



Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 11 Winter 1964

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BADGER CHEMIST

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

Newsletter 11

Winter, 1964

The chymists are a strange class of mortals ·
impelled by an almost insane impulse to ·
seek their pleasure among smoke and vapour ·
soot and flame, poisons and poverty, yet ·
among all these evils I seem to live so sweetly ·
that may I die if I would change ·
places with the Persian King ·

Johann Joachim Becher "Acta Laboratorium Chymico Monstrans, seu Physica Subterranea" 1669

The Creed of a Chemist

Our cover picture on this issue is a statement taken from the *Physica Subterranea* of Johann Joachim Becher, a publication which first appeared in Latin in 1669. It is in this volume that Becher developed the concept of the "terra pinguis" or fatty earth responsible for the combustion of bodies. This concept is more commonly known as the phlogiston theory although the term phlogiston was never used by Becher but was introduced by his disciple Georg Ernst Stahl. The phlogiston theory, although proven false through the work of Lavoisier, was an important attempt to find a unifying concept for chemistry. Becher (1635-1682) was a German chemist whose fertile imagination, prolific pen, and ambitious business schemes attracted much attention in Germany and England in his day.

BADGER CHEMIST

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

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Henry A. Schuette, Ph.D. '16
Grace Legler, Assistant

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Aaron J. Ihde, Ph.D., '41
Edwin M. Larsen, B.S. '37, Ph.D.
(Ohio State '42)
Villiers W. Meloche, Ph.D. '26

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Ye Editor's Column

Badger chemists, we are pleased to give you the eleventh newsletter from the scene of your one-time college home. For the great majority of you the undergraduate degree meant a four-year association with the "Latin Quarter" of Madison; for those upon whom was conferred a graduate degree the duration of that association was necessarily, longer. In either case, however, we claim you as an alumnus and hope that from that association there were sown the seeds of an affection for and a continuing interest in the University, one which always makes you feel proud to say, "I am a Badger chemist."

This issue of Badger Chemist, as were its predecessors, was made possible by your generosity. (State funds may not be tapped for the purpose.) To those of you who made a contribution to the publication costs of the current newsletter go our warmest thanks.

Two new names appear on the masthead of this newsletter to our alumni. One is that of Badger chemist Emory D. Fisher, who joined the editorial staff upon returning to the campus after an absence of some 28 years since

With the Professors
Promotions, Travel, Off-Campus Lectures

For the second time—and in consecutive years—a Badger chemist heads the Graduate School of our University. Robert A. Alberty, Ph.D., '47, was named dean at last school year's end. He had previously served on a part-time basis as an associate dean of the College of Letters and Science.

Prof. Walter J. Blaedel of the analytical division was the January guest speaker of the ACS Northeastern Section in Boston. The subject matter of his lecture, "Continuous Analysis", stemmed from some of his original contributions to the growing field of automated analytical procedures.

Assistant Professor Dahl began the '63-64 school year as an associate professor and, at the same time, Dr. Robert West was made a full professor.

The Department's internationally known research chemist and solar energy expert, Emeritus Professor Daniels, has been serving the 1000-member Solar Energy Society as president since January, 1963. This is the third society which he has

graduation and the other is that of a young woman, Grace Legler, who needs no introduction to the hundreds of graduate students who have earned a higher degree in organic chemistry. She is serving the organic division as secretary and will provide the needed liaison between the old chemistry building on University Avenue and the new research unit on East Johnson Street.

The next issue of Badger Chemist will show at least one other change in editorial personnel. Professor Fisher will succeed us as editor. This will be our second retirement since 1955; and it won't be to the retirement world of shuffleboard and horse shoes. We still have a job to do—and that job is to complete, without further interruption, we hope, our history of the Department. And when that time comes, fate willing, we'll lean back in our chair and loudly shout, "hip, hip, hurray, the darned thing's out."

It has been a real and rewarding pleasure—"a labor of love"—to have served Alma Mater. You, too, can do your bit by giving project newsletter your financial support.

—H.A.S.

headed: American Chemical Society in 1953, and the Geochemical Society in 1958. He was chairman of the session on Solar energy of the Energy Sources Conference in Rome in 1961, and chairman of the board of governors at Argonne National Laboratory, and a member of the U.S. National commission to UNESCO.

Department chairman John D. Ferry has been named President of the International Committee on Rheology. His term of office is five years.

Professor Goering's lecture schedule in the past months included appearances before interested audiences at Brandeis University, the University of Rhode Island, Columbia, Tennessee, Harvard, and the University of Delaware.

Professor Ihde is currently serving as chairman of the department of Integrated Liberal Studies (ILS), the University's program of general education which was started in 1948. He continues to teach his science course (The Physical Universe) in the program, but found it necessary to curtail his teaching activities in Freshman chemistry. He was elected last September (1963) to a third term as chairman of the ACS division of the History of Chemistry. Currently he is president of the Wisconsin Academy of Sciences, arts, and Letters. He is the third Badger chemist to serve the Academy in this position.

Assistant Professor and Mrs. Lemal became the parents of their first child, Anne Marie in 23 November, 1963.

Three members of the staff addressed research groups within the last half-year (1963). Professor Muxfeldt, while in Germany, was guest speaker of three chemical manufacturers, Badische Anilin u. Sodaefabrik in Ludwigshafen, Farbwere Hoechst in Frankfort, and Bayer Company in Leverkusen; two technical "Hochschule" in Germany (Braunschweig and Darmstadt), and one in Zurich, Switzerland; and the University of Marburg. Prof. Jerome A. Berson was a guest of Union Carbide, Bound Brook, N.J., in November, and Chairman Ferry was on a similar mission at Phillips Petroleum in Bartlesville, Oklahoma.

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Professors . . .

(Continued from page 2)

Two faculty families spent part of last summer in Europe. Professor and Mrs. C. Harvey Sorum timed their visit to Norway so as to include a twelve-day cruise in the Arctic circle area—they saw the midnight sun with benefit of clear skies—visited Stavanger, Bergen, Oslo; took possession of a Swedish-make car in which they later travelled some 6500 miles, and made their last stop in Scandinavia in Denmark. After that they made stops in Germany (Hamburg, much of the Rhenish area, Bavaria), Holland, Geneva, and Paris. After that they left the continent at Calais for a two-week tour of England and Scotland. They were back home in time for the opening of the new school year.

Prof. and Mrs. J. W. Williams left Madison at the close of the summer session for their trip to Europe. Stops were made in Norway, Sweden, Denmark, Germany, Holland, and England.

Two members of the teaching staff are serving our University as professors in positions one of which is the result of the generosity of an alumnus of the early days of its history and other a gift of the Wisconsin Alumni Research Foundation. Alumnus William Freeman Vilas, B.A. 1858, left his sizable estate to the University in 1908 with the stipulation that provision be made for the establishment of professorships. The money became available a few years ago. Badger chemist John Ela Willard, Ph.D. '35, upon resigning the deanship of the Graduate School was then named Vilas Professor of Chemistry. The memory of the late Professor Homer Adkins (1919-1949) of organic chemistry fame was fittingly perpetuated in a similar way by WARF which made possible the professorship in question. The present incumbent is physical chemist J. O. Hirschfelder, Ph.D. Princeton '36, director of the Theoretical Chemistry Institute. He was recently elected to honorary membership in the American Society of Mechanical Engineers. His citation reads, "For distinguished service in the engineering profession through fundamental research in thermodynamics and transport properties of gases and liquids."

The month of November, 1963, found three members of the staff addressing local A.C.S. sections. Prof. Robert West was a guest of the Northern West Virginia section in Morgantown, W. Va., on the 11th, the Kanawa Valley section in

This 'n' That About Our Alumni

Degree-wise history repeated itself in the Department in January 1963, when the University conferred its highest degree upon the son of Ph.D. alumnus, Penrose S. Albright '36, son John G. spent the year 1963, post-doctorally, on the campus as a project assistant in the University's Enzyme Institute and at this writing is in Canberra, "down under", in postdoctoral study at Australian National University. The senior Albright retired in 1961 as professor emeritus of physics, University of Wichita.

The parents of Betty Frances Traugott announced her marriage to **Paul E. Aldrich**, Ph.D. '58, on 23 November, 1963, in Wilmington, Delaware, at Grace Methodist Church. Paul is employed as a research chemist by DuPont.

The family circle of the **C. F. Bailey's**, Ph.D. '30 and B.S. '30, respectively, as of June, 1963 numbered five: a son and daughter, and three grandsons.

Michigan alumnus, '56, **Jon D. Bass**, Ph.D. '61, joined Eastman's research group on the completion of a two-year stint in the Air Force and a one-year association with Harvard University in postdoctoral activities.

Word has come to us that **Robert B. Bates**, Ph.D. '59, is now a member of the chemistry staff at the University of Arizona. We understand that his is a rapidly growing department which is training some seventy-five graduate students and that about one-half of them are "organic majors". Bob, a W. S. Johnson protege, describes his presence on the Tucson campus in these words, "They needed someone in natural products, so here we are."

Congratulations to Chemistry Course graduate **B(enney) L. Beck**, '53—he became a three-degree Badger chemist in '57—on his pro-

motion to senior research chemist early in 1963 by Humble Oil and Refining at its Baytown, Texas, plant.

John W. Berge, Ph.D. '59, is again a Wisconsin resident; from Wilmington, Delaware, to Racine, with Johnson Wax.

During the regular session of UW-M Ray U. Brumblay Ph.D. '38 serves his department as its chairman; for the last several summer sessions he has been on the Madison campus conducting classes in analytical chemistry.

Some six years ago we reported that **Paul G. Carpenter**, Ph.D. '41, had been named director of research and development by Copolymer Rubber and Chemical Corporation, Baton Rouge, La. Now, after seven years in its employ, he is serving this corporation as its president and chief executive officer. Copolymer Rubber makes synthetic rubber of various types, such as latices, for foam, rug backing, and other uses. Writing in an obviously nostalgic vein Paul said that he reads Badger Chemist with great interest and finds much noteworthy news in it. He still regards his stay on the Wisconsin campus as one of the most interesting and rewarding experiences in his life, and that he would like to see the changes that have occurred here, particularly the facilities for teaching and research in chemistry.

Carnegie Institute alumnus **Albert S. (Nick) Carter**, Ph.D. '27, appeared upon the Wisconsin scene in 1924 because of his appointment as assistant in chemistry. Badger chemist status achieved—he holds two Wisconsin degrees—he took a position as research chemist with DuPont in its Jackson laboratory. His was an active affiliation with this company which remained unbroken until 1 July, 1963, when he retired as research director of its Elastomer Chemicals Department. He had held a variety of jobs at Du Pont, each one spelling recognition of services rendered—and a promotion. While a division head of Jackson laboratory he was transferred in 1941 to the Louisville, Ky., works as an assistant manager. Four years later he was called back to Wilmington to fill the position as assistant director of Jackson laboratory. Upon the completion of a three-year stint he was named assistant technical director, research and development.

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Charlestown, W. Va., on the following day; the Cincinnati section on the 13th, and the group at the University of Kentucky on the 14th. His topic: "The Oxocarbons: A New Aromatic Series". Professor Zimmerman was the guest speaker at the November 14 meeting of the Washington D.C. section, and Professor Muxfeldt was in Philadelphia on the 21st as the guest of the section there and the Organic Chemists' Club there.

We Introduce . . .

FRANK C. ANDREWS

Assistant Professor



This son of Badger chemist Arthur Clinton Andrews, Ph.D. '38, prepared for graduate work at Kansas State University, where he earned his B.S. degree in 1954 "with honors".

The undergraduate academic honors which he received are many. Among them are the Freshman chemistry achievement award, the American Institute of Chemists' student award, the student leader award of Kansas State, and the Phi Lambda Upsilon outstanding graduate award. Upon graduation he won a one-year Fulbright Scholarship for advanced work for chemistry at Hull University, England. Upon completing a two-year stint in 1957 with the U.S.A. as a special agent in the Counter Intelligence Corps, he enrolled at Harvard for graduate work on an NIH postdoctoral fellowship. The doctorate achieved—and an A.M. in '59—in 1960, in chemical physics, he spent a year on the Harvard campus as a postdoctoral NIH fellow. He joined our staff in 1961 to teach physical chemistry and advanced chemical thermodynamics. He is an Alfred B. Sloan Foundation Fellow and a member of the Theoretical Chemistry Institute. His research interests are in classical non-equilibrium studies and statistical mechanics.

This 'n' That . . .

(Continued from page 3)

Honors, also, have come his way. In 1940, while a research chemist, he received the Modern Pioneers Award from the National Association of Manufacturers for his contributions to the discovery of and the process for the manufacture of Neoprene. In 1946 he served as a scientific consultant with the U.S. Department of Commerce in Germany.

Another name added to our list of award winners. Ralph Connor Ph.D. '32 of Rohm & Haas received the Gold Medal of the American Institute of Chemists early in May, 1963. He was cited for his leadership in the scientific

community and in the pioneering of new scientific ideas.

Chemistry course graduate Harold C. Cheetham, B.S. '19, completed his formal education at Northwestern, Ph.D. '22. He retired recently after 29 years of service at Rohm & Haas. He was sales manager of resins and plasticizers at the time.

Is Chemistry Course graduate Terrance Cooprider, M.S. '62, employed by Kimberly-Clark at its Neenah, Wisconsin, plant?

Howard I. Cramer, Ph.D. '29, was sent to Holland late in 1960 by Pennsalt Chemicals to assist in establishing an European manufacturing base as part of Fabriek van Chemische Producten-Vondelingenplaats, a diversified manufacturer of dyestuffs, intermediates, and pesticides. Pennsalt is assisting this Dutch Company in an expansion program by the addition of plants for the manufacture of some of its (Pennsalt) products, such as organic sulfur compounds. Howard's role is that of providing commercial, technical, and management liaison between Vondelingenplaats and Pennsalt's home office in Philadelphia. The address of the Cramers is Groen van Prinstererlaan 140, Den Haag, Holland.

We have learned that George A. Cripps, B.A., '47, has been made marketing manager in fine chemicals at Atlas Chemical Industries, Wilmington, Delaware.

Michael J. Curry, Ph.D. '48, is a laboratory director at Celanese Corporation of America. He is at its polymer development center in Clark, New Jersey.

Stephen S. Dal Nogare, Ph.D. '48, is serving the Journal of Gas Chromatography—it is a newcomer in its field—as a member of its editorial advisory board.

Some ten years ago we reported that James D. D'Ianni, Ph.D. '38, had been named assistant to Goodyear's vice president of research and development. We are pleased to report now that he has been made associate director of this area. Jim, as chairman of the ACS division of Rubber Chemistry, is one of several Badger chemists who have served the Society in their respective fields in the same capacity.

After having served for the last five years as director of the Los Alamos Graduate Center of the University of New Mexico—and done some 90,000 estimated miles of commuting to his twice-a-week job—Guido H. Daub, Ph.D. '49, has gone back to the chemistry department on a full-time basis.

RICHARD B. BERNSTEIN

Professor



Professor Bernstein joined the staff during the summer of 1963. He is a native of New York City and received his A.B., A.M., and Ph.D. degrees from Columbia University. He

taught at the Illinois Institute of Technology from 1948-1953 and at the University of Michigan from 1953-1963. Among his several honors are the A.P. Sloan foundation fellowship and an N.S.F. senior postdoctoral fellowship which he spent in Zurich and London. During World War II he served on the Manhattan Project and the Bikini A-Bomb tests. His research interests are in molecular beam scattering and intermolecular interactions.

He married Norma B. Olivier of Oskaloosa, Iowa in 1948. The Bernsteins have four children: Niel 12, Minda 11, Beth 7, and Julie 5.

Chemistry courseman Paul O. Dunham, '34, made his undergraduate major the foundation for a career as a patent attorney. He studied law at George Washington University and is a member of the District of Columbia bar, the New Jersey, and American Bar Associations. Two years after he had left the Madison campus he joined the Patent Department of what was then Standard Oil Development Company; he retired last October 1963 as staff patent attorney in the Legal Division of Esso Research and Engineering Company. Paul is a U.S. Navy Veteran of WWI, is married and has four children and four grandchildren.

William D. Ehmann, M.S. '41—he is also a Ph.D. alumnus of Carnegie Institute—is now an associate professor of chemistry at University of Kentucky, Lexington. We understand that his research interests lie in the area of radiochemistry and activation analysis, and that much of his work is related to problems in geochemistry and the origin of meteorites. He wrote us in June 1963, that the family's major excitement of this year was his trip to London to present a paper at the I.U.P.A.C., visits to various European research laboratories, and moving into a

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First Honors Group Graduates

Among the graduates crossing the commencement platform in June, 1963, were twenty young men and women; and six of them are Badger chemists. They comprise the first group of students to have followed the Honors program to graduation. It is a program which was begun in the fall of 1960 for juniors and seniors "to encourage and recognize work of greater depth, scope, and originality."

Exactly fourteen of this group are graduates of Wisconsin high schools. The six in question with home town in parenthesis are: Jerome E. Anderson (Hammond), Richard M. Lindstrom (Ashland), Edward J. Panek (Madison), John D. Scribner (Appleton), Martin F. Semmelhack, and Peter M. Som (Riverdale, New York).

That this group is a "blue ribbon" one is indicated by the fact that four of them Anderson, Lindstrom, Scribner and Semmelhack were privileged to wear the coveted fourragere at Honors Convention; that two Anderson and Scribner were elected to Phi Beta Kappa and a like number "made" Phi Kappa Phi. An excellent grade point average paid off for Anderson and Semmelhack who are pursuing graduate work at Harvard on a subsidy; for Lindstrom who captured a Woodrow Wilson fellowship for study at the University of California (La Jolla); and for Scribner whose N.S.F. fellowship is being used at Wisconsin, in physics.

This 'n' That . . .

(Continued from page 4)

new \$6.5 million chemistry-physics building.

We have learned via a company publication that **Clyde Eldridge**, Ph.D. '52, is a member of the Esso Research Laboratories staff in Baton Rouge, La., and that his work there centers on fundamental catalyst studies. He is credited with having made substantial contributions with a colleague to a better understanding of the complicated mechanism of the socalled Oxo reaction for converting olefins to aldehydes by adding carbon monoxide and hydrogen in the presence of a cobalt catalyst. Clyde's work has given rise to several publications on the subject and has

brought him extra company recognition. He spent the academic year 1961-62 at Texas A. and M. as a Welch Foundation visiting scholar.

John R. Fanselow, Ph.D. '27, has a retirement record to his credit which, if not unique, certainly sets an example for others in the "senior citizen" category in good health to follow. Twice within the past five years he had found it necessary to apply his talents to new fields. Kimberly-Clarke retired him at 65 as chief of its research and development division, his activity as an educator came to an end in June, 1963, as Professor of Paper Technology at Western Michigan University, Kalamazoo; and now at age 70 he is living in Menlo Park, N.J., serving Minerals and Chemicals, Phillip Corporation, as consultant on a full time basis. He wrote us, wistfully it seems, "I hope this job lasts until the final check out."

A teaching assistantship in the Department upon graduation from Illinois in 1928; a three-year affiliation with Yale as a post-doctoral fellow which stemmed from the year when he became a Wisconsin Ph.D. alumnus; an association with Merck, Sharp & Dohme which dated from 1934 when the company bore only the first name of the present organization; election to the presidency for the American Chemical Society in 1962; and now, after having resigned his position with his last employer as vice president for exploratory research, president of Stanford Research Institute—and a courtesy appointment as professor of chemistry at Stanford University—this summary covers the career of **Karl A. Folkers**, Ph.D. '31, which began at two mid-western universities, moved over to the Atlantic area, and is now being continued in California.

Some four years—and five newsletters—ago we reported that Chicago alumnus (B.S. '22) **Sydney J. French**, Ph.D. '28, had severed his connections as professor at Rollins College in order to take a position in a Florida university which at that time was still in the planning stage sans faculty, students, alumni, parents, football team, and buildings. But it did have an 1,700-acre campus area. Now, on this site which is the home of the University of South Florida, some fifteen million dollars have already gone into the construction of completely new air-conditioned plant which includes, among other buildings, a three-unit science complex: chemistry, the life sciences, and physics. At least four more cam-

In Memoriam

Clayton W. Botkin, M.A. '14, emeritus professor of chemistry and head of the department, Agricultural Experiment Station New Mexico State University—on 4 December, 1962, in Rochester, New York.

William George Campbell, M.S., some-time chemistry of forest products major and St. Andrews Scotland alumnus, B.S. '23—January, 1960, in Mountain View, California.

Harry A. Curtis, Ph.D. 14, D.Sc. '37, retired director of the Tennessee Valley Authority from 1948 to 1957 (newsletter 1960)—on 1 July, 1963 in Knoxville, Tennessee.

Samuel A. Fuqua, Jr., Beloit College '52, Ph.D. '59, one time Johnson Foundation fellow, organic chemist, physical sciences division of Stanford Research Institute,—on September, 1963 in Palo Alto, California.

Alfred E. Koenig, Ph.D. '12, emeritus professor of chemistry, Montana School of Mines and some-time assistant professor in the department—on 20 April 1963, in Plains, Montana.

Herbert L. Marter, B.S. '15 (Ch.C.), last known residence was Pensacola, Florida.

Christopher A. Murray, B.S. '35 (Ch.C.), technical foreman, Pure Oil Co.—on 4 August, 1962 in Nederland, Texas.

Richard O. Sutherland, Ph.D. '36, associate professor of chemistry, Missouri School of Mines and Metallurgy—on 17 July, 1963, in Berkeley, California.

pus buildings are on the planning boards in anticipation of a student body of about 10,000 by 1970. Contributive to the task of organizing an instructional staff for this growing university—it opened on schedule in 1960 with a Freshman class of about 2,000—is the assistance given the administration by the dean of Academic Affairs, Badger Chemist French which he describes as a "wonderful experience", a sort of climax to some forty-five years in education. In our book it spells a long successful career which began as a high school teacher in Superior, Wis., his home town and continued as a staff member of State Teachers College there upon graduation from the University of Chicago.

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Our Newest Alumni

Exactly seventy-six names were added to the Department's Badger Chemist mailing list at fiscal year's end June 1963. For the same period in 1962 the number was eighty-two. The drop was largely due to the decrease in the size of the Ph.D. group of which there were eight less than the year before.

Thirty percent of the graduating senior class had been selected for distinctive scholastic achievement and, because of this recognition, they were privileged to wear the fouragers first at Honors convocation and then at Commencement. Three seniors had been elected to Phi Beta Kappa, a like number had "made" Phi Kappa Phi, and one, William H. Fink of Marshfield, Wisconsin, had been elected to both of these honor societies. His superior record won him a Woodrow Wilson fellowship for graduate study at Princeton.

The class as a group is predominately "home grown" in that only four of its members are non-residents of Wisconsin. Their home towns range alphabetically from Appleton to Waupaca and Wauwatosa. The four non-residents came from Arkansas, Illinois, Ohio, and Tennessee.

Six students in the group of nineteen upon whom the M.S. degree had been conferred had come from a like number of foreign lands to our University for graduate work. They represent schools in Chile, India, Japan, Malaya, the Phillipines, and Taiwan. The others are alumni, individually of seven American universities: California at Berkeley, Columbia, Massachusetts, Northwestern, Ohio State, Pittsburgh, Tulane, and Wisconsin; and four colleges: City College of New York, Rhode Island School of Design, St. Johns, and St. Xavier.

The department's Ph.D. Alumni list was increased by twenty-five during fiscal year 1962-1963. The total now stands at 1,025. Graduates of two foreign Universities and twenty American colleges, universities, and institutes are now Badger chemists via the higher degree route. Their names with that of the source of their first degree follow:

Graduating in August 1962 are: Victor A. Bloomfield (California), David A. Brandt (Yale), James H. Espenson (Cal. Tech.), Margaret A. Frish (Nazareth), Richard G. Lawton (California at

Berkeley) and Douglas L. Smith (Dartmouth).

The thirteen member class of January 1963 consisted of John G. Albright (Wichita), Gary D. Blue (Miami University), Arthur P. Grosser (Cornell), George P. Hicks (Illinois), Adlai S. Kanaan (Baghdad), Socrates P. Pappas (Dartmouth), Duncan F. Poland (Michigan), Gene J. Pontrelli (C.C.N.Y.), Robert A. Stratton (Nevada), and Donald L. Towns (Georgia Tech.).

Making up the June, 1963 class were: Gene S. Alberts (State College, Washington), Louis G. Alexakos (Northwestern), William A. Cilley (New Hampshire), Eugene R. Corey (Williamette), Robert C. Hansen (Eau Claire College), and Jerome F. Levy (Michigan).

Our information as the distribution of the Ph.D. alumni with respect to the academic and the industrial fields is not fully confirmed at this writing. It appears, however, that the division is probably even.

This 'n' That . . .

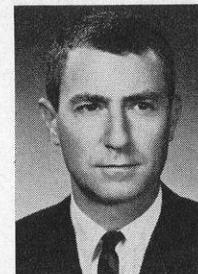
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He left the Wisconsin educational scene after a four-year affiliation with our Department, which began as a teaching assistant and ended on the termination of his fellowship. Franklin College (Indiana) then called him to fill a professorship there. In 1932 Colgate University added him to its chemistry staff as an assistant professor. In 1954, then a full professor and dean, and director of Colgate's Division of Natural Sciences, and some-time co-ordinator (1943-44) for the school's Naval Flight Preparatory School he resigned his post for one at Rollins College in Florida where another milestone in his life was to begin; that of an administrator in education.

Chicago's Wilson Company retiree (1958) **Herbert M. Gaarder**, B.S. '16 and his wife left the mid-west for California in November (1963) and are making their home in Seal Beach at 1641 Interlachen Road, Leisure World. Their two sons have followed into their father's footsteps—they, too, are chemists. Syd is with the Atomic Energy Commission in Washington and Herbert, Jr. is a technical salesman with Stauffer Chemical in New York. The Gaarder name bids fair to last for some years; the family tree at this writing has

JEROME A. BERSON

Professor



Professor Berson moved from sunny Florida for his professional training in New York. He received his B.S. from New York University in 1944 and the M.A. and Ph.D. degrees from Columbia. His education was interrupted by a two-year stint in the United States Army with overseas service in the China-Burma-India theater. From 1949-1950 he was a National Research Council postdoctoral fellow under Dr. R. B. Woodward at Harvard and from 1950-1963 he taught at the University of Southern California, attaining the rank of full professor in 1958. In 1959 he was an N.S.F. postdoctoral fellow at the California Institute of Technology. In the fall semester of 1963 he joined the University of Wisconsin staff. He recently received the gold medal of the ACS of the California section for his "contributions in the application of stereo-chemistry to the mechanisms of organic reactions". In 1946 he was married to Bella Zevitovskiy of Brooklyn, New York. They have three children, Ruth 12, David 9, and Jonathan 7.

four grandsons! Herbert wrote us recently that he has no complaint about the way life had treated him and that he was enjoying his "grand loaf" in retirement. He has, we surmise, selected a good area in which to continue, pleasantly, this way of life.

The **Lucien E. Gagnerons**, M.S. '45 and B.A. '45, respectively, have a new address, 1308 Arthur Street, Pekin, Illinois. Lucien was transferred there in June, 1963, by Minneapolis-based Archer-Daniels-Midland Co.

The **Francisco Gil-Arnao**, M.S. '61 and his wife—both earned this degree in the same year—are now residents of Caracas, Venezuela. He is a member of the chemistry faculty of Universidad Central De Ciencias. Their hearts are, apparently, still with their last Alma Mater because, we understand, they are wishfully hoping that they will someday return to the Wisconsin campus in order to com-

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This 'n' That . . .

(Continued from page 6)

plete their formal education as two-degree Badger chemists.

After having served Air Reduction Company Inc., for 16 years in Central Research. **Lyle I. Gilbertson**, M.A. '26, (Ph.D. '40, Indiana) became a private consultant in research and development; and then, in his own words, became interested in a natural corollary to these activities and was, as a result, elected a director and executive vice-president of Aerospace Placement Corporation, personnel counsellors in Philadelphia. We understand that he finds that these activities leave him more personal freedom than he has had before, that he is enjoying himself, but working harder than ever. We surmise that all of this spells his approach to retirement upon the completion of an active career in academic, industrial, and research fields.

Some seven years ago we learned that Chemistry Course graduate **Ray C. Gralow**, '24, was director of product improvement at Corn Products Company. We are pleased to state now that he has been named assistant to its vice-president, world-wide research. Ray joined Corn Products in 1934 as a member of its technical service department. The Gralow family is living in Tenafly, N.J.

Ten newsletters ago we reported that **Barbara Greeley**, B.S. 1952 was employed by Ciba Pharmaceutical Products, Inc., in Summit, New Jersey. We have since learned that Barbara married the Rev. Paul E. Schumacher and at this writing their family consists of three children, Kurt, Karen and Kent. Their address: 22600 Valeria St., Canoga Park, California.

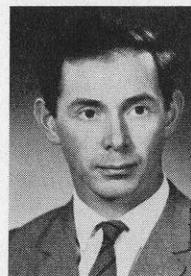
We understand that **Frank T. Greene**, Ph.D. '61, has been named senior physicist at Midwest Research Institute, Kansas City, and that his field of concentration is not only in high temperature chemistry but in chemical physics, also.

Arthur P. Grosser, Ph.D. '63, returned to the campus from Rice University at school years opening in September, 1963 in order to serve as a research associate to Prof. Richard B. Bernstein, who is a recent addition to the departmental staff.

Chemistry Courseman **Karl R. Guenther**, '51, continued his education on the campus, in biochemistry, Ph.D. '57. Now, in the employ of Esso Research and Engineering, Linden, N.J., he is working on a

W. BYERS BROWN

Associate Professor



Professor Brown, a Scot from Glasgow, received his B.S. degree in 1950 with first class honors in chemistry from the University of Manchester, England. His graduate work was done under Prof. H. C. Lonquet-Higgins there. He taught at the R.A.F. Technical College, Henlow from 1953-1955. Then he served his alma mater until 1960 as lecturer in theoretical chemistry and the University of Edinburgh for a year in a similar capacity. His appearance on the campus at Madison was marked by a research fellowship in the Theoretical Chemistry Institute and promotion, the next year, to an associate professorship. His research interests are in statistical thermodynamics and molecular quantum mechanics.

Mountain-climbing is his extracurricular interest, and in this respect he shares a hobby with our Prof. Robert West.

challenging problem: food-from-oil. Under development is a biological process for making protein and vitamin supplements from petroleum products. The immediate objective of the work is to produce food supplements for farm animals such as pigs and chickens as well as household pets. The process, we understand, involves the growth of microorganisms on hydrocarbon materials, using a technique similar to fermentation. Karl, on tasting the product of his research, commented, it is reported, "Even at this stage it's not bad tasting. One thing is reasonably certain, however, these food supplements could help make more pork and chicken available to a lot more people in the world".

In 1961 we reported that **Neil V. Hakala**, Ph.D. '43, had been made deputy to the vice-president of Esso Research and Engineering for medical, basic and analytical research, and petroleum products. In this issue of the newsletter we report the promotion by the company to a vice-presidency. He is filling in London a newly created executive position,—vice-president for the European research, development, and related research activities of the company. He represented Esso at the Fourth Arab

Petroleum Congress in Beirut, Lebanon, early in November, 1963, at which time he addressed the congress of some 700 registrants on the subject, "The World-Wide Scope and Importance of Petroleum Research". The object of the meeting—it had been organized by the secretariat general of the League of Arab States,—was to facilitate the exchange technical, economic, legal, and other related information between the Arab states and other oil-producing countries in the near East. During his visit to Lebanon, Neil spoke before chemistry students and teachers at the American University of Beirut.

Harry L. Hamilton, M.A. '35, is now serving the city of Madison on its human rights commission. He was one of the early leaders in the local Negro community in the human rights field there.

We have learned that Superior State College alumnus ('43) **G. A. Harlow**, Ph.D. '51, began a year's contemplated stay in Amsterdam as an exchange scientist between Emeryville Research Center of Shell Development and SIRM.

Robert L. Harris, Ph.D. '51, is now manager of the research laboratory of Allied Chemical's Barrett Division in Morristown, N.J.

We have learned that **Eugene F. Haugh**, B.S. '51 and Ph.D. '55, is now serving Du Pont as a research supervisor.

We have learned that **Ray G. Houtz**, Ph.D. '32, has retired as technical director from Toni Division of Gillette Company. Ray had served the department for four years (1928-1932) as assistant in chemistry plus one year as a WARF fellow. He was a Du Ponter from 1932-1954 and had served Toni for some ten years.

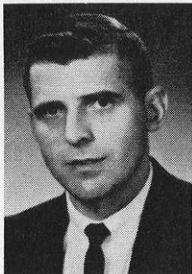
Florida resident, the Rev. **Joseph Huntley**, B.A. '41, has a new mailing address: 513 Francis Blvd., Lakeland, 33801. He continues to serve the Florida Synod of Lutheran Church in America as its secretary.

Florida State University's faculty member **Russell H. Johnsen**, Ph.D. '51 is editor of a contemplated fifteen-volume set of monographs in Elementary Chemistry being published by W.A. Benjamin Company. Former staff member **Edward L. King** is the author of one of the four already published—and Prof. E.M. Larsen, we understand, is scheduled to add two to the four numbers already published.

(Continued on page 8, col. 1)

THOMAS J. BYDALEK

Assistant Professor



Professor Bydalek, a native of Grand Rapids, Michigan, joined the analytical staff in September, 1961. He received his B.S. degree from Aquinas College in Grand

Rapids and his Ph.D. from Purdue in the summer of 1961. His special research interests include solution kinetics and the reactions of co-ordination compounds, especially multideterminate ligand complexes and their applications to analytical separations.

In 1957 he married Marilyn Schubert of West Branch, Michigan. They have two children, Thomas Michael 5 and Ann Marie 3.

This 'n' That . . .

(Continued from page 7)

Current president (1963) of the Society for Applied Spectroscopy is Du Pont's Donald R. Johnson, Ph.D. '54.

Robert H. Jones, Ph.D. '49 is now with W. R. Grace & Company as vice-president in charge of development at its Clarksville, Md., research division.

We have learned that T. Evan Jones, Ph.D. '60, has a new address, Rochester, New York, and a new house at 169 Heritage Circle. He spent some time after having achieved Badger chemist stakes in post-doctoral research at Stanford. He is now with Eastman. The Jones family numbers two boys, Chris in his fourth year, and brother Larry who is "crowding" two years.

Lee H. Kalbus, Ph.D. '54, won a promotion to full professor at Wisconsin State College as of September, 1963.

As a Freshman Thomas J. Katz, B.A. '56, won the Krauskopf Memorial Award for having earned the highest degree in an elementary course once taught by the professor in question. Upon graduation he was named a National Science Foundation fellow and pursued graduate work at Harvard. As a Harvard Ph.D. '59 alumnus he accepted an offer from Columbia University to join the chemistry faculty. At last report he had reached assistant professor rank.

The R. J. Kepfers Ph.D. '30 are now Californians "by adoption" and are at home in Yucaipa some 70 miles east of Los Angeles. We have learned from Ray that (1) their present street address is 34584 Avenue C; (2) that the town has an elevation of some 2650 feet and a population of some 3500 of whom probably 70-80% are retired like themselves; (3) that of these retirees some 65% are living in trailer courts. The Kepfers are not living in a "mobile house", rather in a new two-bedroom house with all modern conveniences and covered patio looking out to the north on the San Bernardino Mountains.

Some six years ago at this writing we noted that Harold W. Knudson, Ph.D. '39, was technical director at paper manufacturer Hollingsworth and Vose Company, East Walpole, Mass. His letterhead now reads: Vice president, research. We understand that (1) he had made a "thorough inspection" of the Department's new research building in 1962 and found it to be very impressive and (2) son Rolf is a second year student at St. Olaf College.

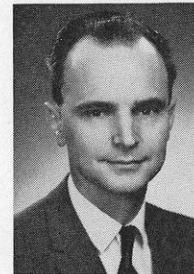
We have learned that Walter A. Koehler, Ph.D. '24, has joined the ranks of retired Badger chemist educators. He, a chemical engineering graduate, B.S. '19, after a year in industry returned to the campus for graduate work in physical chemistry. In 1924 he joined the faculty of West Virginia University as instructor in chemical engineering. His association with it ended some 39 years later as professor of chemical engineering; and during the course of his activities there had served as the director of the University's Engineering station, head of his department, and acting dean of the Graduate School. He is author of Volume II of Wiley and Sons' Principles and Applications of Electrochemistry.

Our latest information on Chemistry Courseman Clarence J. Krueger, '27, is that he is currently general manager of Pittsburgh Plate Glass Company's coatings and resins division. His address: One Gateway Center, Pittsburgh 22. Out of his transfer from PPG's Ditzler Color Division in Detroit in late 1949 to his present position there came successively three promotions: from Production Manager, to General Manager of manufacturing, and then his field of responsibility was enlarged as indicated.

James H. Krueger, B.S. '58, completed his formal education at the University of California (Berke-

RICHARD F. FENSKE

Assistant Professor



Professor Fenske received his B.S. degree from Marquette University. His education was then interrupted by three years spent in analytical research and development with

Union Carbide at Oak Ridge, and two years of service in the Army with the nucleonics division at the Army Chemical Center in Maryland. Returning to school he received his Ph.D. from Iowa State University in 1961. That fall he joined the University of Wisconsin staff. His research interests are in ligand field and molecular orbital theory of transitional metal complexes and in transitional metal chemistry. In 1951 he married Frances Michor of Milwaukee. They have four children, Mary Elizabeth 4, twins Joseph and John 2½, and Richard 1.

ley), Ph.D. '61. He is now a staff member of Oregon's chemistry department, Corvallis.

Alvin R. Lamb, B.S. '13, was one of several Badger chemists who had accepted President Harrington's invitation to his class to return to the campus in June 1963, for induction into the University's exclusive Half Century Club. Now retired after an active career as a biochemist—he earned his Ph.D. on the other campus in 1930—his activity record spells three Wisconsin

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Eastman Grant

The University of Wisconsin is one of twenty-two colleges and universities to receive part of the grant of \$250,000 made by the Eastman Kodak Company for the school year 1963-1964. The gift of \$12,500 to the department is unrestricted except for an award of \$1000 to an "outstanding doctoral student". The award was made at the Department's colloquium on 8 November, 1963. The recipient—he is the second Eastman Wisconsin Scholar—is Iowa State University alumnus Richard S. Nicholson who, at this writing, is serving Professor Shain as research assistant. The first Badger chemist to receive this award was Victor A. Blomfield, Ph.D. '62, who is now a member of the staff at the University of California, (La Jolla).

This 'n' That . . .

(Continued from page 8)

sin degrees earned, an eleven-year association with Iowa Agricultural Experiment Station in Ames, and three as research director with Moorman Manufacturing Co. He was associated with U.S. Public Health Service as biochemist (1931-33) and later, in 1935, became a research associate in the experiment station of the Hawaiian Sugar Planters' Association. His military record: Sanitary Corps 1918-19 and 1941-46, Lt. Colonel.

Word came in November, 1963, from **Wilbur A. Lazier**, Ph.D. '25, that he was retiring at year's end as a senior vice-president of engineering and a director of Sprague Electric. He was making this move, we understand, in order to have time for his "personal interests", and that he hoped to make his services available on the west coast as a part-time consultant in the field of research management.

George E. Leroi, B.S. '56, completed his formal education at Harvard, Ph.D. '60, on an N.S.F. fellowship. He is now a member of Princeton's chemistry department. Three of his senior classmates also earned advanced degrees as NSF students.

William D. Lewis, M.S. '47, is serving the state of California in its Department of Agriculture, Division of Chemistry. We understand that his research activities at this writing center on a study of chlorinated hydrocarbons in alfalfa, field crops, and milk, and that his quarters are located in a new state office building in Fresno, "beautifully airconditioned and appointed".

Milton H. Lietske, Ph.D. '49, of Oak Ridge National Laboratory was a guest of the University on 30 July, 1963, at which time he, under the aegis of the Department of Physical Chemistry and the Theoretical Chemistry Institute, lectured to the two groups on the subject of recent thermodynamic studies on aqueous systems.

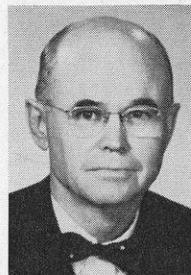
Arthur D. Lohr, Ph.D. '42, is one of a group of five Hercules Powder employees who were named research associates this year.

We have learned that **Fred H. McCarron**, Ph.D. '56, is now employed by Tidy House, a division of Pillsbury Company, Minneapolis, Minn.

Stanley D. McGregor, M.S. '61, is a member of the chemistry faculty of Davis and Elkin College, Elkins, West Va.

EMORY D. FISHER

Associate Professor



A seventeen-year association with Missouri School of Mines and Metallurgy ended during the summer of 1963 when **Emory D. Fisher**, Ph.D., '35, returned to the campus in order to take over the direction of the instruction in chemistry at the University's Extension Centers in Wausau, the Fox River Valley, Green Bay, Manitowoc, Sheboygan, Racine, Kenosha, and Marinette. It is the position held by Badger chemist George G. Town, Ph.D., '22, until his retirement. Professor Fisher is also a member of the Freshman chemistry division at the Madison campus.

He is a Dakota Wesleyan alumnus, B.S. '31, and in the interlude between the time at which he left Madison and his association with Missouri School of Mines, he had held teaching positions at Kansas State, the University of Texas, and East Texas State College.

The Fishers—she is the former **Marie Michaelis**, B.S. Ed. '34—are the parents of three children: Michael and Mary Ellen attending the University of Missouri, and Frank who is a Madison school boy.

We have learned that Canadian born **David M. McQueen**, Ph.D. '33 and B.A. '30, Western Ontario University has been advanced by Du Pont to the position of assistant director of its central research department. Dave became a Du Ponter as a research chemist in 1934, a research supervisor in 1942, a laboratory director in 1946, and an assistant director of research in 1951.

Vanderbilt alumnus (B.S. '35) **Stanford Moore**, Ph.D. '38, enrolled at Wisconsin for graduate work in organic chemistry which he financed partly by means of a fellowship. The doctorate achieved, he took a position as assistant with the Rockefeller Institute in New York. It was a move which in time (1952) led to his present position: professor of biochemistry and member of the Institute. His "extra curricular" activities include service as visiting Franqui professor at the University of Brussels—an honorary M.D. degree was conferred upon him there in 1954; residence at Cambridge University

as investigator; and technical aide during the last war in the office of Scientific Research and Development. He is one of the eight Badger chemists who are members of the National Academy of Sciences. His most recent recognition came last September (1963) at the New York meeting of ACS. At that time he was named one of the twenty individuals to receive a Society-administered award which will be presented them at one of the 1964 meetings. His award is sponsored by Lab-line Instruments, Inc., for chromatography and electrophoresis.

Hsien Ting Niu, Ph.D. '62, and not return to his native Taiwan upon completing his formal education at Wisconsin. The offer of a position as research chemist with Wyandotte Chemicals, Wyandotte, Michigan, which he accepted, was apparently a factor in his decision to remain in the midwest.

Mary Jane Oestmann, Ph.D. '54, is now an associate chemist, International Institute of Nuclear Science and Engineering, with Argonne National Laboratory; from Battelle Memorial Institute, Columbus, Ohio.

Frederick C. Oppen, Ph.D. '36, wrote us last October (1963) from West Berlin—that he was at that time in Europe on a three-week tour of paper mills,—he is with Kimberly-Clark in Neenah—and that his itinerary would take him into Sweden, Finland, and Germany.

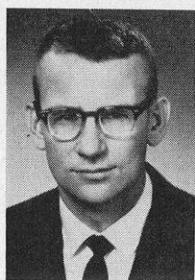
Quaker Oats retiree **Fredus N. Peters**, Ph.D. '25, accompanied by his wife, spent 17 weeks traveling around the world, during the course of which they made a three-week visit to New Zealand. And, to complete his activity record since 1962, mention must be made of a delightful vacation in Wisconsin and the nine weeks spent as a temporary resident in Florida. "Pete", we understand, insists that any kind of a regular job now would interfere with this delightful kind of life. We suspect, however, that he might be willing to serve as a travel consultant to a few chosen friends.

Wesley R. Peterson, Ph.D. '29, is now a St. Paul resident in the employ of Minnesota Mining and Manufacturing as its patent and trade mark coordinator. Wesley joined 3M in 1957 after some 25 years of research activity—Harvard, Du Pont, Vitro Corporation, and M. W. Kellogg—and three years with General Aniline and Film as assistant patent counsel.

(Continued on page 10, col. 1)

BYRON KRATOCHVIL

Assistant Professor



Professor Kratochvil, a Nebraska native, joined our staff in September, 1961. His B.S., M.S. and Ph.D. degrees are from Iowa State, the last degree being conferred in

1961. His principal research interests are in the analytical chemistry of the transition metals and in the study of oxidation-reduction reactions. He was married to Marianne Spain of Parkersburg, Iowa, in 1960. They have two children, Susan 2, and Dan 6 months.

This 'n' That . . .

(Continued from page 9)

In 1940, while a Du Pont research chemist, he won the Modern Pioneer Award of the National Association of Manufacturers.

Donald J. Plazak, Ph.D. '59, is a member of the Mellon Institute staff, Pittsburgh.

Andrew J. Potter, Ph.D. '53, is with NASA in Cleveland, O., where he directs research in solar cells, chemical batteries, and upper atmosphere chemistry. The Potter family lives in a Cleveland suburb. The age span of their three sons is now eight to three years.

Some eight years ago we reported that **Albert F. Preuss**, Ph.D. '53 was a group leader with Rohm & Haas. Now we are pleased to "up grade" his job. He has been promoted to laboratory head. A congratulatory nod to Chemistry Courseman because of this recognition.

The business card of Dow Chemical's **Allen K. Prince**, Ph.D. '56 reads "Technical Service and Development".

Richard T. Rapala, Ph.D. '49, wrote from Indianapolis that he now has a new address—5218 Channing Road; and that their sixth child arrived in October, 1962, while their new five-bedroom house was under construction.

A Wisconsin alumnus, John V. Bergen, has been named dean of the School of Pharmacy at Idaho State College, Pocatello. His wife is a Badger chemist, the former **Ann Ratcliff**, B.S. '57, some-time librarian in the Department.

Chemistry courseman **Manfred E. Reinecke**, '56, left Madison upon graduation and headed west to take a position at the University of

In Appreciation of Services Rendered . . .

Four institutions of higher learning in the midwest have at least one building named for a Badger chemist in appreciation of long years of faithful, dedicated services performed in the public interest. One of them is a liberal arts college; another is a sometime privately supported "institute" which is now one of Wisconsin's tax-assisted state colleges; another is a state school of mines and metallurgy and one is our own University. The names of the Badger chemists upon whom this honor has been bestowed follow.

Mary M. McCalmont, M.S. '21, an alumna of Westminster College, affectionately known as "Mary Mac" by thousands of Stout State College Alumni, was honored in September, 1963, when McCalmont Hall, a recently constructed dormitory on the Menominee campus, was dedicated. Miss McCalmont joined Stout Institute as a member of its faculty in 1912; she retired in 1952 as chairman of the chemistry department.

On the campus of St. Olaf College, Northfield, Minnesota, will be found, Ellingson Hall, a men's dormitory named for **Emil O. Ellingson**, Ph.D. '12, a protege of our late Louis Kahlenberg, B.S. '92, Ph.D. (Leipzig) '95. He was instrumental in building up the college's chemistry department to national prominence. Some 80 of his former students earned the Ph.D. degree elsewhere; fourteen of them are Badger chemists.

When Missouri's state legislature made available a new home in Rolla for its Geological Survey, the building was named in honor of a Badger chemist whose senior thesis title on a physical chemistry subject was hardly suggestive of the field in which the author was to make his life-long career. Henry Andrew Buehler, B.S. '01—he had elected to follow the general science option of his day,—on gradu-

California as an assistant in chemistry. Two years later he received an appointment to an NSF fellowship; in 1959 came promotion to an instructorship; in 1960 the university conferred upon him the doctorate. At this writing (1963) organic chemist Reinecke has assistant professor rank.

David C. Remy, Ph.D. '59, and his wife Nancy reported a "Splendid, but all too short, sojourn in Europe" in 1963. Both are employed by Merck research laboratories in West Point, Pa.

(Continued on page 11, col. 1)

ation took a position with an assistant geologist's rating. He became in due time state geologist. Death in 1944 ended his 38-year service record. Rolla conferred the honorary D.Sc. degree upon him in 1925. He, too, was a Kahlenberg protege.

A rather late recognition on the local scene came to **Louis Kahlenberg** (1870-1941) B.S. '92, in 1960 when a house in one of the new residence halls on Elm Drive was formally dedicated 10 April of that year. Each house was dedicated to the memory of one of twelve great teachers, researchers, and public servants.

His citation reads, "Louis Albert Kahlenberg, who opened new paths in the field of physical chemistry, brought a bold scientific mind and explorer's spirit to the University, where he taught and carried on research for forty-seven years.

"Born in Two Rivers, Wisconsin, in 1870, Professor Kahlenberg was early imbued with an intense interest in the natural sciences and mathematics. The interest remained for life. After a year as instructor in chemistry at the University, where he studied for his bachelor's and master's degrees, professor Kahlenberg won his doctorate *summa cum laude* in physical chemistry at the University of Wisconsin in 1895 and advanced to professor of chemistry in 1900, a position he held until he retired in 1940.

"In a time of increasing specialization, Dr. Kahlenberg emphasized the unity of the chemical field. He was unusually learned in the history of chemistry and lectured to upperclassmen on the subject. Early in his scientific career he attracted attention because his theories on the nature of solutions were at variance with the generally accepted views of the day. It turned out that he was nearly two decades ahead of other researchers. In another field of research, his experiments led to broader views of membrane permeability than those current at the time.

"Colorful and controversial, Dr. Kahlenberg was a popular teacher. He had a gift for making complex scientific matter seem simple, and his amusing digressions on non-scientific subjects endeared him to students. To him, science was a great intellectual adventure, and he brought to the Department of Chemistry a dedication to painstaking research, no matter where its facts led. This house honors that spirit of untrammeled research."

HANS MUXFELDT

Professor



Professor Muxfeldt, born in Burg on the Island Fehmarn in the Baltic Sea, joined our staff in September, 1961. He received his diploma of chemist and Doctor of Science

degree from the University of Goettingen. From 1953-1955 he was a Liebig fellow at Goettingen. He taught for six years at Technische Hochschule in Braunschweig, serving as an instructor from 1955-1958, and Privadozent from 1958-1961. In 1960 he was the Karl Folkers and James M. Sprague lecturer at the University of Wisconsin. His research interests lie in the field of synthetic organic chemistry, especially the synthesis of complex natural products.

He was married to Gisela Kleinow in 1953 in Goettingen. They have four children: ages 9, 7, 4 and 1.

This 'n' That . . .

(Continued from page 10)

David C. Remy, Ph.D. '59, "the last McElvainian" and some-time member of the University's McArdle Memorial Laboratory, is now with Merck, Sharp & Dohme at its research laboratories.

Cowin C. Robinson, Ph.D. '43, some-time assistant, is now professor of chemistry at North Carolina State College. Except for a three-year interlude while employed by a Massachusetts brush manufacturer, his activity record to date spells that of an educator. He holds two degrees besides his Wisconsin Ph.D.; Sterling College, B.A. '24 and M.A. '34, Kansas. He had held an instructorship at Oregon State before taking his first step (1957) to Badger chemist status. Upon graduation he joined Smith College faculty as instructor in "quant". In 1948 he accepted a position at N.C. State as associate professor; full professor standing came in 1957.

Ripon alumnus (B.A. '25) **Chester A. Rosenbaum**, Ph.D. '30, interrupted his graduate work upon becoming a Badger Chemist, M.A. '27, in order to do a two-year stint as instructor at Elmhurst College in Illinois. That finished, he returned to the campus in order to complete his formal education at

Wisconsin. The doctorate achieved, he joined Du Pont in 1930 as a research supervisor in its ammonia department in West Virginia; in 1943 he was moved up to a research management in its plastics department in New Jersey; and in 1950, he was named section manager in Polychemicals Department, Experiment Station. Chester was fortunate to have been in the group having to do with the development of Du Pont's "Teflon", one of the fluorocarbons. Its discovery at a critical time—by chance or sagacity—during the Manhattan Project is said to have enhanced the prestige of plastics and to have opened new vistas for man-made fibers. He recalls, with some amusement, we suspect, the case of the prospect who, thinking that Teflon cost 45 cents a pound, ordered 1000 pounds. The price tag at that time was \$45.00 per pound; and Du Pont did not have half a ton of the stuff on hand.

Virginia Schelar, M.S. '53, resigned as an assistant professor at Northern Illinois State University. She is again a graduate student in the department; and a house fellow in the latest of the University's dorms for women, Sellery Hall.

For the second time since 1958, Pennsylvania State University's associate professor of chemistry **John M. Schempf**, B.S. '34 and Ph.D. Cornell, '38, has been in Pakistan on off-campus official business. He was a Fulbright Lecturer at the University of Peshawar, in 1958-59. Last summer (1963) he was visiting professor at Baragall working under the direction of the University Seminars Organization of the Pakistani government. The program which parallels summer institutes for college teachers in the States, is supported by the Asia Foundation.

The name **Schilling** in our Badger chemist alumni list belongs to a husband and wife pair who were classmates in college, B.S. '52. She, the former Marilyn Seivwright, married Eugene D. Schilling, Ph.D. '56, (biochemistry). He is in the employ of General Mills, Minneapolis.

Retiree **Helmut H. Schrenk**, Ph.D. '28, former managing director and senior fellow of Industrial Hygiene Foundation of Mellon Institute, is now serving as research consultant to the president of Mine Safety Appliances, Pittsburgh.

At this writing (Nov. 1963) **Juel P. and Dorothy C. Schroeder**, Ph.D. '48 and '49, respectively, are at the University of Texas, Austin, pursuing postdoctoral research there.

Happy Landings

A multiple birth—twins that is—made **Jon D. Bass**, Ph.D. '61, and his wife parents of a three-girl family. Their names: Kristin, Marnie, and Berit.

The **Robert Chiangs** (Ruby Wong, M.S. '39), Ph.D. '53 are now the parents of four children. David Stanley joined his sisters, Amy and Beverly, and a brother Clement, on 14 August, 1962.

Scott is the name given by the **Fred McCarrons**, Ph.D. '56, to their son who was born on 23 November, 1963.

The arrival of their second daughter, Anita Joan, on 7 April, 1962, was announced by the **W. David Woods**, Ph.D. '56, sometime ago. Her sister preceded her by about five years ago.

University of Maryland alumnus **Howard W. Whitlock, Jr.**, Ph.D. '61, and his wife the former **Barbara J. Shortreed**, Ph.D. '62—she is a graduate of the University of Alberta—announced the birth of their first child, a son, Robert Howard, on 2 February, 1964. Organic chemist Howard holds an assistant professorship in the department.

The **Paul M. Treichels**, B.S. '58, announced the birth of their first child a daughter, Janet, on 4 February, 1964. Paul is an assistant professor at his alma mater.

Both are on leave of absence, he from Union Carbide and she from Ciba.

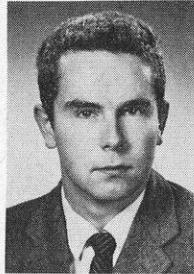
Wm. M. Schwarz, Jr. Ph.D. '61, on completing a two-year appointment as a post-doctoral fellow with Professor Shain, accepted a position with IBM. He has an Endicott, New York address.

We have learned that **Elmer L. Sevringshaus**, B.A. '16—he had made his training in chemistry the foundation for a successful career in medicine, M.D. (Harvard) '21—is now a resident of Brookfield, Conn., from Mountclair, N.J. He has been a faculty member with professorial rank of the Institute of Nutrition Sciences of Columbia's School of Public Health and Administration since 1958. He is the associate director of the Institute.

Irwin Siegelman, Ph.D. '59, is chief science editor with Sliver Burdett Company. He is a B.A. (Continued on page 12, col. 1)

WORTH E. VAUGHAN

Assistant Professor



Professor Vaughn, native of New York City, joined the staff in the fall of 1961. His educational background includes Oberlin, B.S. 1957, and M.A. and Ph.D. degrees from

Princeton, the Ph.D. being granted in 1960. Before coming to Wisconsin he completed a year of postdoctoral work at Princeton. His research interest is centers in intramolecular rotation in liquids.

This 'n' That . . .

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magna cum laude alumnus of New York University, a former assistant professor of chemistry at Florida State University and an associate in chemistry at the University of Pennsylvania. He has, also, served the Chemical Education Materials Study as Philadelphia Center Director.

Robert W. Siegfried, Ph.D. '53, left the campus some ten years ago. He returned to Madison at school year's opening (1963) as associate professor of history of science. He had previously taught at Boston University, University of Arkansas, and Illinois.

When the giant Du Pont corporation promoted Lester S. Sinness, Ph.D. '35, to a vice-presidency in February, 1963, numbered among the personnel then of its directorate were two Badger chemists rather than one as before. Wisconsin's first contribution to Du Pont's board of directors is Samel Lenher, B.A. '24, Ph.D. '26 (London) D.Sc. '59, who is vice president in charge of research.

Some-time manager of a creamery in Sioux Falls, S. Dak., and now owner of a dairy in Wausau, Wis., Elmer F. Sneider, B.A. '22, and his wife, the former Anne Alexander, B.A. '23, at this writing are again spending the winter in Cuernavaca, Mexico.

Unnstein Stefansson, M.S. '46—if our memory serves he is the only Icelander on our Badger chemist mailing—spent the school year 1962-63 in Seattle as a visiting scientist at the University of Washington's Department of Oceanography. He was here in the States on leave of absence from

the Icelandic Fisheries Institute, Reykjavik, where he is in charge of the oceanographical section. The Stefansson family, homeward bound, left Seattle late in June and spent a month in the west and other areas, particularly Madison where they were for a week or more. During the course of a pleasant visit with Unnstein we learned (1) that he had wanted very much to see Alma Mater again and particularly the new hydrobiology (limnology) building on the lake shore; (2) that during his stay in Seattle he had cooperated with Prof. F. A. Richards, who is editor of the Journal of Limnology and Oceanography, on a study of the effect of the discharge from the Columbia River on the chemistry of the surface waters off the Washington and Oregon coasts; (3) that he won his doctorate in 1962 at the University of Copenhagen; and (4) that he is the author (1961) of a text book (in Icelandic) on general oceanography.

Albert H. Steffen, B.S. '40, has been named vice president of water Pollution Control Federation, Chattanooga, Tennessee. Al is with Wilson Co., at its plant there.

J. V. Steinle, Ph.D. '24, on completing a 38-year service record with "Johnson Wax" as head of the company's research activities, was named to a new post: vice president for international research and development.

J. Dan Stice, M.S. '52, is now coordinator of patent licensing of Minnesota Mining and Manufacturing Company's (3M) new products commercial development division. His business address: 2501 Hudson Rd., St. Paul 19, Minn.

Vanderveer Voorhees, Ph.D. '24, writing from Los Altos, California, early in June, 1963, reported that he and his wife had returned from an interesting two-month tour of Europe by TWA and that they had spent most of their time in Spain, Portugal, Greece, Germany, and England.

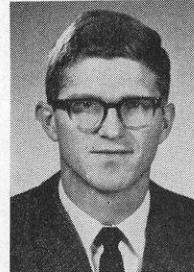
Our latest information on William H. Webb, Ph.D. is that he is now professor of chemistry at Missouri School of Mines, Rolla. He is in charge of analytical and radio chemistry there.

Harvard alumnus (AB) William L. Williamson, Ph.D. '60, is a staff member, with professional rank, of the chemistry department of Mt. Holyoke College, South Hadley, Mass.

Earl H. Winslow, Ph.D. '29, after having served General Electric for

PAUL M. TREICHEL, JR.

Assistant Professor



Badger chemist Paul M. Treichel, Jr., B.S. '58, headed for Cambridge, Massachusetts, in order to complete his formal education at Harvard. His objective achieved in

1962, he spent the following school year at the University of London on an NSF-sponsored postdoctoral fellowship. He joined the inorganic group at Wisconsin in the fall of 1963. His research on organometallic compounds of the transition metals with F.G.A. Stone at Harvard is being continued on this campus.

On June 4, 1961 he was married to Isabel Walk, a chemist with a B.S. degree from Simmons College and a Master of Arts degree in teaching from Harvard.

some 32 years in the Schenectady research laboratory, retired recently.

Oberlin alumnus (A.B. '22) Lloyd L. Withrow, Ph.D. '25, some-time assistant, and then instructor for one year after the University's highest degree had been conferred upon him, retired at mid-year (1963) when head of General Motor's research laboratories, fuels and lubricants department. He left the campus in 1926 to take a position with GM as a research chemist. His rise in the company was marked by several promotions; his accomplishments in his field were twice recognized by the Society of Automotive Engineers—he was a recipient of two Horning Memorial Awards. His research activities covered a wide range over the entire automotive field. He served the Society of Automotive Engineers as vice president in 1959 and the Combustion Institute as a director from 1954 to 1960.

Eastman Kodak's Carl W. Zuehlke, B.S. '38—Michigan conferred the doctorate upon him in '42—is currently assistant head of his employer's chemistry division in Rochester, N.Y. The Zuehlke's have two sons, Stephan, who is a Freshman at Oberlin and David, who has set his sights on Michigan State University for 1964. At this writing their parents are in Europe on an eight-week vacation-and-business trip.