic route from an M.S. '28 to the Ph.D. '30 as a student of the late Louis Kahlenberg and to climb the ladder as an educator from teaching assistant to his present rank. He served for one year as an instructor in the U. S. Army University at Biarritz, France at the close of hostilities, and for two years (1952) as chairman of the division of electroplating of the Electrochemical Society. His research interests are: electrochemistry, his field of concentration being the deposition of tungsten and molybdenum alloys.

Pickering Emendorfer (Mrs. Earl), B.S. 22 and M.S. (Iowa) '23, has taken up housekeeping in Danville, N. J., where she, apparently, is finding country life very enjoyable after having lived in New York City for 25 years.

Richard W. C. Evans, Jr., B.S. '32, and M.A. (Columbia Teachers') '50, heads the mathematics department of Avon Old Farms, Avon, Conn. He holds the professional diploma, "Supervisor of Mathematics" granted by Columbia in 1953.

Robert B. ("Bart") Ewell, Ph.D. '39, is another Badger chemist to have been sent to Holland on a special assignment by his employers. Upon his return to the States he was assigned to a Shell Oil refinery in California where he is a senior technologist. During his residence in The Hague ('48-'51) Bart married a Dutch girl. The Elwell family now consists of two boys and one girl.

Warren J. Field, B.A. '35, is a production development chemist with Hoffman LaRoche in Nutley, N. J.; in vitamin work. Photography and travel comprise their hobbies; as for the latter it was climaxed last summer by a round trip with their six-year-old daughter from coast to coast, their "best to date".

More information about our alumnus, who took to law with a chemical background, reached us last year. In this instance it concerns John A.

Finken, B.S. '47, and M.S. '48, who acquired an LL.B. '52, George Washington University. He is now a partner in a Washington, D. C. firm and practices patent law with emphasis on chemical matters.

Rudolph F. Fischer, B.S. '48, Ph.D. (Illinois) '51, is with Shell Oil Development in Emeryville, Calif. He married the former Marie Grunewalk, B.S. '48. At last reports the Fishers were a two-child family.

Emory D. Fisher, Ph.D. '35, is a staff member of the School of Mines, Rolla, Mo., and Norman G. Fisher, Ph.D. '34, is a Du Ponter; assistant head of its intelligence division in the chemical department. Three sons and a daughter—their children range in age from 21 to four years—comprise the Norman Fisher family.

Gunther S. Fonken, Ph.D. '51, is a research chemist with the Upjohn Company, Kalamazoo, Michigan, and Rolland G. Frakes, B.S. '51, formerly with Ohio Chemical and Surgical Equipment Company, Madison, Wis., plant, is now a quality control chemist with Victor Chemical Works.

Robert L. Frank came to Wisconsin with an A.B. '36 (Dartmouth). He became a Badger chemist, twice qualified, when he added the Ph.D. in '40. He is now director of research with Morton Salt Company. The Franks have two daughters and give Lake Geneva, Wis., as their mail address.

Laurence F. Friedman, B.S. '55, was, at last report, going through General Electric Company's training program which consists of a series of three-month assignments.

Alvin J. Friske, Ph.D. '54, is a research chemist with Standard Oil Company (Ind.), and may be addressed at its Whiting research laboratories.

George T. Furukawa, Ph.D. '48, is engaged in research with the National Bureau of Standards on low-temperature calorimetry. He is a member of the board of directors of the Calorimetry Conference, a national group of calorimetrists.

Ruth Kreher Fuyat (Mrs. H. A.), B.S. '48, in expressing her pleasure in receiving a copy of Badger Chemist, sent her best wishes for its long and continuing success. She is making her home in Washington, D. C.

Adrian M. Gammill, Ph.D. '51, has moved from the Davison Chemical Corporation, Baltimore, to the Michigan Chemical Corporation, Saint Louis, Mich., where he is now director of its rare earths and thorium division.

After he had acquired his B.S. '40 (continued on page 11, col. 1)

This 'n' That --

(continued from page 10)

and M.S. '42, Robert J. Gander enrolled in the graduate school at Illinois where he won his Ph.D. '44. He is with Johnson and Johnson, in New Brunswick, N. J.

Carl D. Geidel, B.S. '11 and M.S. '13, is president of Geidel Canneries, Inc., of Adell, Wis.

In Milwaukee will be found Harold H. Geller, B.S. '39, who heads Pabst's brewing research department.

Carl F. Georgi, B.S. '30, went over to bacteriology upon graduation and in '34 acquired his Ph.D. degree in that field. He is now chairman of the Department of Bacteriology in the University of Nebraska. A Fulbright scholarship permitted him to spend the year '51-'52 in Paris at the Sorbonne.

Louis G. Germain, B.S. '53, is district supervisor with the American Can Company in its technical service at Seattle.

Robert H. Gillespie, Ph.D. '44, is a research chemist with The Kendall Company, Walpole, Mass. He married Gertrude C. Weber, B.S. (H.Ec. '44), who has borne him two boys and a girl.

Wm. S. Ginell, Ph.D. '49, is a member of the staff of Brookhaven National Laboratory. The Ginnells are the parents of a two-year-old son.

George H. Gloege, M.S. '31, holds a professorship of science in Eastern Montana College of Education where he heads its department of science and mathematics.

Karl B. Goetsch, B.S. '36, is brewmaster with Anheuser-Busch at its California branch. His address: Northridge, Calif.

Twins, a boy and a girl, arrived at the home of Arthur E. Goldberg, Ph.D. '52. Their father is chemist with Chicago Midway Laboratories.

Louis J. Gosting, Ph.D. '48, has moved over to the agricultural campus where he holds an assistant professorship in the Enzyme Institute.

Donald P. Graham, Ph.D. '29, is a senior research associate in organic chemistry with DuPont at the Jackson laboratory. He contributed the chapter on color and chemical constitution of dyes to Lubs' "The Chemistry of Synthetic Dyes and Pigments".

Eleanore Benner Gray (Mrs. C. N.), B.S. '32, has been a resident of Niagara Falls, N. Y., ever since graduation. She has worked as a chemist in a Buffalo laboratory, has served Mathieson Alkali as librarian, and married Mathieson chemist Edward C. Soule who, on dying, left her with two children to sup-

Aaron J. Ihde

Associate Professor



When Wisconsin-born varsity crew man Ihde joined the ranks of the alumni in '31 he obtained a position as research chemist with the Blue Valley Creamery Company of Chicago. In 1938, with a wife and a small child to support, he burned his bridges behind him and returned to Wisconsin to begin work towards a long-cherished objective, the doctorate; and the academic life. His first step completed, M.S. '39, he accepted the assistantship offered him by Dr. Schuette, and won the Ph.D. degree in '41. After spending a year as instructor in Butler University he was invited to return to Wisconsin as an instructor. Promotion to assistant professor came in 1945 and elevation to his present rank followed in 1948. He is one of the group teaching general chemistry; he gives a course on the history of chemistry and, as a member of the Integrated Liberal Studies (ILS) faculty, teaches a course on the physical universe. Governor Kohler appointed him a member of the Wisconsin Food Standards Advisory Committee. He spent the year '51-'52 at Harvard, as a Carnegie fellow. Besides the history of chemistry his research interests lie in the field of foods. He is a referee on papers for Isis, the history of science journal.

port. She then joined Hooker Electrochemical Company's staff as a technical librarian. Married again, she is staying on with her present employer because, she reported, she likes the work.

Roy C. Gralow, B.S. '34, is director of product improvement with Corn Products Refining Company. He is attached to its New York office.

Donald L. Griswold, B.A. '37, is sales manager of American Cyanamid's dyestuff department, and Daniel Grzegorczyk, B.S. '54, is chemist with the Solar Corporation, Cudahy, Wis.

Clarence R. Hackbert, B.S. '20, is a research chemist with Kimberly-Clark Corporation, in Neenah, Wis.

Wm. A. Hadfield, B.S. '14, retired on July 31, after completing a 41-year career as a sanitarian; and practically all of this time was spent in the employ of the Pennsylvania Salt Manufacturing Company, Phil-

adelphia. Bill began his life work in Madison with a manufacturer of stabilized sodium hypochlorite solution and made the sanitation of the farm and dairy plants his field of concentration. He is a former chairman of the scientific committee of the disinfectants and sanitizers division of the Chemical Specialties Manufacturers Association.

With the birth of Michael there was broken the three-girl string of children which has blessed the marriage of Glenn F. Hager, Ph.D. '43, and his wife Norine. His father avers that a contributing factor to the sex of his fourth child was his change from organic chemistry to inorganic research.

Esso's Niilo V. Hakala, Ph.D. '43, in reporting no change in his activities, paid the editors a compliment in his reply, ". . . I have an extra dollar! You're doing a good job and this warrants it more than other uses I would put it to."

Lester D. Hammond, Ph.D. '16, some-time assistant in chemistry, was retired by the National Bureau of Standards after 34 years of service. He is another member of the old guard to whom Badger Chemist came as a pleasant surprise; and he liked it.

Roger G. Hansen, B.S. '44, Ph.D. (biochemistry) '46, holds a professorship in biochemistry at Illinois.

Inez L. Hartwell Neal (Mrs. S. Neal), B.S. '53, at last reports was an instructor in chemistry at the Milwaukee Extension.

Eugene F. Haugh, B.S. '51 and Ph.D. '55, has a chemist's rating in Du Pont's photo products department, Parlin, N. J. He is one of several young Badger scientists "discovered" within the past 12 years by the Wisconsin Academy of Sciences, Arts, and Letters through its sponsored affiliate, the Junior Academy of Science. Gene advanced from the regional elimination contests to the state-wide meeting and became a prize winner there with his paper on semi-micro methods for the home chemist. His understanding mother had sacrificed one element of the family gas stove that her scientifically inclined son might convert it to a Bunsen burner in order to make his own glass apparatus for his experiments. As a public service to the state and as a means of encouraging scientific research among high school students, the senior Academy had already reached its objective!

George F. Heckler, Ph.D. '52, is a research chemist with Du Pont in its film department in Clinton, Iowa.

For Frances Sawyer Hefti (Mrs.

(continued on page 12)

This 'n' That --

(continued from page 11)

Hans), M.S. '23, the year 1941 marked the end of her status as a working gal and her marriage to one who is now in charge of engineering at Appleton Coated Paper Company, Appleton, Wis. Her record for the past 14 years of married life is filled with extra-curricular activities far beyond the call of duty of a housewife. Active in the past in her local P.T.A. at the administrative level and her church and the A.A.U.W. on their state boards, she is currently interested in international relations, an interest which finds expression in placing displaced foreigners and in finding temporary homes for high school students from abroad. She has opened her own doors to members of both groups, and spent the summer of 1954 in Europe with 25 teen-agers!

John H. Heise, B.A. '41, who is now the superintendent of Robert A. Johnston Company's biscuit division, has served his employers continuously since graduation except for a three-year duty with the U. S. Navy. He finds production work much more hectic than the laboratory, where he started, but extremely interesting.

Bertram Helfaer, M.S. '20, is assistant director of research and development with National Aniline, Division of Allied Chemical and Dye.

Richard J. Hellmann, B.S. '48, continued his education at Illinois where he won his Ph.D. in '52. He is now with Eastman Kodak Company, as a development engineer.

Eugene Hensel, B.S. '37, has a public health engineer's rating with the Wisconsin State Health Department. His work deals with environmental sanitation in a district which comprises ten counties in southwestern Wisconsin with Sparta as its base of operations. The M.S. degree which he is privileged to use was earned in sanitary chemistry in '39.

Armin W. Helz, B.S. '30, is employed as a physicist by the U. S. Geological Survey and is living in Gaithersburg, Md. He earned his Ph.D. degree at Rutgers in 1938.

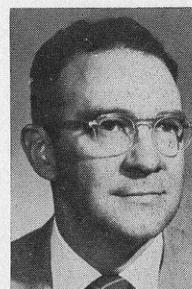
Myron T. Herreid, B.S. '21, is vice-president and general manager of the gas and coke division of Koppers Company in Kearney, N. J.

Ernest A. Hesse, B.A. '32, is a member of the staff of Multnomah College, Portland, Ore., and Bernard O. Heston, Ph.D. '33, is chairman of the chemistry department at the University of Oklahoma.

Eugene K. Hetzel, B.S. '35, is serv-

William S. Johnson

Professor



Exactly 20 years ago William S. Johnson acquired his first degree: A.B., Amherst. This year his Alma Mater, in recognition of his accomplishments since graduation, invited him to return to her campus at Commencement time to receive the honorary D.Sc. degree. Sandwiched between these datum points is a one-year service there as instructor; three years of graduate work at Harvard, which led to an A.M. '38 and Ph.D. '40; an instructorship at Wisconsin 1940; promotion to assistant professor in 1942, to associate professor in 1945; and to professor in 1946. Currently he is serving his second year as Homer Adkins professor of organic chemistry. He is a member of the advisory panel of the division of chemistry of the National Science Foundation, and serves on the American Chemical Society's committee on professional training of chemists. His name appears on the editorial boards of three publications: "Organic Syntheses", Journal of Organic Chemistry and Journal of the American Chemical Society. In 1951 he was invited by the American-Swiss Foundation to lecture in Switzerland and the following year gave the Coover lectures at Iowa.

His research interests center on the structure and synthesis of natural products, particularly the steroids in which field he scored last year, and conformational analysis. He is a fellow of the London Chemical Society and a member of the National Academy of Science.

ing Monsanto as manager of its Carondelet plant.

Erwin N. Hiebert, Ph.D. '54, is an instructor in the history of science at Harvard. Both Hieberts spent his first year out of college in Germany at the University of Gottingen on Fulbright scholarships, he as lecturer in the Max Planck Institut fur Physik and she as a student in musicology.

Thair E. Higgins, after acquiring his B.S. degree in 1951, enrolled in the Graduate School of the University of Michigan where he earned his higher degrees in the next four years. He is now in the employ of Shell Development Company. His residence: Berkeley 2, Calif.

The citation accompanying the J.

W. Sturmer memorial award of Rho Chi Society at the Philadelphia College of Pharmacy and Science reads, "in recognition of his outstanding contributions in the field of pharmaceutical research". This year's recipient of that award is Takeru Higuchi, Ph.D. '43, professor of pharmacy in our university, an active worker in one of the public health fields to which he has made an outstanding contribution in his endeavor.

Ford scholar Ralph David, son of Ralph Hill, Ph.D. '37, finished his first year at Wisconsin.

Thomas J. Hill, B.S. '38, recently accepted a position as manager of photographic products with Atlantic Gelatin Division, General Foods Corporation, Woburn, Mass. He was formerly associated with Philip A. Hunt Co., as director of photographic research and will continue to act as consultant on photographic problems to the Air Research and Development Command of the U. S. Air Force.

Ervin Hindin, B.S. '51, is employed by the Madison City Health Department as a public health technologist.

Another Badger chemist to have supplemented his training in chemistry with one in law is Harry D. Hineline, B.S. '23, who is with General Aniline and Film Company. His residence: Mt. Vernon, N. Y.

The president and chairman of the board of the Molybdenum Corporation of America is a Badger chemist who holds a B.S. '08, and an L.L.B. '11. His name: Marx Hirsch.

Ralph E. Hirschmann, Ph.D. '50, is a senior chemist with Meck's. The Hirschmanns have two children and are residents of Westfield, N. J.

Harold J. Hlavka, B.S. '26, is with Smith Oil and Refining Company, Rockford, Ill.

Alma Braun Holt (Mrs. Norman), B.A. '20, is teaching chemistry and general science in Ft. Morgan, Colo. She reported that she expects to retire in a few more years.

Reed A. Howald, Ph.D. '55, holds an instructorship in chemistry at U.C.L.A.

Some eight Badger chemists are members of the Forest Products Laboratory staff in Madison. Clarence E. Hrubesky, M.S. '24, is one of them.

Bruce W. Hubbard, B.S. '23, is vice-president of Ideal Roller and Manufacturing Co. He is a resident of Oak Park, Ill.

Some of the "old timers" who faced the late Prof. Richard Fischer on

(continued on page 13, col. 1)

Edward L. King

Associate Professor



North Dakota-born King sought his higher education in California, at Berkeley, where, upon graduation in '42 he was appointed teaching assistant. This arrangement continued for two years after which, while an assistant in a Manhattan District project, he finished his formal education, Ph.D. '45. In 1946, after having served for one year as research associate, he joined the Harvard faculty as research fellow and lecturer, a position which led to an instructorship the following year. Then he came to Wisconsin as assistant professor; and in 1953 was promoted to his present rank. His research interests: complex ion equilibria, rates and mechanisms of reactions in solution; his teaching activities: freshman chemistry, senior seminar.

This 'n' That -

(continued from page 12)

an oral examination for a higher degree had wondered why he would at times ask a question of them in pharmacy. Winfield S. Hubbard, Ph.D. '12 (retired), is one of that number; and he found the answer on reading our memorial (Newsletter 3) on him.

Monie S. Hudson, M.S. '39, is operating a consulting service in Spartanburg, S. C., which specializes in wood and wood products.

Erwin O. Huebner, M.S. '27, is in charge of the Wisconsin State Dairy and Laboratory Two of his assistants are Badger chemists.

Clayton Huggett, B.S. '38, is a laboratory head with Rohm and Haas.

Harry N. Huntziker, Ph.D. '32, is now executive vice-president with American-Marietta Co., and Loren C. Hurd, Ph.D. '29, who recently left Rohm and Haas Co. after a 20-year affiliation with it, is now president and a director of Metals Disintegrating Co., Inc., Elizabeth, N. J. Dr. Hurd will be remembered by "quant." students of some 25 years ago when he was an instructor at Wisconsin.

Tennessee-born James K. Hunt, Ph.D. '26, retired on July 31 as technical and educational adviser of Du Pont's public relations department after 30 years with the company. For eight years following gradu-

ation from Alabama State Teachers College he held administrative positions in the elementary and secondary schools of this state after which he did his bit, as chemist, in the war effort. Two years as a high school principal in Tuskegee were followed by enrollment as a student and concurrent services as an instructor in mathematics at Alabama Polytechnic Institute. Upon graduating with a B.S. in chemical engineering, he took his first step in becoming a Wisconsin alumnus via an assistantship in chemistry; and achieved his goal with an assist from the Du Pont fellowship. For many years he was a research chemist in Du Pont's Chemical Department at the Experimental Station where he worked on, and later directed, research on a wide variety of subjects, including paints, varnishes, lacquers, drying oils, cellulose derivatives, coated fabrics, and textile finishes. In his more recent career he has been active in local and national affairs of the ACS and the National Science Teachers Association. He has been particularly interested in the educational activities of professional organizations, including the Science Fairs which have now become annual affairs.

Robert Hyzer, B.S. '38, is chief chemist with Petro-Tex. in Houston, Texas.

One of ye editors last chores before leaving Madison last August for Europe was to check up on the whereabouts of Catherine Inganhutt, B.S. '32. Three Sundays later he found his answer, in person; Catherine and her mother, while on a three months tour of Europe, were stopping in the same hotel in Edinburgh at which the Schuettes had registered. It was a pleasant reunion. We learned that she is a research technician in Tulane University's Medical School in New Orleans.

With a 30-year service record to his credit—and the possessor of 13 military awards, one of which is a Croix de Guerre avec Palme—Robert N. Isbell, Ph.D. '31, retired at year's end in 1955 with the permanent rank of colonel, U. S. Air Force. If his plans, as announced last November, have materialized, the Isbells are on tour, by trailer, through the states, Canada, and Mexico. Just before this year is up they will tour Europe by car with Naples as their tentative point of departure. That phase of the colonels' retirement plans completed, they may remain in Europe as students again—perhaps Sorbonne or Oxford—or return home to the academic life once more.

Michael Wm. Klein

Associate Professor



Organic chemist Klein did his undergraduate work at Lawrence College, B. S. '21; and that fact makes him the lone representative of a Wisconsin liberal arts college on the staff. He began his career as a teacher in 1924 as an assistant in chemistry to the late Louis Kahlenberg under whom he did graduate work for the M.S. degree. He completed his graduate studies in 1924 under the tutelage of Richard Fischer in organic chemistry. His faculty status began that same year as instructor. His research interests lie in the field of azo dyes and the terphenylindizoids. Among his hobbies, now curtailed for health reasons but not abandoned, is gardening, particularly the growing of "glads".

Masashi Itano, B.S. '49, achieved his objective in medicine at Wayne University: M.D. '54. From an internship in San Francisco hospital he went to Korea where, as of last December, he is serving with the armed forces.

Exactly 40 years ago the late Prof. Louis Kahlenberg affixed his signature of approval to the bachelor's thesis of the son of a pioneer Madison physician. Of its subject matter—it was a physical chemistry study of sodium hypochlorite as a disinfecting agent—it might be said, with a little imagination, that it was prophetic of his future activities. Today, in his home town, this Badger alumnus, Arnold S. Jackson, B.A. '16 and M.D. '19 (Columbia), heads a large, family-founded clinic whose permanent staff numbering 23 physicians and surgeons is housed in a new multi-thousand-dollar building adjoining Methodist Hospital with which it has been affiliated since 1920. Busy Dr. Jackson is not without hobbies. Writing and travel are among them, and a third stems from the latter. He noted while in Paris some five years ago that although its soot-covered buildings needed a good job of sand blasting, yet its streets and walks were freer of litter than are Madison's. The result: The organization of Beautiful Madison, Inc., whose motto is "Keep Madison Clean". The drive to achieve this goal is spearheaded by its president, Dr. Jackson. Honors and recognition have

(continued on page 14, col. 1)

Edwin M. Larsen

Associate Professor



Inorganic chemist Larsen, upon graduation from the Chemistry Course, B.S. '37, took a job with an eastern chemical company with little idea that some day he would again be on the Wisconsin campus. After a year's experience, however, he apparently decided that graduate work offered more in the long run. And so, with a reduction in income, he accepted a teaching assistantship at Ohio State University; and remained until he had won the Ph.D. degree in '42. That year he was to have the opportunity of returning to Madison as an instructor. It was an assignment, however, which was to last only a year for in 1943 he was asked to join the development of the Monsanto-administered part of the Manhattan District project at Dayton, Ohio. It was three years later before he returned to his Alma Mater now as an assistant professor. Four years later he was promoted to his present rank. His research interests are: the transition elements, their coordination compounds and their reduced states.

This 'n' That -

(continued from page 13)

come to him, the most recent being election to the presidency of the U. S. Section of the International College of Surgeons.

Herbert P. Jacobi, B.S. '37, Ph.D. (biochemistry) '41, is chairman of the department of biochemistry of Nebraska's College of Medicine in Omaha.

Robert A. Janke, B.S. '50, is with the chemical division of Corn Products Refining Company and is acting as its midwest sales and technical representative.

Jack H. Jefferson, Ph.D. '55, holds an associate professorship on Southern University, Baton Rouge, La.

Robert H. Jenson, B.S. '42, is chemist functioning in a supervisory capacity at Midwest Tanning Company, Milwaukee.

Harold Jeskey, Ph.D. '42, on completing his twelfth year at Southern Methodist University, has been promoted to a full professorship. Wertheim's "Introductory Organic Chemistry" now in its third edition appears under joint authorship with Dr. Jeskey who revised it.

Add another Badger alumnus in

the visiting hireman category, research chemist Don H. Johns, Ph.D. '54, scouting Wisconsin graduates for American Can Co. last April.

Two years after graduation from the Chemistry Course, Alfred J. Johnson, B.S. '16, entered the employ of Du Pont, and he has been with them ever since. He now has a senior research chemist's rating in organic chemistry in their Jackson Laboratory. He also contributed a chapter to Lubs' "The Chemistry of Synthetic Dyes and Pigments"; his subject, the indigoid dyes.

In the analytical section of Phillips Petroleum research and development department will be found Clarence E. Johnson, B.S. '52. His ambition is to move up a step on the academic ladder and to that end is doing some graduate work at Oklahoma.

Harold G. Johnson, Ph.D. '41, a Beloit graduate before enrolling in Wisconsin's Graduate School, is director of Monsanto's development department in the research and engineering department.

The Paul R. Johnsons, B.A. '34, enrolled their daughter Betty Helen at Wisconsin last semester, "but alas", wrote her father, (she) "may not be a chemist". He is a division head in organic chemistry at Du Pont's Jackson Laboratory.

Francis J. Johnston, Ph.D. '52, is a member of the chemistry staff of the University of Louisville; his rank, assistant professor.

Jean Balch Jones (Mrs. R. E.), B.A. '49, married a chemist who is in physical research with Nopco Chemical Co., Harrison, N. J. The Joneses have two children aged three and two, respectively, who, Jean reported, provide her with ample occupation.

John F. Jones, M.S. '52, is a project leader at B. F. Goodrich Research Center, Brecksville, Ohio.

One copy of Badger Chemist serves the G. D. Jones family in Midland, Mich., where "Giff" is a research chemist with Dow Chemical Co. He left the campus with a B.S. '39, and later enrolled at Illinois where he won his Ph.D. degree. Marian became a chemistry course graduate in '42.

Merle E. Jones, B.S. '49, M.S. (Calif.) '51, is with General Electric's Knolls atomic power laboratory.

Lothar A. Joos, B.S. '37, practiced chemistry for a while and then qualified for a position in the U. S. Weather Bureau. He recently left his post in the Madison Station for one in the research center on climatology on the Illinois campus, Urbana.

Daniel L. Leussing

Assistant Professor



The three milestones in the post-high school education of analytical chemist Leussing are marked Cincinnati '45, Illinois '47 and Minnesota '53. Upon obtaining the Ph.D. degree, Dr. Kolthoff being his major professor, he spent a year at American Cyanamid Company and two as instructor in analytical chemistry at Massachusetts Institute of Technology. In 1955 he joined the Wisconsin faculty as instructor and this year he was advanced to his present rank. His research interests: co-ordination compounds and acid-base relations.

Arlie P. Julien, Ph.D. '24, is chief of research with Solvay Process Division, Allied Chemical and Dye Corporation.

Frederic T. Jung, B.S. '19, after leaving the campus, went on to the University of Chicago for his Ph.D. '25; then enrolled at Northwestern where he acquired an M.D. '32. He is now director of the physical laboratory of the American Medical Association.

In the name Kahlenberg we have an instance of three successive generations of Wisconsinites to have entered the field of chemistry, each with a Ph.D. degree. The first member of the family is Louis, B.S. '92, M.S. '93, and PhD (Leipzig) '95. He is the first Badger chemist to have been appointed to a fellowship in the department and the first alumnus to have served as its chairman. His son Herman H., Ph.D. '25, is owner and scientific director of the laboratory in Sarasota, Fla., which bears the family name, and grandson Eilhard N., a Texas Ph.D., is associated with his father in the capacity of director of research.

Lee H. Kalbus, Ph.D. '54, for a short time with Solvay, is now a private in the U. S. Army and is stationed at Watertown Arsenal. Mrs. Kalbus gave birth to a son early in February, 1955.

Another employee at the above arsenal is Arthur S. Kant(rowitz), B.A. '38, Ph.D. '51 (Carnegie Tech.), who heads the nucleonics branch there.

A daughter Kiko, meaning chrysanthemum, was born to the Fred Kawaharas, Ph.D. '48, within the past year.

Kenneth E. Keller, BS '51, has a (continued on page 15, col. 1)

This 'n' That --

(continued from page 14)

purchase chemist's rating with Oscar Mayer and Co., Madison. A little sister joined the Kellers' two-boy family last October.

Richard T. Keller, M.S. '51, taught for one year at the University of Mississippi and then matriculated at M.I.T. where he won his Ph.D. '55. He is a research associate with General Electric.

M. Hanif Kahn, Ph.D. '52, is in charge of the main laboratory of The Attock Oil Co., Ltd., in Rawalpindi, Pakistan.

"Really enjoyed catching up on so many of the old friends (mentioned) in the last issue of Badger Chemist", wrote Leon K. Kiley, M.S. '50. Leon entered the employ of Dow Chemical as an infrared specialist. He is now in charge of Dow's spectroscopy laboratory.

At the Archer - Daniels - Midland new plant in Ashtabula, Ohio, will be found chief chemist Ernest I. Kinney, M.S. '47.

Maurice E. Kinsey, Ph.D. '31, is vice-president in charge of plant operation with Tee Pak, Inc., makers of cellulose sausage casings of the type used in the process of making skinless wieners.

Allen R. Kittleson, B.S. '37, heads a group at Esso's chemicals research division experimenting with polymers from petroleum. He joined Esso upon graduation from college; took time out for services with the Armed Forces during which period he rose from second lieutenant to major; returned to his employer where he was assigned to an agricultural project which proved to be successful.

Elmer F. Klug, M.S. '32, left the employ of Pittsburgh Plate in 1944 to take over the Klug Funeral Livery in Milwaukee and in 1951 organized The Klug Products Co., a woodworking business. He operates both.

Rudolph W. Kluiber, Ph.D. '54, is employed by Bakelite Co., Division of Union Carbide and Carbon.

The outbreak of World War II in a sense marked a turning point in the life of Naomi Yolton Knight (Mrs. Edwin G.), B.S. '36. With several years' experience at the Mayo Clinic behind her and graduate work in endocrinology at Minnesota carried to the point where she had passed her orals for the Ph.D. degree, she married. She has been assisting her physician-surgeon husband for the past four years. The Knights, who live in Swanville, Minn., have two children.

Walter E. Kramer, B.S. '43, com-

J. Howard Mathews

Professor Emeritus



Physical chemist, ex-chairman Mathews was the first of the late T. W. Richard's students—at one time there were three—to have held a professorship in the Department. He arrived in Madison as a student in 1899 at a time when the enrollment in the University stood at about 2500, and three men of professorial rank comprised the chemistry faculty. Exactly 20 years later he reached the top of the academic ladder and then, as the new chairman of the reorganized Department, he began a service to his Alma Mater which was to be a distinguished one; one which ended upon his retirement 33 years later. It is a record of tenure which, probably, will not be equalled in the foreseeable future. Sandwiched between his graduation, B.S. '03, and his return to the campus as assistant in physical chemistry is a year spent in Milwaukee as an industrial chemist. Then, armed with his second Wisconsin degree, M.A. '05, he left for Harvard with the Ph.D. degree his objective. Upon acquiring his first degree there, A.M. '06, he spent one year as instructor in Case School of Applied Science, and then resumed his graduate studies. Upon completing them in '08, he returned to Wisconsin with the rank of instructor in charge of the laboratory work in physical chemistry. Three years later came his first promotion. After that he left the campus only long enough to serve during World War I in the Ordnance Department, U. S. Army. He reached the rank of major at the time of his return to civilian life in 1919.

His research interests include: thermal chemistry, colloids—the foundations for the present excellent reputation which the Department now enjoys in this field were laid by him years ago—and scientific methods of crime detection. The data personally collected by him in this field over the years have been woven into lectures which he has given by invitation to uncounted audiences from coast to coast and border to border. He is one of the founders of Alpha Chi Sigma, professional chemistry fraternity, and a past president of this organization.

pleted his formal education at Purdue in 1950. He is now a research

chemist with American Can Company in its new research center, Barrington, Ill.

Beverly Marie Knower, B.S. '49, is another alumna who has taken up library work. She is technical librarian with Sun Oil Company, Marcus Hook, Pa.

A daughter, Janet Elaine, joined Pamela Jean on 28 November 1955 to make the W. F. Koerners (Ph.D. '49 and B.S. '45, respectively) a two-girl family.

Oran M. Knudson, B.S. '33, has been an educator since acquiring his Ph.D. (N.Y.U.) '38. He has taught at three different schools before moving to his present post at Rose Polytechnic Institute, Terre Haute, Ind., where he is professor of chemistry and head of his department.

Stephen Kraychy, Ph.D. '55, is a research chemist in the division of steroid metabolism of Sloan Kettering Institute for Cancer Research. He is married to the former Mary E. Mills, M.S. '55.

Chas. J. Krister, M.S. '37, is manager of technical development in Du Pont's Grasselli department. The local school board and a new branch YMCA have provided him with extra-curricular activities. He has also served on the food protection committee of the National Research Council, and one sponsored by the American Road Builders.

Edwin H. Kroeker, Ph.D. '34, is one of the fairly large group of Badger chemists with Rohm and Haas Co. He describes himself as the father of three sons; personnel and stage manager, with his wife, of a Gilbert and Sullivan troupe for 18 years; a Scout who rose to a district commissionership; a "sundown farmer" living on a rural route out of Ivyland, Bucks Co., Penna.

Clarence J. Krueger, B.S. '27, is general manager of manufacturing in the paint and brush division of Pittsburgh Plate Glass Company, Gateway Center, Pittsburgh.

Our Ph.D. alumni files contain a fair number of those who elected to make the chemistry of wood (Forest products Laboratory) their major. Ervin F. Kurth, Ph.D. '33, is one of that group. He has been at Oregon State College since 1945, and holds a professorship there. He wrote that Oregon State offers a course in forest products chemistry (wood and pulp and chemistry) and that theirs is the only institution west of Appleton, Wis., offering such a program.

In Wausau, Wisconsin, serving as assistant technical director with Marathon Battery Company will be (continued on page 16, col. 1)

This 'n' That --

(continued from page 15)
found chemistry course graduate
Robert F. Kusel, B.S. '36.

Edw. C. Kwasniewski, B.S. '32, is chemist, operating improvement research, with National Aniline Division, Allied Chemical and Dye Corporation. It appears that his 19-year-old son is headed for a career in chemistry. A year at R.I.P. completed, he is now working as a laboratory assistant at National.

Three years after Frederick W. Laird, Ph.D. '28, graduated from Wisconsin, St. Louis University School conferred upon him the M.D. degree. He is now practicing in Seattle in obstetrics and gynecology.

Risto P. Lappala of the Bjorksten Research Laboratories, Madison, took part in the world symposium on applied energy held last October in Tucson and Phoenix. Title of his paper: Development of plastic solar stills for the large-scale low-cost demineralization of saline waters by solar evaporation.

Wilbur A. Lazier has informed us that he has been happily settled for the past two and a half years in the Berkshires of western Massachusetts and is taking a keen interest in new opportunities for outdoor life. And in the meantime he keeps in touch with friends in New York through its Association of Research Directors.

After getting his first degree, Ph.B. '45, at Wisconsin, Robert L. Leaf, Jr., earned an M.S. '49 at Lawrence College's Institute of Paper Chemistry. He is now a vice-president with Shawano Paper Mills in the Wisconsin city of this name.

Edward T. Lessig, Ph.D. '29, is manager of textile development with B. F. Goodrich Company, Akron.

Donald R. Lewis, a three-degree Badger (Ph.D. '48) is senior chemist with Shell Development in Houston in work that involves radiation chemistry and inorganic physical chemistry applied to geological problems, and Sumner Levine, Ph.D. '49, is now also a senior chemist with Westinghouse's commercial atomic power division.

William E. Link, Ph.D. '54, has won his first promotion at Archer-Daniels - Midland Co., Minneapolis. He now heads the analytical section there.

William E. Loeb, Ph.D. '54, is research chemist in the process development department of Carbon and Carbide Company, South Charlestown, W. Va.

For John G. Lofstrom, an analytical research chemist is Du Pont's

Samuel M. McElvain

Professor



Author, consultant McElvain hardly needs an introduction to Badger chemists who have passed through the organic chemistry division of the Department during the past 30-odd years. He is a product of Roger Adams' laboratory, Ph.D. '23 Illinois, and the only representative of that school on the staff. His post-high school training began at Washington University (St. Louis), B.S. '20. He arrived on the Madison scene in 1923 and ten years later reached his present rank. During his rise up the academic ladder he popularized the course on the characterization of organic compounds, wrote a textbook on this subject, trained a host of Ph.D. students, served the division of organic chemistry of the ACS as chairman, was consultant to the National Defense Research Committee (1942-1945), and was issued several patents on local anesthetics. He is a member of the National Academy of Science.

His research interests are: relation of structure to pharmacological action; ketene acetals, and active constituents of natural products.

photoproducts laboratory, the year 1954 was a memorable one in three respects. He (a) won his Ph.D. degree that year, (b) bought a house in August, and (c) became the father of a son, John Robert, on October 22. The Lofstroms are living in Metuchen, N. J.

Badger Chemist now has, in a modest sense, a world-wide distribution. Somewhere in each of the continents there lives a Chemistry Department alumnus. James A. Lounsbury, B.A. '22 and M.S. '23 (botany), is one of them and he lives in Pretoria, South Africa, where he is head of the Bureau of Adult Education in Technical College. He gave up his assistant professorship in Marquette University some 23 years ago in order to develop a program of adult education and visual education at his present post.

Richard N. Lovett, B.S. '40, M.S. (Chem. Eng. M.I.T.) '43, is a research chemical engineer with Socony Mobil Oil, at home in Woodbury, N. J.

Jas. T. Lowe, B.S. '30, Ph.D. (biochemistry) '35, is director of nutri-

tional research with the Nestle Co., Inc., White Plains, N. Y.

Roger H. Lueck, M.S. '21, reported last fall that his employer, American Can Co., had just completed a new research laboratory at Barrington, Ill., and that next door Quaker Oats—of which F. N. Peters, Ph.D. '25, is a vice president—is doing likewise.

Lester G. Lunsted, Ph.D. '42, is director of chemical research with Wyandotte Chemicals Corporation.

George B. Lyons, B.S. '21, heads the science department of Kohler (Wis.) public schools. He added an M.S. (Chicago) degree in school administration to his first one in '34.

Donald W. MacCorquodale, Ph.D. '28, is head of biochemical research at Abbott Laboratories, North Chicago.

New Zealander Alan G. MacDiarmid, Ph.D. '53, has returned to the States after having added a Cambridge Ph.D. degree to his string, in '55. He held a temporary assistant lectureship in chemistry at Queens College, University of St. Andrews, before taking up his new post, an instructorship, at the University of Pennsylvania. The MacDiarmids announced the birth of a daughter, Heather, on November 7, 1955.

When Thomas E. Marfing, B.S. '41, found himself on graduation the possessor of a diploma and a second lieutenant's commission, he decided to make the U. S. Army his career and to do it by capitalizing on his training in chemistry. Now a lieutenant colonel, Chemical Corps, his service record includes several tours in research and development activities, such as the Technical Command, Army Chemical Center, Md., and Research and Development Division, Department of the Army, Washington, D. C. His current duty is in Combat Developments Section, Continental Army Command, Fort Monroe, Va. He will soon leave, we understand, to attend Harvard's Graduate School of Business Administration for approximately two years. The Marfings have two children, a daughter and a son.

In our last newsletter we welcomed to the ranks of the Badger alumni, on probation, Capt. Dick R. Markwell, M.S. (Wichita) '49. He is now one of us in fact in that he successfully completed the tour of duty on which he had been sent to Wisconsin: to qualify for the Ph.D. degree. He has now an Aberdeen, Md., address which we presume means that he is at the Army Chemical Center.

Sylvia Gerland Martin (Mrs. R. (continued on page 17, col. 1)

This 'n' That --

(continued from page 16)

C.), B.S. '44, returned her questionnaire from Saudi Arabia last April where her husband is employed by Arabian American Oil Co. Her reply, written a month after her arrival, revealed that they were then living in Al Khor, an Arab village, until company housing would be available in Dhahran.

Frederick Mathews, Ph.D. '43, is now an associate professor at Beloit College. The Mathews have a two-year-old son.

Florence Renich Mathias (Mrs. L. D.), B.S. '17, found her training in chemistry to be her anchor to windward when she was left alone to raise and educate her children; and she did that by sending them to Vanderbilt and Ward-Belmont in her home city. She was at one time chemist with Victor Chemical and later spent seven very interesting years teaching general and analytical at the latter college.

At the University of Texas F. A. Matson, B.A. '37, Ph.D. (Princeton) '41, doubles in chemistry and physics. He holds a professorship in both fields.

Helene Matsen, B.S. '25, rose in two years from assistant chief to chief librarian at Esso Research and Engineering Company. Faithful, efficient service which began at the abstractor's level, after five years as analytical chemist with the former Burgess Laboratories of Madison, has been fittingly rewarded. Miss Matsen heads a staff of 26 employees working in the 40,000-volume technical library of the company's patent division.

Frank T. McClure, Ph.D. '42, is chairman of the research center in the applied physics laboratory of Johns Hopkins University.

Patricia McFerren, B.S. '44, holds the position of quality control engineer with Eastman Kodak; her address is 832 Warren Way, Palo Alto, Calif.

Geo. H. McGregor, B.S. '26, M.S. (chem. eng.) '29, is general superintendent at Columbia River Paper Mills, Vancouver, Wash. He has been in the paper business since graduation.

At least one Badger chemist is known to grow orchids as a hobby but Johnson Wax Company's basic research director, Elbert S. McLoud, B.S. '31, M.S. '35, grows larger plants, i.e. trees as a reforestation project, on two parcels of land in northern Wisconsin. As owner of some 3,000 acres, he has to date planted 150,000 trees on 240 acres of his holdings.

John L. Margrave

Assistant Professor



The second native of Kansas on the chemistry staff, but the only alumnus of its state university, is John Margrave, B.S. '48. Honors came early to him in his college days in that as freshman and again as a sophomore he was appointed to receive the Summerfield Scholarship. His college education was interrupted in 1943 by a three-year service in the Signal Corps, U. S. Army; and during part of this time he was in charge of the telephone exchange at the Army's installations in Frankfurt, Germany. His tour of duty over, he returned to the Kansas campus — and his former scholarship — to take up his studies where he left off and later, to enroll in the graduate school. Then, armed with a Ph.D. '51, he spent one year at California as an AEC fellow. In 1952 he joined the Wisconsin faculty as instructor and two years later he was advanced to his present rank.

His research interests: high-temperature chemistry, peroxides and superoxides, fluorine chemistry. With other staff members he conducts the seminars in inorganic and physical chemistry; he teaches a course in advanced inorganic chemistry besides lecturing to the freshmen; and directs research projects for the U. S. Bureau of Ships, the U. S. Air Force, and the Office of Ordnance Research.

Lester R. McNall, B.S. '50, completed his formal education at U.C.-L.A. where he won his Ph.D. '55, in organic chemistry. He is now a research chemist at Esso Research and Engineering Company.

"Have been enjoying the Badger Chemist. Hope you can keep it up" are the only words written on a don't-say-it-write-it office form, with which David M. McQueen, Ph.D. '33, replied to our questionnaire. From reliable sources we have learned that he is director of research in DuPont's chemical department in the experimental station and that he has been with his present employer since January 1, 1934.

Jacob J. Menn, B.S. '47, has a technologist's rating at Shell Chemical Corporation, Martinez, Calif.

In Madison, and elsewhere in the midwest, the name Meyer, and its homonym Mayer, suggests the brand

name of either one or both of two food products: the one Red Dot potato chips, the other Yellow Band wieners. On the scientific personnel roster of meat packer Oscar Mayer and Company will be found the names of several Badger chemists and directing the affairs of Red Dot Foods, Inc., is its founder, Frederick J. Meyer, B.S. '32, one for whose needs the now defunct Chemistry-Commerce course seems to have been tailor-made. Exactly 25 years ago while still a student he married and, in need of a job to support himself and his young wife, began thumbing through the pages of a magazine named "Opportunity" for suggestions. The idea of going into sales appealed strongly to him when the depression was still a pup. He gambled \$22 of his scanty capital for the purchase of his first stock in trade and found himself in the potato chip business as a salesman. Space limitations do not permit of an account of how he soon became a manufacturer of potato chips with a second-hand machine for which he paid \$50, nor a description of the metamorphosis of his venture which he successfully guided from a struggling infant during the days of the bank holiday and the worst depression which the country had ever known, to the present seven-factory organization which annually processes the produce of some 18000 acres of potato land in Wisconsin, Alabama, and Missouri. And it all started when young Fred Meyer, with a wife he had to support and a University education to complete found his opportunity in the form of a magazine which had knocked at his door!

We were pleased to be able to remove the name of Claire Olsen Meyer (Mrs. A. A.), B.S. '46, from our "lost alumni" list. She is living in Milwaukee at 2820 S 70th, Zone 14. Last Christmas had an added significance for the Meyer family; they moved into their new house.

Returned to civilian life after over four years service in the U. S. Army is Carlton H. Miller, B.S. '51, who joined the staff of Paul-Lewis Laboratories, Milwaukee, last February.

Max W. Miller, Ph.D. '50, is research chemist with Chas. Pfizer and Co., Inc., and is living in North Stonington, Conn. He is married to Wisconsin alumna Virginia S. Diekmann, M.S. '49.

DuPont's research chemist Meredith Miller, Ph.D. '50, is living in Richmond, Va. The Millers are a boy-girl family.

Marjorie Gilbert Moldenhauer
(continued on page 18, col. 1)

This 'n' That --

(continued from page 17)

(Mrs. Jas. G.), B.S. '52, is now living in China Lake, Calif., where her physicist husband (M.A. '54) is with the air weapons division of the rocket development department, NOTS, and she has a senior chemist's rating in the liquid propellant weapons division.

Elizabeth Montabon, B.S. '55, was last reported as holding an instructorship at the Milwaukee Extension.

Mildred E. Morgan, Ph.M. '31, has been teaching science in Ottawa Township High School, Illinois, since she left the Madison scene.

Edward Morsbach, B.S. '23, is a patent lawyer in Rockford, Ill., with offices in the City Hall building.

Another chemist-turned-lawyer is Carl W. Mortenson, Ph.D. '40, LL.B. Temple University. Ex-DuPonter Mortenson, since May '55, opened his own office in Wilmington for the general practice of law but specializes in patent, trademark, copyright, and anti-trust laws.

And still another Badger who is not now following chemistry is Wm. J. Mountain, B.A. '22, M.B.A. (Harvard) '25. He is deputy comptroller of the 12th Naval District, San Francisco 16.

Patricia H. Moyer, Ph.D. '54, is research chemist with Clevite Research Center, Division of Clevite Corporation. With the arrival of Stanley Alan on November 16, 1954, theirs became a two-child family.

Richard D. Mullenax, Ph.D. '51, is one of a group of Badger research chemists with Shell Development Company, Emeryville, Calif. His problem: free radical reactions.

Charles R. Naeser, B.S. '31, Ph.D. (Illinois) '35, is a member of George Washington University's chemistry department which he is serving as executive officer. He is currently also chairman of the Chemical Society of Washington and national committee chairman of Alpha Chi Sigma on awards.

Donald H. Nelson, B.S. '42, is with A. O. Smith Corporation, Milwaukee, and Norman A. Nelson, Ph.D. '52, holds an assistant professorship at M.I.T.

John A. Neptune, Ph.D. '52, resigned his instructorship in pharmacy to accept an assistant professorship in San Jose State College, California. A son, Benjamin, joined the family on October 11, 1955.

W. Robert Neuendorf, M.S. '52, has fulfilled his obligations to the Armed Forces and is now a development chemist with Dow Chemical.

Leon J. Nesvacil, B.S. '52, is em-

Villiers W. Meloche

Professor



Villiers Meloche, a protege of the late Victor Lenher in analytical chemistry, is one of the several graduates of the Chemistry Course who have either returned to the campus or have remained here to serve the University. He is, also, one of the several other pairs of brothers who are Badger chemists too; but here the similarity ends for it is only the Meloche brothers who are members of the teaching profession. He is a three-diploma alumnus by virtue of degrees earned in the period beginning with a B.S. in '21 and ending in '25 with the doctorate. The rapidly expanding instrumental section of the analytical division which he now heads owes its popularity and success in large part to the planning and the attention given it, practically from its founding some 30 years ago to the present, by Dr. Meloche. He has been the guiding hand of the Department's placement committee from its founding some 35 years ago, and as its chairman has helped place hundreds of Badger chemists in industry and education. On the extra-curricular front he has a long record of service to the University Y.M.C.A. as officer and board chairman; he has been president of the University Club and national president of Alpha Chi Sigma chemical fraternity. He is also active in ASTM as chairman of sub-committee E-2.

His research interests: emission spectroscopy, flame photometry, spectrophotometry, ion exchange, hydro chemistry, and analytical instrumentation.

ployed by Shell Chemical Corporation, Denver.

James C. Nichol, Ph.D. '48, is associate professor of chemistry at Willamette University, Salem, Ore.

His meritorious services to the Federation of Sewage and Industrial Wastes Association won for M. Starr Nichols, B.S. '16, Ph.D. (physiological) '26, the 1955 Charles Alvin Emerson Medal. He is assistant director of Wisconsin's state laboratory of hygiene.

Jerome J. Oleson, B.S. '36, went over to biochemistry upon graduation; earned his Ph.D. in this field, and is now in American Cyanamid's research division.

Betty Deutsch Olleman (Mrs. R.

D.), M.S. '47, informed us last Fall that she had "retired" from Koppers Company's research laboratory, Verona, Penna., in March 1933, and was living in Spokane, Wash.

Maynard H. Olson, B.S. '51, is a "3M" chemist at its St. Paul, Minn., plant; and William J. Olson, B.S. '41 — his Ph.D. degree was conferred in biochemistry — is director of research with Fleischmann Malting Co., Chicago.

Marshall V. Otis, B.S. '42, is a senior chemist on the physics research staff of Tennessee Eastman Kodak Company, Kingsport. He is working in the field of spectroscopic analyses involving infrared, ultraviolet, fluorescence, and x-ray diffraction. He is chairman of the ASTM subcommittee on infrared absorption data and is active in the project to abstract the literature and to build a reference library on absorption data coded on IBM punch cards.

James R. Owen, Ph.M. '37, is one of some seven Badger chemists among Phillips Petroleum's scientific personnel. A mid-year graduate, he has been with his present employer ever since having left the campus and is now a group leader in the research division in charge of catalyst-development work.

Dean L. Owens, B.S. '42, is technical representative with Rohm and Haas Company on the west coast and is living in Los Angeles.

D. D. Palm, B.S. '42, is production coordinator at the Doe Run plant of Olin Mathieson Chemical Corporation; his home, Brandenburg, Ky.

Howard B. Palmer, Ph.D. '52, has left Brown University where he held an instructorship and is now an assistant professor of fuel technology at Pennsylvania State University.

Tillman H. Pearson, Ph.D. '51, has left Hampden-Sydney College, Virginia, and is now living in Baton Rouge, La.

H. K. Pestalozzi, B.A. '21, is a member of Milwaukee's Washington high school staff.

Donald L. Petitjean, Ph.D. '54, is research chemist with Aluminum Company of America. The three-daughter Petitjean family is living in Natrona Heights, Penna.

Earl W. Phelan, a graduate student back in the early twenties, chose to continue his studies at Cornell where he graduated Ph.D. '28. A 22-year term as head of the chemistry department of Valdosta (Ga.) State College completed, he is now liaison assistant to the associate

(continued on page 19, col. 1)

This 'n' That --

(continued from page 18)

laboratory director of Argonne National Laboratory.

John A. Pianfetti left Illinois with a B.S. '30, then Wisconsin with an M.S. '33, and finally Purdue with his Ph.D. '41. Now he is with Westraco Chlor-Alkali, South Charleston, W. Va.

The career of (Harry) McKay Pier, B.S. '22, is a chemistry-to-medicine story. Eight years after graduation he received his M.D. at the University of Chicago. He is practicing medicine in Oakland, Calif.

Homer Piper, B.S. '14, of the Haloid Company, Rochester, N. Y., appears to have found a happy formula for corporation board chairmen to follow. He wrote that about three years ago he had turned over most of his responsibilities to his "three good right hands"; that now he is in a position to take vacations "ad lib"; and that he puts in reasonably short hours. The balance of his time he spends in his yard and a little farm about 15 miles outside of Rochester.

Herbert E. Pleuss, B.A. '37, is chief chemist with Heresite and Chemical Co., Manitowoc, Wis.

Ruth Meyer Polin, M.S. '50, used her training in chemistry until 1954 at the central research laboratory of Allied Chemical and Dye Corporation. Then she married biochemist Donald Polin. The next year a daughter, Barbara, was born to the Polins who are now living in Roselle, N. J.

Barbara Hinderer Polister (Mrs. Richard), M.S. '49, and her husband are now making their home in Lafayette, Ind., where she is an infrared spectroscopist for Purdue's chemistry department and he is supervisor of the university's Motion Picture Production Unit. Before their move to Indiana they (a) had spent two years in Los Angeles where Barbara did biochemical research for the atomic energy project at U.C.L.A. while her husband was doing graduate work there, and (b) had been residents of Minneapolis, he as a staff member of the University of Minnesota and she an employee of General Mills.

Procter and Gamble's research chemist, Oscar T. Quimby, Ph.D. '38, was a campus visitor last May. He discussed the soluble crystalline polyphosphates before the chemistry colloquium.

The name of Gorman L. Quinn, Ph.D. '51, appears on the list of Wisconsin graduates employed by the DuPont Company as "inter. res.

Henry A. Schuette

Professor

Emeritus



The subject of this sketch discovered in his high school days that chemistry could well be made his metier. Thanks to the tutoring in German by his grandfather, an understanding principal had permitted him to substitute another subject for this language, a required one in the modern classical course which he was pursuing. On graduation he made another discovery, one which was not unexpected, however; a college education would be his only by his own efforts. Four years later, his days as a rural teacher over, he was ready, financially, to enroll in the University. During his senior year, while speculating upon the possibility of obtaining employment in a Federal agency in order to do his bit as a chemist in the enforcement of the Pure Food and Drug law of 1906, help came from unexpected sources. The late Richard Fischer offered him an assistantship in the field upon which he had set his heart, graduate work. Professor Fischer soon delegated to him the courses in organic analysis, water and gas analysis, and the chemistry of foods and their adulteration. His first promotion came in 1914, two years before he was ready for the doctorate. He was made professor in 1936.

During his time he changed the content of the course in proximate organic analysis from the qualitative to the quantitative emphasis; trained a host of undergraduates at the bachelor, master, and Ph.D. levels; built up an excellent reputation for the Department in the field of fatty oils and wax analysis; and gave of his time to many extra-curricular activities than can be recounted here, and published a creditable number of papers pertinent to his research interests.

He is a past president of the American Oil Chemists Society and the Wisconsin Academy of Sciences, Arts, and Letters; a member of the group of founding fathers of the Wisconsin Junior Academy of Science with its science talent search in the high schools; a past chairman of the division of agricultural and food chemistry of the A.C.S.; and as its secretary some 26 years ago revitalized the dying division by the traditional shot-in-the-arm tech-

chemist, orchem., Jackson Laby., emp. date 9-1-53".

Jack L. Radomski, B.S. '42, made pharmacology his major field of interest after graduation and then obtained his Ph.D. in this subject at George Washington University. He is now an associate professor in the School of Medicine, University of Miami.

John Rae, Ph.D. '43, is senior chemist with Shell Development Company, Houston. His wife, the former Dorothy Swift (B.S. '41; M.S. '43), at last reports has borne him four children.

It's a far cry from a B.A. (Ripon '36) and M.S. (Wisconsin '38) to manager of a knitting works, but that is the story of Robert G. Rashid of Ripon, Wis.

With the close of the year 1955, Guy A. Ramsdell, M.S. '23, became a retired U.S.D.A. employee. Unless he has changed his plans he has taken up residence in Venice, Florida, "to do lots of fishing".

We suspect that there are only a few octogenarians among our chemistry alumni, but emeritus professor Orland B. Read, M.A. '10, at 84 certainly belongs in that age group. Exactly 27 years of his 40 as an educator were given to Iowa State Teachers College, Cedar Falls. He has been living in Galesburg, Ill., since 1940. His daughter, a Wisconsin Ph.D. alumna, is on the faculty of University of Wisconsin—Milwaukee and his son holds an associate professorship at Columbia.

James A. Reid, B.S. '30, is director of research at Phillips Petroleum Co.

Victor A. Reinders, Ph.D. '35, staff member of the old Milwaukee Extension, has an unusual hobby which he has carried to near perfection. In 1953, when he was named state champion, and was described as a shotgun wizard, he was rated as one of the greatest trapshotters of all time. And, if we may be pardoned for injecting a statistic into the story, it might be of interest to record that, as of the above date, his life-time average on registered targets was 64,027 clay pigeons broken out of 65,400 shot at; his "grade" 97.9.

Mabel Duthey Reiner (Mrs. L.), M.S. '28, BS (library service, Columbia) '43, is with the Institute of Cancer Research, College of Physicians and Surgeons, Columbia University.

(continued on page 20, col. 1)

nique to the point where it began to win back the prominence which it enjoyed for many years after its founding.

This 'n' That -

(continued from page 19)

David C. Remy (cand. Ph.D.) resumed his status as a graduate student in February after a two-year turn of duty with the armed forces. The first year of his army career was spent at Fort Carson, Colorado, and the rest of the time as a medical laboratory technician at the Second General Hospital, Landstuhl, Germany.

Kathora Remy, M.A. '31, has returned to San Antonio, Texas, after an absence of some years while active in hospital and other services connected with the Armed Forces. She is now working as a volunteer coordinator with Texas State hospitals.

Theresa Baughman Rickett (Mrs. H. W.), B.S. '22, is teaching in Catlin-Hillside Schools, Inc, Portland, Oregon.

Phillip A. Ritter, M.S. '15, reached retirement age last Fall and is now an ex-employee of U. S. Rubber, Eau Claire plant.

When the class of 1910 held its 45th reunion in June 1955 and "prizes" were awarded at part of the banquet activities, it was learned that Agnes Challoner Rogers (Mrs. A. J.) carried off honors in the largest-number-of-living-descendants class; four children and 15 grandchildren comprise her contribution to society.

Chester K. Rosenbaum, Ph.D. '30, is a section manager in Du Pont's polycyclics department.

Robert W. Rosenthal, Ph.D. '49 joined Koppers' special research branch in September 1955 as a senior chemist. The Rosenthal's sons are potential members, respectively, of the college classes of '75 and '77.

Robert M. Ross, Ph.D. '48, is assistant to the vice-president for research of Rohm and Haas Company.

Armand J. de Rosset, Ph.D. '39, is with Universal Oil Products Co. and Alfred G. Rossow, Ph.D. '42, is now a staff technologist in General Foods Corporation's research and development department, White Plains, New York.

Have you heard that Donald and Marie Roth, Ph.D. '44 and '52, respectively, now have their first son, born October 2, 1955? Charles Nicholas' dad is a Marquette, M.D.; internal medicine his specialty.

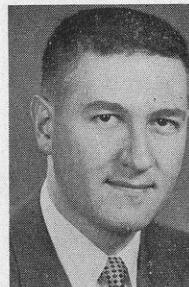
Ira B. Rubin, B.S. '48, is an associate chemist in the analytical chemistry division of Oak Ridge National Laboratory.

In 1954, Theodore A. Rude, B.S. '19, after eight years in Germany, was retired from his position with

Irving Shain

Assistant Professor

Analytical chemist Shain has been a member of the staff since 1952. He holds a B.S. '49 and a Ph.D. '52, the latter degree earned under the guidance of University of Washington's Prof. A. L. Crittenden. Between his graduation and arrival on the Madison campus he served a hitch in the Medical Corps on an Army Hospital ship in both the Pacific and Atlantic oceans. He had reached sergeant's rank at the time of his discharge. His research interests in electroanalytical chemistry have carried him far into electronics. Polarography is another of his interests.



the State Department. He was chief of The Industrial Division, Military Security Board, office of the High Commissioner for Germany. The Rudes are spending their summers in Washburn, Wis., and their winters in Mount Holly, N. J.

The best result that we could arrive at in our attempt at deciphering the writing of Mallinckrodt's vice-president and technical director, John R. Ruhoff, B.S. '29, is that it is certainly good to receive news (via Badger Chemist) about old friends.

Richard Ruka, B.S. '40, is staff assistant at Joseph F. Seagram and Sons, Louisville, Ky.

At last report, Wm. J. Russell, M.S. '41, was no longer working for the U. S. Coast Guard but was a patient in Walter Reed Army Hospital.

Harold K. Salzberg, Ph.D. '29, is section head of the sales department of Borden's Chemical Division. He described his path to his present position in Bainbridge, N. J., as "via Forest Products Laboratory and Mellon Institute."

Russell C. Sawers, B.S. '42, is a laboratory superintendent at Dow Chemical Company, and Ralph Sayre, M.S. '15, is with American Cyanamid.

Correction, please: it is Clyde S. Scanley, Ph.D. '49 and not Stanley, as printed in Badger Chemist '55, who is with American Cyanamid. Typographical error!

Elnora M. Scannell, B.S. '32, is a stenographic reporter with the Wisconsin Industrial Commission in its

unemployment compensation department

The name Earl W. Scott appears twice on our chemistry alumni list. Earl, Sr., retired some five years ago and spends four months of each year in Miami, Fla., and the rest of the time in Great Neck, N. Y. Earl, Jr., B.S. '41, is employed by Good-year in its chemical division, and is living in Cuyahoga Falls, Ohio.

After an absence of several years following graduation, LeRoy W. Schaefer, B.A. '30, returned to the campus as a medical student. Now, an M.D. '39, he is pathologist and director of laboratories, Lewistown Hospital, Lewistown, Penn.

Richard S. Schiefelbein, B.S. '43, Ph.D. (Northwestern) '49, is a market analyst in Du Pont's marketing research division, development department.

Ernest R. Schierz, B.S. '16, Ph.D. '22, is chairman of the chemistry department at the University of Wyoming. He served a term as president of the Wyoming Academy of Science in 1954 and that same year was the associate director of Wyoming's first chemistry institute for college chemistry teachers and the conference of teachers of high school chemistry.

Janet Macnaughton Schlatte (Mrs. E. B. Jr.), M.S. '36, who was in charge of the departmental library during the mid-30's, is a Madison resident. She is the wife of the purchasing agent of Research Products Corporation.

Emil G. Schmidt, B.S. '21; Ph.D. (biochemistry) '24, is a staff member of the School of Medicine, University of Maryland; and John H. Schmidt, Ph.D. '21, is patent coordinator with the Bakelite Company.

Frederic W. Schrempp, Ph.D. '50, is one of several Badger chemists in the employ of California Research Corporation, LaHabra. He married the former Janet M. Edwards, B.S. '44. Theirs is a girl-boy family whose members should be ready for college in about '72 and '73, respectively.

John A. Schroeder, B.S. '49, is an employee of the city of Madison in its laboratory division and Vernon C. Schroeder, B.S. '34, is manager of the laboratory supply division of Laabs, Inc., Milwaukee.

When Henry A. Schuette, B.S. '10, Ph.D. '16, reached retirement age his colleagues marked the occasion with a testimonial dinner for him and presentation of an individually autographed scroll as an expression of esteem and congratulation upon the completion of his faithful service.

(continued on page 21, col. 1)

This 'n' That --

continued from page 20)

ice to our Alma Mater. At Christmas, 1955, his former Ph.D. students, describing themselves as "his boys", expressed the substance of that scroll in the form of a 21-jewel gold Hamilton watch with chain and knife.

Boyd G. Schultz, Ph.D. '50, returned last December from a year's stay at the submarine thermal reactor station in Arco, Idaho, and is now an advisory scientist in Westinghouse's atomic power division.

Another retired Badger alumnus is Los Angeles' chemistry teacher, Frank J. Seeman, B.S. '12.

P. G. Servais, M.S. '40, is the manager of the silastic division, product engineering laboratories, of Dow Corning Corporation.

Maurice Shamma, Ph.D. '55, is a post-doctoral associate of C. Djerasinski, Ph.D. '46, of Wayne University.

One of the some ten Badger chemists employed by American Can Company is Robin Shapiro, Ph.D. '53.

Another large family tree whose roots were laid by a Badger chemist came to our attention last Fall. The George Robert Shaws, Ph.D. '20 and B.S. (H.Ec.) '18, respectively, have four children and 10 grandchildren. He has been in the electron tube business almost since graduation, first with General Electric and then with Radio Corporation of America where he is now chief engineer.

Edward A. Shiner, Ph.D. '51, supervises cellulose and viscose research at Visking Corporation, Chicago.

Sidney Shulman, Ph.D. '49, holds an assistant professorship of immunochemistry in the department of bacteriology and immunology, School of Medicine, University of Buffalo. He has been there since 1952 on research appointment and gives "only a few lectures a year."

Paul W. Simonds, M.S. '21, retired September 1, 1955, as assistant chief chemist in the Internal Revenue Service, Washington, D. C.

Herbert C. Simonson, B.S. '52, is a physical science assistant in the Army's medical research laboratory at Ft. Knox, Ky. He expects to resume his medical studies at Wisconsin on termination of his present duty.

Newell O. Sjolander, B.S. '34, Ph.D. (bacteriology) '38, is leader of a group of microbiologists at Lederle Laboratories, Pearl River, N. Y. He has been working on antibiotics since 1943 and most of that time has

C. Harvey Sorum

Professor



Author, inorganic chemist and St. Olaf alumnus, B.A. '19, Harvey Sorum has been a staff member since 1924 when he enrolled in the Graduate School and began to serve the University as an assistant in chemistry. The four-year interlude between graduation from college and the first milestone in his higher education was spent as a student at Massachusetts Institute of Technology and then as a high school teacher in a South Dakota community where he became, in turn, principal and superintendent of schools. Upon acquiring the doctorate in '27 he was invited to remain as an instructor. He reached his present rank in 1943. Well known for his sympathetic interest in the beginning student of chemistry, his success in interpreting our science to the layman, in devising novel experiments and in explaining the lecture demonstration, he is frequently called upon to address clubs and other organizations not only in Madison but also beyond the campus borders. Recognition has come to him in the past from the U. S. Office of Education and recently from the National Science Foundation whose science teaching training program at the University he will head for next year. He is the author of a textbook in general chemistry and several teaching aids, such as the laboratory manual and a problem book. His research interests lie in the field of phase equilibria.

been stationed at Heyden Chemical Corporation, Princeton, N. J.

John I. Slaughter, Ph.D. '53, is employed by Corning Glass Works in its research and development department in Corning, N. Y. He informed us last Fall that he had moved from Whiting, Ind., in August and that he just missed the big refinery fire.

Sam C. Slifkin, B.S. '42, is vice-president and general manager of Product Research and Development Co., Detroit. For the past five years he had been operating as owner of a consulting firm which is now a division of Reproduction Products Company.

Edward F. Smissman, Ph.D. '52, last year resigned his assistant pro-

fessorship of chemistry at the Illinois College of Pharmacy to join the faculty of our School of Pharmacy — without change of rank, however.

Theodore Smith, M.S. '39, is chief chemist with Celon Company, Muscatine, Iowa. Viscose bottle caps is its specialty.

As of last September, E. C. Snooks, B.S. '51, held an intermediate chemist's rating at DuPont's Savannah River plant, Aiken, S. C., where he has been since November, 1952.

Harold H. Snyder, Ph.D. '45, is sales manager in DuPont's Grasselli Chemicals Department. His home address: rural route 4, Wilmington 8.

Victor G. Soukup, Ph.D. '53, has changed his affiliations but not his residence. Present employer: Cincinnati Milling and Machine Co.

George R. Spangenberg, B.S. '23, is general superintendent at Rainfair, Inc., Racine, Wis.

We have learned from Samuel Spero, B.S. '13, that he has not been active in the chemical field since he left the old Newport Works in Carrollville, Wis., after World War I; that he served as an officer in Chemical Warfare in the next war; that his married daughter, a Milwaukee-Downer alumna, is a registered occupational therapist; that his son is a Wisconsin B.A. '50 alumnus; and he himself is a specialty distributor.

Ill health forced Wm. C. Sproesser, B.S. '17, to retire some seven years ago after almost 30 years of service with Westinghouse Electric.

James R. R. Spindler, B.S. '55, is an analytical chemist at Mallinckrodt Chemical Works.

Philip S. Stambaugh, B.S. '22, is vice-president of Stambaugh Thompson Company, hardware dealers, in Poland, Ohio. Before assuming his present duties he had worked for a time as a metallurgist and then as an industrial engineer in steel mills.

Charles H. Stammer, Ph.D. '52, is a research chemist with Merck and Co., and the father of two children, David and Nancy. The Stammer children and those of the F. W. Schremp family are in the same age category. Future classmates at Wisconsin?

An article which appeared in the January issue of McCall's Magazine entitled "Bread, Potatoes, Sugar—Fiends or Friends?" and co-authored by a Badger chemist is of timely interest for those who find it desirable to take off a few pounds or (continued on page 22, col. 1)

This 'n' That -

(continued from page 21)

many. With no support of the melancholgy if-you-like-it-cut-it-out philosophy held to by some physicians, the authors point out that the best way to reduce is to cut down on the total quantity of food and not necessarily to cut out any that a balanced diet will provide the nutrients and energy important to body needs. Besides which, and most of the successful reducing diets contain the three foods in question. Far from being the fiends, the authors state that threaten the accomplishment of a reducing diet they are likely to be friends that can help the dieter maintain his program over the long period necessary. The co-author of this article is Frederick J. Stare, B.S. '31, professor of nutrition at Harvard. After graduating from the chemistry course, he transferred to the "Ag" campus where he won his Ph.D. '34 in biochemistry. His M.D. '41 makes him also a Chicago alumnus. Currently he is editor of *Nutrition Reviews*.

Arthur J. Stosick, B.S. '36, Ph.D. (Cal. Tech.) '39, is chief of the rockets and materials division of Cal. Tech's jet propulsion laboratory.

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

Robert H. Stow, B.S. '40, became a "3M" employee in 1941 and, except for a 23-months' leave of absence while on duty with the Armed Forces, has been there ever since. His service record shows a 29-month tour of duty in Africa and Italy. The Stows have five girls, eight to three years of age.

Leo F. Streeter, B.S. '40, joined the staff of Dow Chemical upon graduation, became assistant director of its main laboratory in Midland, and recently moved over to its technical employment department. Also entering the employ of Dow in 1940 was Frank J. Schubert, Ph.D. '40.

Frank M. Strong, Ph.D. '32, received the Borden \$1000 Award in nutrition at the April meeting of the American Institute of Nutrition in Atlantic City, and California-born Robert L. Strong, Ph.D. '54, after serving a temporary post-doctoral appointment with the National Research Council of Canada, was appointed to an assistant professorship in Rensselaer Polytechnic Institute.

Philip T. Stroup, Ph.D. '29, was promoted in 1955 by "Alcoa" from chief process metallurgist to assist-

Eugene van Tamelen

Associate Professor



The Dutch origins of Gene van Tamelen are suggested not only by his patronym but also by the name of the city of his birth, Zeeland. He is one of several natives of Michigan on the chemistry staff. On graduation from Hope College, A.B. '47, he continued his education at Harvard, M.A. '49, and went on for the doctorate which was conferred upon him in '52. His major professor there was Badger chemist Gilbert J. Stork, Ph.D. '45. He joined the Wisconsin faculty as instructor in '50, was advanced to assistant professor in '52, and now begins his sixth year here. His research interests are many. Among them are: amino acids, terpenes, antibiotics, alkaloids, and stereochemistry.

ant director of research. His son, James P., is a senior at Carnegie Tech., and his daughter is a student at Stevens college, Columbia, Mo.

Paul S. Stutsman, Ph.D. '38, is assistant to the president of Texas-U.S. Chemical Company. He informed us last Fall that he has been working alternately since 1953 in the Texas Company's research laboratories and New York City. (We understand that in a contest between a need for raking the leaves on the lawn of his Scarsdale home and an urge to read, on arrival, the last Badger Chemist "all the way thru", the latter scored a victory.

Donald L. Sullivan, Ph.B. '34, is with the Triangle Manufacturing Company, Oshkosh, Wis.

Harry Sutherland, B.S. '35, Ph.D. (Ill.) '38, is assistant manager of The Manufacturing - Technological Department of Shell Oil Company, New York 20.

John M. Swanson, Ph.D. '40, is research manager in Du Pont's textile fibers department, Newport, N. Y. Here, too, Wm. D. Luker, Ph.D. '55, may be addressed.

Robert C. Sylvester B.S. '48, is district manager with Schaar and Company, Chicago.

Bryce F. Tate, Ph.D. '50, spent two years as post-doctoral with Harvard's Professor Bartlett and then joined the staff of Chas. Pfizer and Co., Inc., in Brooklyn.

Oregon State, B.A. '40; Wisconsin,

M.S. '43; Purdue, Ph.D. '47, these are the milestones which mark the course of Jay F. Taylor's program to his present assistant professorship at the University of Nebraska.

Jane Ehrlinger Taylor (Mrs. M. S.), B.A. '31, is living in the middle of the Mojave desert, at Boron, where her husband, a metallurgist with California Borate Company, is assisting in the development and operation of a borax property. Before that the Taylors had lived for 20 years on the Island of Cyprus in the eastern Mediterranean whose copper deposits were his interests; then followed some five years of farming in western Oregon.

Wm. R. Teeters, M.A. '16, heads the chemistry department of a St. Louis high school.

Lester J. Teply, B.S. '40, is one of a two-man team of WARF staff members in Madison directing the testing of thousands of compounds as to their efficacy against mouse cancer.

John H. Terhorst, B.A. '37, is a sales engineer in Westinghouse Electric Corporation's X-ray division.

Glenn A. Terry, Ph.D. '51, is a research chemist at Mallinckrodt Chemical Works. The Terrys' first-born, Stephen Allan, was born September 14, 1955.

Barbara F. Tews, B.A. '53, is pursuing graduate work as a teaching assistant at the University of Washington in colloidal electrolytes.

Wm. B. Thomas, Ph.D. '32, holds a professorship of chemistry at Baton College, Lewiston, Maine.

Quentin F. Thompson, Ph.D. '51, has joined three other Ph.D. alumnus at Monsanto Chemical in St. Louis: Loren Bannister '53, F. C. Meyer '43, and H. G. Johnson, '41.

Wilbert R. Todd, B.S. '28, Ph.D. (Agr. Chem.) '33, is professor of chemistry in Oregon's Medical School. He shares authorship with E. S. West of the second edition of "Textbook of Biochemistry," Macmillan 1955 publication.

Walter Toy, M.S. '46, some-time student assistant in general chemistry, Madison restauranteur, and a Celon Company chemist, is now a research chemist at Rohm and Haas in Philadelphia.

Ralph E. Triller, M.A. '37, is assistant general manager of Kingon Division of Hygrade Food Products Corporation, Indianapolis.

Elton H. Turk, M.S. '42, is a resident of Idaho Falls, Idaho, where he is employed in the research and development department of Phil-

(continued on page 23, col. 1)

This 'n' That -

continued from page 22)
lips Petroleum Company's atomic energy division.

As this is being written Carl W. Umland II, B.S. '52, is on active duty in the Army Chemical Corps. A position as a technical service man on butyl rubber with the Eryay Laboratories of Esso Research and Engineering is awaiting him, we understand, upon his release from service on July 30. His wife, the former Jean Blanchard, Ph.D. '54, has resigned her assistant professorship at Mt. Holyoke in order to join him at his future post.

David Vea, B.S. '50, has achieved his objective, a sales position in the chemical industries. He is a sales engineer with Oronite Chemical Co., San Francisco.

Marion H. Veazey, Ph.D. '26, is director of research with The Funkhouser Company, Hagerstown, Md., manufacturers of color surfacings for roofings and suppliers of the needs of the mining, milling, and refining industries.

James T. Venerable, Ph.D. '49, has informed us that he is in the development department of Mallinckrodt Chemical Works "trying to develop enough judgment to separate good ideas and good projects from poor ones." He has given much time to the St. Louis Section of ACS and has served as chairman of the committees on membership, speakers' bureau, program, symposiums, and the Midwest Award.

Frederic C. Verduin, B.S. '33, is assistant supervisor of Sherwin-Williams Company's mineral products laboratory.

After 25 years in research and development for Standard Oil Co. (Indiana), Vanderveer Voorhees, Ph.D. '24, resigned to organize a research laboratory for a seal manufacturer near San Francisco. With his wife and two girls he is living on a small apricot orchard in the foothills of Los Altos. He is now in consulting practice in the Bay area and Los Angeles.

Donald J. Voskuil, B.S. '49, is with Pittsburgh Plate Glass Co., Milwaukee. He gives his address as Oostburg, Wis.

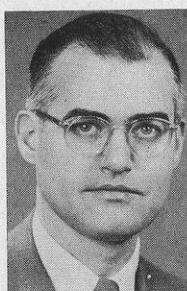
Pei Wang, Ph.D. '52, is employed by Sylvania Electric Products, Woburn, Mass., and John S. Welles, B.S. '46, is a research chemist with Eli Lilly and Co., Indianapolis.

Charles C. Watson, Ph.D. '38, is professor of chemical engineering at Wisconsin. He is a son-in-law of emeritus professor J. H. Mathews, M.A. '05.

Wm. H. Webb, Ph.D. '49, enrolled

Alfred L. Wilds

Professor



The subject of this sketch is a three-degree graduate of the University of Michigan: B.S. '36, M.S. '37 and Ph.D. '39. His major professor was W. E. Bachman. Two years of his graduate career were spent as teaching assistant. Before coming to Wisconsin as instructor in 1940, he was a DuPont fellow at Michigan and in six years he reached his present rank. For three years during the World War II effort, he was a co-official investigator for the NDR Committee. His research interests are indicated by the following subjects: steroids and steroid hormones; reductions with lithium, and reactions of diazo methane.

at Wisconsin with a B.S. from Mississippi State College and an M.S. from Missouri School of Mines. He has returned to his second alma mater where he has associate professor rank. Research participation contracts with Oak Ridge Institute of Nuclear Studies kept him busy during the summers of '54 and '55.

Mary E. Weeks, M.A. '14, Ph.D. (Kansas) '27, taught chemistry at the University of Kansas for 22 years and was a research associate of the Kresge-Hooker Science Library of Wayne University for ten years. She has now reduced her activities to making translations of scientific articles at home — 19339 Sussex, Detroit 35 — for the Library. She wrote that she was pleased to find the articles about her former professors in Badger Chemist and that she filed them in her collection on the history of chemistry.

On an earlier occasion (Newsletter 1), we made mention of Bertha Kitchell Whyte (Mrs. Malcolm), B.A. '12, and her contributions to the collector's column of Wisconsin Magazine of History. What we did not know at that time was that these items were part of a fascinating ten-year-or-more record of travel, research, exploration, and study, nor did we suspect that a book built around her interests as an antiquarian was in the making, for late in 1954 "Wisconsin Heritage," her first, made its appearance. It now represents the Badger state in the library of President and Mrs. Dwight D. Eisenhower at their farm home near Gettysburg, Pa. A Lon-

don reviewer writing in The Book Exchange, Sardina House, said of it, "This is a colourful and fascinating note-book of pioneer days in the American midwest, an honest and entertaining record of a well-loved period in American growth. It pictures faithfully the undaunted march of the first settlers, lumberjacks, innkeepers, farmers, millers, brewers, and craftsmen. It is a vivid folk history of the life and lore of pioneers who trekked to Wisconsin and laid the foundations of a great and flourishing State. The atmosphere and special flavours of those older generations have been wonderfully captured and preserved in these pages." Except for a turn at teaching at Mills College in California and employment as water analyst during World War I in a munitions plant in Nitro, W. Va., authoress Whyte has not followed chemistry as a career; rather, in her own words, she "turned to art and the ways of an antiquarian after marriage and gradually lost all chemical knowledge." Her Milwaukee friends marvel at her energy, her capabilities, and her wide diversity of talents. Her lovely home in suburban Whitefish Bay overlooking Lake Michigan and built in contemporary style — it contains her own studio — attests to her own philosophy for enjoying life and living it to the full; by doing constructive things.

Wendy Jean joined the Eugene L. Woroch (Ph.D. '48) family on October 21, 1955. She now has a sister and a brother.

Harland D. Wycoff is another alumnus of the Department to have garnered a Ph.D. in biochemistry. He is an assistant professor in the department of biochemistry of Medical College of Georgia in Augusta.

Harold F. Wakefield, M.S. '23, is assistant manager of the new products engineering department of Bakelite Company, division of Union Carbide and Carbon Corporation.

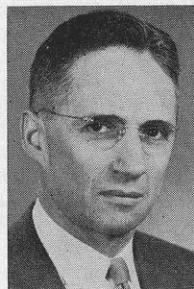
John S. Walker, M.S. '55, is employed by Shell Chemical Company at their Denver plant.

Harry Wandrus is a museum preservation specialist with the National Park Service and is stationed in Washington, D. C. He has taken on an extra-curricular activity — he calls his business venture Archeological Preservation — in which are processed archeological and general museum specimens for non-Federal organizations. He describes this work as one which combines or utilizes the experience and training

(continued on page 24, col. 1)

John E. Willard

Professor



Radiochemist Willard is a Harvard graduate, S.B. '30, who turned Badger, Ph.D. '35. In the interlude between graduation and his enrollment in Wisconsin's graduate school he spent

two years as instructor in Avon Farm School and, on completing his formal education under our own Dr. Daniels, went on to Haverford College where he remained as an instructor for two years. Then, in 1937, Wisconsin invited him to return to the campus with an instructor's rating. Exactly ten years later he reached his present rank.

His research interests are varied. Among them are chemical effects of nuclear transformations, photochemistry, flash photolysis, and radiochemistry. By virtue of the latter interest he is in charge of the Department's "Hot" room, is a member of Argonne National Laboratory advisory committee, the Atomic Energy Commission's distribution advisory committee, and the isotopes advisory committee of the Veterans Administration Hospital in Madison. Governor Kohler has recently appointed him a member of the Wisconsin Committee on Atomic Energy. He is, also, currently a member of the Gordon Research Conferences' advisory board and chairman of the division of physical and inorganic chemistry of the ACS.

This 'n' That --

(continued from page 23) gained as a chemist at Wisconsin together with "sundry training and experience in just about every manual museum work."

Howard J. White, M.S. '44, Ph.D. (Princeton) '47, is associate director of research at Textile Research Institute, Princeton, N. J.

Ervin S. Wierman, B.S. '27, is general superintendent of control at the Chambers Works of Du Pont's chemical department.

Edwin O. Wiig, Ph.D. '27, full professor of chemistry in the department of chemistry at the University of Rochester, is now its chairman, and thus becomes the successor of W. Albert Noyes, Jr.

Robert F. Wilfong, Ph.D. '44, is a technical superintendent at Du Pont's textile and fibers department in Kinston, N. C. There is an

even distribution of the sexes in the Wilfong family.

Don R. Williams, B.S. '37, is president and general manager of Chippewa Plastics, Inc., Chippewa Falls, Wis. His wife is the former Marian Aver, M.S. '40.

Fred T. Williams, B.S. '32, Ph.D. (bacteriology) '35, is a patent attorney in Evanston, Ill. DePaul University granted him a J.D. in law in 1941; and Garvin D. Williams, M.S., is a resident of St. Paul, Minn., in the employ of the United States Internal Revenue Department.

Robert A. Willhnganz, B.S. '37, has informed us of his new address in Highland Park 3, Mich., in the Detroit metropolitan area. The products which he handles as a sales representative include detergents, fatty alcohols, fatty alcohol sulfates, essential oils, textile and special chemicals.

Gershen Winestock, Ph.D. '55, has been called up for service in the Armed Forces and is now in Dugway, Utah, a member of Army's Chemical Corps.

His training in chemistry was in part contributive to the present employment of Don Witt, B.S. '49 who has been a sales representative for Monsanto's inorganic chemicals division for the past three years. His territory includes a portion of Chicago, northern Illinois, Iowa and Nebraska.

Layton J. Wittenberg, Ph.D. '53, is a research chemist at the A.E.C. Mound Laboratory in Miamisburg, Ohio.

Marvin O. Winkler, Ph.B. '28, is in San Francisco in the employ of American Can Co.

B. H. Wojcik, Ph.D. '34, is an Olin Mathieson Chemical Corporation employee at the Niagara Falls plant.

John O. Woodsome, Jr., B.S. '28, is president of Lamson and Goodnow Manufacturing Co., Shelburne Falls, Mass. Their product: cutlery for home and professional use.

Howard J. Wright, M.A. '41, a department head in varnish research with Cook Paint and Varnish Co., Kansas City, Mo.

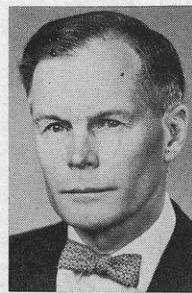
We have been informed that Hans Wynberg, Ph.D. '52, has accepted an associate professorship at Tulane University; from an assistant professorship at Grinnell College.

Another chemistry alumnus who made his undergraduate major the foundation for a career in medicine is John B. Youmans, B.A. '15. A graduate of Johns Hopkins Medical School in '19, he is now dean of Vanderbilt's School of Medicine in Nashville, Tenn.

Ward B. Young, B.S. '23, at last

John W. Williams

Professor



The post-high school career of colloid chemist Williams, Ph.D. '25, might have ended at Trinity College but for World War I. Upon completing his third year there he joined the U. S.

Navy and, upon return to civilian status, completed the first phase of his education at Worcester Polytechnic Institute with a B.S. '21. That same year he came to Wisconsin to begin his climb from an assistantship to his present rank which he reached in 1938. While still an instructor he was awarded a National Research Council fellowship for study in Copenhagen and in Leipzig and during his associate professorship days he took a year's leave on an International Education Board fellowship to familiarize himself with the Svedberg ultracentrifuge at Upsala; and eventually to supervise the installation and operation of the Department's copy of this apparatus which was a gift of the Rockefeller Foundation. He has twice been a visiting professor at Cal. Tech (1946 and 1953); has the unique record of having served the ACS as chairman of two different divisions, physical and inorganic and colloid chemistry in 1936 and 1938, respectively; and last year received the Kendall Award in colloid chemistry. He is a member of the National Academy of Science.

His research interests: sedimentation analysis, proteins and high polymers and solution theory.

reports, was with Castle Chemical Co., Castle Rock, Minn.

Edward L. Yuan, Ph.D. '54, is a Du Ponter at the fibers and finishes department in Newburgh, N. J.

Walter H. Zartman, Ph.D. '33, has retired after 22 years of active service in Du Pont's organic chemicals department. With Mrs. Zartman, the former Edna L. Nelson, B.A. '30, he is now living in Winter Haven, Florida. The Zartmans' two sons are students at the University of Illinois, from which their father graduated as a chemical engineer in '27. One is following in his father's footsteps, the other is studying electrical engineering.

Henry Zendle, B.A. '36, is treasurer of Long Island Glass Works, Inc. His mail address: 28 Purdue Road, Glen Cove, N. Y.