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Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 12 Winter 1965

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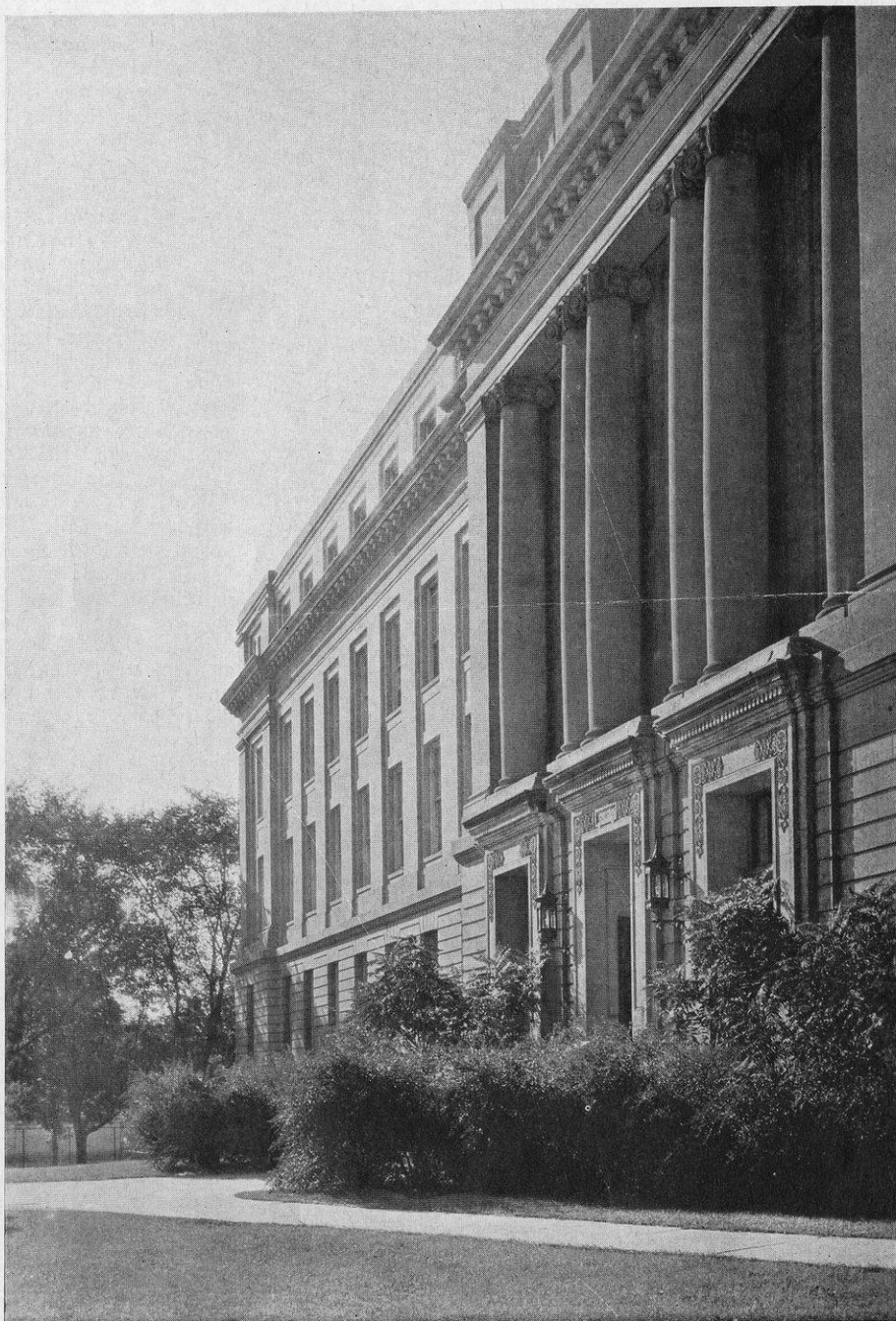
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BADGER CHEMIST

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

Newsletter 12

Winter, 1965



Our cover picture this year portrays the front of the old Chemistry Building as it appeared in 1923 before the East Wing was added. The picture originally appeared in a brochure prepared in connection with a hoped-for National Colloid Institute to be created on the campus.

BADGER CHEMIST

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

Editor

Emory D. Fisher, Ph.D. '35
Henry A. Schuette, Ph.D. '16
Editor Emeritus
Grace Legler, Assistant

Associates

M. L. Holt, Ph.D. '30
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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Editor's Column

As mentioned in the last issue we have succeeded Professor Schuette as editor of the Badger Chemist. We want you to know that the editor's work of the twelfth issue is almost entirely that of Professor Schuette. Truly it has been "a labor of love" on his part. It is our earnest hope that we can carry on in at least a small way the magnificent work he has done these past twelve years.

As a tribute to Professor Schuette you can do your part by making financial support of future issues one hundred per cent representative of all who receive this copy of Badger Chemist. A word of appreciation to him from each of you would be most appropriate. —E.D.F.

More About the Faculty

Three members of the Department's faculty are currently serving the ACS as members of the editorial board of some of the journals which are sponsored by it. Dr. Alberty is on the board of the Journal of Organic Chemistry, and Dr. Ihde is on the board of the Journal of Chemical Education. Dr. Ferry is a member of the advisory board of J. Colloid Science, a non-society-sponsored publication.

Mr. and Mrs. Ray Clinton Langford announced the marriage of their daughter Jean Marie to assistant professor Frank C. Andrews, son of Badger chemist Arthur C., Ph.D. '38; in Manhattan, Kansas, on June 21, 1964.

Besides publishing more than 100 papers per year, faculty members of the Department have been busy writing books as well. Frank Andrews is the author of "Equilibrium Statistical Mechanics", published by Wiley in 1963. Professor Aaron Ihde's comprehensive work of some 850 pages on the history of chemistry, "The Development of Modern Chemistry," came off the presses of Harper and Row in November 1964. The same publisher brought out the second edition of Professors Blaedel and Meloche's "Quantitative Analysis" late in 1963. Professor Sorum's books for freshman chemistry have also been brought out in fully revised editions by Prentice-Hall. Professor Farrington Daniels is the author of "The Direct Use of the Sun's Energy", recently published by Yale. Professor J. W. Williams served as editor of "Ultracentrifugal Analysis in Theory and Experiment" which was published by Academic Press in 1963.

Professor R. B. Bernstein is serving the American Institute of Physics—sponsored Journal of Chemical Physics as an associate editor.

Iowa State College Ph.D. alumnus Lawrence F. Dahl joined the Department as an instructor in 1957. Successive promotions since then have changed the picture; he began the current school year last September as a full professor.

Emeritus Professor Farrington Daniels early in October, 1964, began a seven-week series of some 30 lectures in as many visits to Sigma Xi Chapters in 26 colleges and universities in Indiana, Kentucky, Michigan, Ohio and West Virginia. His lecture subjects: "Direct Use of the Sun's Energy",

"Portable Electro Chemical Power", and "Fifty Years of Physical Chemistry".

In emphasizing research on solar energy he has traveled twice around the world, has visited Mexico, French Polynesia, and the Galapagos Islands off the coast of Ecuador to study local conditions. He returned to the campus an honorary degree richer; it was conferred upon him by the University of Louisville.

Professor and Mrs. Aaron Ihde used their daughter's position at the University of Aleppo as an excuse to visit Syria last summer. The day after seeing their son John receive his B.S. in science education—he is now teaching modern science and chemistry at Wausau High School—they flew to Rome where several days were spent in sight-seeing. Several days more were spent in Istanbul before boarding the Orient Express for the trip across Turkey to Aleppo where daughter Gretchen and her husband, Hal Serrie, were spending a year as English teachers in the Engineering College. A delightful ten days were spent in contact with the culture of the Middle East, inspecting the ancient citadel, visiting the bazaars, and viewing the nearby countryside. The return trip was made via Damascus, Beirut, Nicosia (air port only), and Athens. Since their return Hal and Gretchen have come back to the States where Hal presented his thesis for the master's degree in anthropology at Cornell. He has taken a position as instructor in anthropology at Beloit College.

Professor Muxfeldt read a paper at the International Congress for Natural Products in Kyoto, Japan, and participated in a symposium on microbial products in Tokyo. He spent the period from April 13 to 25 on his lecture tour over there.

Professor West at this writing (December) is serving as a Fulbright lecturer in organometallic chemistry in Kyoto University.

Professor Willard spent the first week of December in Vienna as a participant in the symposium presented there on the chemical effects associated with nuclear reactions and radioactive transformations. He presided at one of the sessions and, by invitation, read a paper entitled "Chemical Effects

(Continued on page 3, col. 1)

RICHARD J. KULA
Assistant Professor



Professor Kula is a native Iowan but has lived on the west coast a major portion of his life. His educational background includes B.A. and Ph.D. degrees at the Univer-

sity of California (Riverside), and one semester of graduate work at Massachusetts Institute of Technology. He joined the analytical staff in June, 1964. His research interests include nuclear magnetic resonance investigations of the structural and bonding properties of various metal-coordination compounds, and electrochemical behavior of metal complexes.

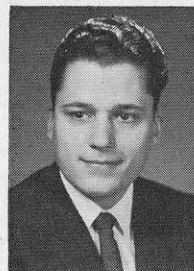
In June, 1962, he was married to Sandra Grubacich of Covina, California. The Kulas report that they have found life in Madison very stimulating.

A Delightful Refresher Course

Emeritus Professor and Mrs. H. A. Schuette in a sense took a "refresher course" in Biblical history last winter. It took them first to Rome and then to Naples where they boarded a cruise "yacht", the M.S. Stella Solaris, for what was to be a fascinating 14-day visit to the legendary lands of the historic Mediterranean. Ports of call were picturesque Malta where Christianity had been introduced, it is said, by the ship-wrecked St. Paul in 60 A.D.; Alexandria in Egypt which was made the point of departure of a motor coach ride over the desert to Cairo and a visit to its Egyptian museum and a look at some of the treasures of the 14 century, B.C., on display there and found in King Tutankhamen's tomb in 1922. The day ended with a visit to the pyramids and the Sphinx, dinner at the Nile Hilton, and a moonlit ride back to their ship. After a short stop in Port Said they moved on to Beirut in Lebanon and the well-preserved ruins of the Roman Acropolis in fabulous Baalbek; to Haifa in Israel for a visit to Tel Aviv (the first all-Jewish city of modern times), then to Jerusalem for a look at the striking new Hebrew University there on a campus that crowns the Judean Hills of this area; and so to Damascus in Syria. And on this note ended a delightful—and instructive—visit to the Holy Land. The next stop was at the fascinating Greek walled city of Rhodes whose harbor, so legend says, was once dominated by a huge bronze statue, the Colossus. Then followed stops first at Athens for a visit to the Acropolis and the Parthenon; then Delphi, the some-time home of the legendary Pythian oracle and, finally, two Sicilian cities, Messina and Taormina. The latter is a city popular with tourists who seek genuine "atmosphere" and is blessed by nature with enchanting scenery—terraced gardens and a magnificent view of Mt. Aetna.

The trip—it took them the length of the Mediterranean—continued from this point to Milan for a bit of opera at the La Scala, to Geneva, and then into Spanish territory: Barcelona, Palma in Majorca for Palm Sunday; then on the mainland to Valencia and Malaga for Good Friday and Easter, respectively; and to Granada for a visit to its foremost

JOHN E. HARRIMAN
Assistant Professor



Another Badger chemist, John Harriman, chemistry course graduate '59, joined the physical chemistry staff and the Theoretical Chemistry Institute in July, 1964. He received his Ph.D. in Chemical Physics from Harvard in '63. For 18 months he was an N.S.F. post-doctoral fellow with the quantum chemistry group, Upsala University, Sweden. His research interests include electron spin resonance of free radicals, theory of magnetic resonance, and molecular quantum mechanics.

Professor Harriman is unmarried. He includes photography and cooking among his hobbies.

treasure, the Alhambra and the Generalife with its magnificent Arabic gardens. It drew to a close at Gibraltar and ended in Madrid early in April.

Wedding Bells

Gretchen Ann Geriske B.S. '62, and David P. Hylton, exchanged wedding vows on 3 June, 1963, in the chapel of the Pacific School of Religion, Berkeley, California. At last report they were at home at 440 Kearney, El Cerrito. David is an engineer in the employ of Standard Oil of California.

Eugene P. Gosselink, Ph.D. '64 and Sandra K. Larson, B.S. (physical medicine) '64 exchanged wedding vows on 19 September, 1964, at Community Presbyterian Church, Clarendon Hills, Ill. At this writing, Gene is completing a year of post-doctoral work at the University of Toronto. In prospect is another year of the same, at Yale.

University College, Bahgdad, Iraq, alumnus Adli S. Kana'an, Ph.D. '63, and Carolyn Joy Westman, exchanged wedding vows in Madison's Immanuel Lutheran Church on 12 September, 1964. He, at this writing, is a post-doctoral fellow at Rice University.

Mary Lease, Ph.D. '64, became the wife of Wisconsin alumnus William Brady Deem on 24 August, 1963, in Bay Village, Ohio.

Faculty . . .

(Continued from page 2)

of Nuclear Transformations of Halogens in Organic Media"

Professor Zimmerman took part in the international symposium on organic photochemistry which was held in Strasbourg; lectured at three universities: Marburg, Munich and Braunschweig; and, in Zurich, Switzerland, the Technische Hochschule.

"To Dr. Sorum in Appreciation from Chemistry 110, 1964" is the dedication inscribed on a silver-plated copy of his text book in general chemistry given him by the class at the close of the second semester. Professor Sorum at this writing is away on leave of absence and is teaching at Stanford University. Enroute to California for a care-free summer in the family car the Sorums visited—and camped in—several of the nation's National Forests, in the west.

Professor Howard K. Thomas of Superior State University is spending the current academic year in the department as a visiting member of the staff of the general chemistry division.

Lecturing Abroad . . .

Sometime during the last school year, either participating in foreign scientific meetings or making educational surveys, were ten members of the faculty. The Department, in a sense, was heard from in eight different countries: Austria, Czechoslovakia, England, France, Germany, Japan, the Netherlands, and Switzerland.

Professor Alberty visited laboratories in Munich and Goettingen and read a paper at a meeting of the German Chemical Society in West Berlin; and Professor Berson was a guest lecturer of the Chemical Society in Birmingham, England, at its anniversary meeting early in April.

Chairman John D. Ferry was abroad twice: in April when he inspected Japanese universities on the invitation of the National Science Foundation with respect to the post doctoral situation there and American student participation there in. Later, as a guest of the Dutch Physical Society, he took part in a conference in Delft,

Holland, on the physics of non-crystalline solids after which he was in Paris for consultation at the French Rubber Institute.

Professor Blaedel, accompanied by his wife, spent three weeks in Europe: in Salzburg, Austria, to read a paper, in Prague where he took part in a symposium on radiochemical methods of analysis, and in London for personal visits.

Professors Larsen and Dahl were also visitors in Austria. They took part in the Vienna meeting of the International Conference on co-ordination chemistry. The title of Dr. Larsen's paper: "An alternate method for the determination of circular dichroism", that of Dr. Dahl's contribution to the meeting: "Structures and bonding of new type of transition organometallic complexes". Dr. Dahl took part also in seminars at the University of Munich and the Technische Hochschule in this city, and later paid the University of Marburg a professional visit.

Badger Chemists Aided by PRF Grants

Some 83 chemists received grants in 1964 from the Petroleum Research Fund of the American Chemical Society in support of their respective research projects. Among the group are three Badger chemists: Paul M. Treichel, Jr., B.S. '58; S. M. Darling, B.S. '54, and Gottfried Brieger, Ph.D. '61. Their research projects range from the carbon-boron double bond studies of Treichel, to problems pertinent to new synthetic methods of Darling, to investigations of synthetic transformations of natural products by Brieger. Treichel is a Harvard Ph.D. alumnus '62 and Darling earned his doctorate at Columbia in 1959.

recipient of the Silver Beaver Award from the National Council of Boy Scouts for outstanding service to boys.

Joseph J. Liskovec, B.S. '21, long associated with La Crosse Rubber Mills and active in local civic activities (school board, library and Boy Scouts)—on 4 April, 1964, in Madison.

John X. Newman, B.S. '10, (known also as Neumann)—8 April, 1964, in Butte, Mont.

Carl George Niemann, B.S. '31 (Ch.C.), Ph.D. '34 (biochemistry), professor of chemistry at California Institute of Technology—29 April, 1964, in Philadelphia.

Paul L. Pavcek, B.S. '33, (Ch.C.), Ph.D. '37 (bacteriology), some-time employee of Lake States Yeast Corporation—30 March, 1964, in Bethesda, Md., where he had been a NIH scientist.

Louis M. Pruess, B.S. '27 (Ch.C.), Ph.D. '30 (biochemistry), member of scientific staff of Lederle Labs, Inc., Pearl River, New York—July, 1964.

Frank J. Seeman, B.S. '12, (Ch.C.), retired science teacher in the Los Angeles public school system—29 September, 1963.

John M. Street, Ph.D. '26, retired vice-president for research at Firestone Tire and Rubber Company—he had completed in 1964 a 37-year record of service with it during which time he had played an active part in the development of synthetic rubber—Akron, Ohio, on 25 September, 1964.

Vera May Templin (Mrs. B. F. Temple)—about five years ago, in Boulder, Colo.

In Memoriam

Robert F. Bunde, Ph.D. '56, research chemist with Honeywell Regulator Company, Minneapolis, fatally burned in a traffic accident on the highway near Elgin Air Force Base when the company-owned car in which he and a colleague were riding was hit by an unmanned B-49 drone plane—on 19 August, 1964.

William A. Flogaus, B.S. '20 (Ch.C.), some-time employee of Union Trust Co. Chicago—on 24 December, 1961, in Winnetka, Illinois.

Myron T. Herreid, B.S. '21, a retired vice president of Koppers Company whose career spells a rise from the chemist's laboratory to an executive's chair—on 16 February 1964, in a Madison hospital.

Max Hirsch, B.A. '08, retired president and chairman of the Molybdenum Corporation of America—August, 1964, in New York.

Maldwyn L. Jones, B.S. '14 (Ch.C.), M.S. '16, at one time an employee of Sears Roebuck—7 June, 1960, in Oak Park, Illinois.

Arnold S. Jackson, B.A. '16 and M.D. '19 (Columbia), internation-

ally known surgeon and director of a Madison clinic bearing the family name, a past president of the U.S. section of the International College of Surgeons, an honorary member of surgical societies in Rome, Madrid, Florence, Bordeaux, Sao Paulo, and Vienna, a past president of the Four Lakes Council of Boy Scouts in Madison and Beautiful Madison, Inc.—on 30 August, 1964.

Michael W. Klein, Ph.D. '24, emeritus associate professor of chemistry—he ended his 40-year career as an educator in 1960—on 12 December, 1964, in Fresno, California, while a patient in a Veteran's Hospital.

Robert F. Koenig, B.S. '07, a life-long resident of Freeport, Ill., a strongly civic-minded citizen of his native city and retired treasurer of W. F. Rawleigh Company—on 27 January, 1964, at home.

Edwin H. Kroeker, Ph.D. '34, B.S. '29, Kansas State College, some-time assistant in the Department and member of the chemistry department of Bethel College and then research chemist with Rohm & Haas Company—on 4 November, 1964, in Tryland, Pa., at age 58. He was active in the Boy Scouts of America for many years and a

This 'n' That About Our Alumni The Botts Bequest

Duff S. Allen, Jr., Ph.D. '60 was transferred some two years ago by American Cyanamid Company, Bound Brook, New Jersey, to its Lederle Laboratories in Pearl River. For Duff it was more than a mere change in address: a promotion to group leader.

We have learned that Chemistry Courseman **Morris H. Aprison**, B.S. '45 and Ph.D. (biochemistry) '52 has been promoted from associate professor to professor of biochemistry in the department of psychiatry and biochemistry at Indiana University's School of Medicine, Indianapolis. He is also principal research investigator of biochemistry at the Institute of Psychiatric Research a position which was held since joining the staff in 1956.

Two Badger chemists are serving at this writing on the advisory board of Analytical Chemistry: their names, **Gilbert A. Ayres**, Ph.D. '30, and **G. A. Harlow**, Ph.D. '55.

Three universities have a claim of sorts for alumni support on Badger chemist **William Perrin Baker, Jr.** He arrived on the Wisconsin campus with a Haverford—conferred, B.S. '49; stayed here until he had earned an M.S. '51; then continued his graduate studies at Iowa State where he won the doctorate in 1955. He has been a Du Pont research chemist since that time.

Some-time Rhodes Scholar **Robert L. Baldwin** B.S. '50, was on leave of absence from Stanford's Medical School during part of the 1963-64 school year in order to spend five months of research at the Pasteur Institute, Paris. His five-month stay at the Institute completed, he divided the remaining three months of his European visits to research centers in Naples and in Goettingen.

Chemistry Commerce graduate '35 **Joseph F. Behrend**, did not practice chemistry very long after graduation. Medicine had a greater appeal for him than did his first choice of profession. Result: enrollment in Wisconsin's "Med" school and an M.D. in 1950. He now has a Sun Prairie, Wisconsin, address.

Edward M. Bevilacqua, Ph.D. '44, of U.S. Rubber Company's research center in Wayne, New Jersey, is serving the ACS Division of Rubber Chemistry as editor of

its "Rubber Chemistry and Technology".

Illinois alumnus (B.S. '59) **R. Byron B. Bird**, Ph.D. '50, is a member of that select group of Badger Chemist educators who are now chairman of their respective departments; in his case it is Wisconsin's Chemical Engineering Department.

Miami University alumnus, **Gary D. Blue**, Ph.D. '63, may be addressed in care of the Lawrence Radiation Laboratory of the University of California, Berkeley.

Wayne University (B.S. '54) alumnus **Robert D. Bocksch**, Ph.D. '60, is serving the chemistry department of Whitworth College, Spokane, Washington, as its chairman.

At this writing Illinois alumnus (B.S. '34) **Gerald T. Borchardt**, Ph.D. '37 is serving Du Pont as the manager of its planning and development department. His is a career which began in 1939 as a research chemist with his present employer. It has been uninterrupted except for a one-year tour of duty in 1944 in the U.S.N. His transfer to marketing analysis in the polychemical department was the prelude for his promotion to an assistant sales managership in charge of the then newly created plastics sales programming staff. His promotion to his position as above stated came in 1958.

The name **Borchardt** appears twice in our Badger Chemist mailing and both Borchardts are Du Pont employees. **Hans**, Ph.D. '56 had served General Electric before taking his present position with Du Pont.

It has come to our attention that **Eugene O. Brimm**, B.S. '38—earned his doctorate at Illinois—has been transferred from the Tonawanda laboratories of Union Carbide Corporation, Linde division, to the parent company's technical relations group in Geneva, Switzerland.

The year 1964 was a memorable one for **Robert G. Briody**, Ph.D. '64, and his family. In March of that year they became a two-boy family; in late August they, the winners of a drawing held by a local merchant, were bound for New York on an all-expenses paid trip, plus a generous allowance ear-marked for "extra spending money". Bob is now an adopted

The Chemistry Department was the recent beneficiary of a gift of \$2500 presented by Mrs. Elbert D. Botts in memory of her late husband who received his Ph.D. from the department in 1924. Dr. Botts was professor of chemistry for many years at San Jose State College. From 1950 until 1958 he was chief Chemist and Chemical Engineer for the California Department of Highways. In 1958, when he learned that he suffered from an incurable disease, he retired in order to enjoy a round the world cruise with his wife.

Dr. Botts was deeply devoted to his Alma Mater and was an enthusiastic supporter of the Badger Chemist. In his last letter to the Editor, on March 7, 1962 he wrote, "While I have enjoyed, in a way, making a guinea pig of myself for the past several years, it would have been a lot more fun to have won some of the battles."

The Department plans to hold the bequest in reserve until the new Chemistry Building is completed when it will probably be used to furnish a seminar room in Dr. Bott's memory.

Texan in the employ of Pittsburgh Plate Glass.

Our list of Badger chemists serving, or having served, an ACS Division, continues to grow. The latest addition is Du Pont **John E. Castle**, Ph.D. '44, who is serving the probationary Division of Fluorine Chemistry. We understand that the division will continue and expand the meetings sponsored by the former Fluorine Subdivision of the Division of Industrial and Engineering Chemistry.

We were pleasantly surprised to find in volume VI of *Polymer Reviews*, (1964, pp. 471-517), a scholarly discussion on the characterization of high polymers in solutions—with emphasis on techniques at elevated temperatures. Robert is a research chemist on the staff of Chemstrand's Research Center in Durham, N.C. He is the husband of the former Ruby Wong, M.S. '49 whose father, John, was a Chemistry Course graduate in 1914.

James C. W. Chien, Ph.D. '54, joined the staff of Hercules Powder Company upon graduation. He has now senior research chemist standing in the company's (Continued on page 6, col 1)

This 'n' That . . .

(Continued from page 5)

research center west of Wilmington, Del.

William C. Child will be remembered to his classmates as the chap who collected a car, a wife, a Ph.D., and a job within 30 days in 1924. He still has the wife and the degree. He left the job with Esso Standard on a Friday evening in 1958. Following a weekend in retirement he began teaching general chemistry at Fairleigh Dickinson U. on Monday morning, holding this job until June 1964. Since 1956, Bill and his wife, Rose, have travelled extensively—to Europe, Mexico, Guatemala, and the South Pacific to Australia. At this moment they are starting a three-month trip around the world.

A four-year association with the staff and students of the Department ended in 1949 when Chemistry courseman **Robert A. Clayton** received his B.A. degree. He then enrolled in the College of Agriculture Graduate School for work in biochemistry. The doctorate achieved in 1953, he joined the faculty of George Washington University; and there after three years he left the academic field for the industrial in which he served American Tobacco Company as its head of biochemical research. He has been with General Mills since 1959 as head of fundamental food research, and currently is director of the food science activity of its central research laboratories.

The business card of **Robert F. Conary**, Ph.D. '38, reads "manager, Beacon Research Laboratories, Research and Technical Department, Texaco Inc.", Beacon, New York. Bob came to Wisconsin with a B.S. '34, in chemical engineering, Minnesota. He served the Department for four years as teaching assistant. . . Badger Chemist status achieved, he took a job with his present employer as a research chemist. In 1942 came his first promotion, that of assistant supervisor in the fuels department, and after that came more recognitions and increased responsibilities. His present position dates from 1960. It was preceded by a short term as assistant manager.

Procter & Gamble's **Edwin J. Conklin**, M.S. '60, finds time, we understand, when he is not working as a practicing chemist to teach a course in organic chemistry to his fellow employees.

Ralph W. Connor, Ph.D. '32, of Rohm & Haas Co., has been named to the ACS Board of Directors executive committee for 1965.

To Butler University alumnus (B.S. '29) **Arthur C. Cope** Ph.D. '32, has come another recognition. This time it is the William H. Nichols Award of the A.C.S. New York Section.

William J. Cotton, M.S. '12, has retired as head of the W. J. Cotton Laboratories, the consulting firm he founded in Milwaukee in 1947.

Some-time teaching assistant **Stuart P. Cram**, M.S. '63, was, at last report, continuing his graduate studies at Illinois.

As of December, 1963, **Ralph G. Czerepinski**, B.S. '62, was pursuing graduate work at the University of Washington, Seattle.

Three Badger chemists are in the list of 24 A.C.S. award winners announced last September. Beloit alumnus **Stephen Dalnogare**, Ph.D. '48, and now senior research chemist of Du Pont's plastic department, has been named to receive the Lab-Line award in chromatography and electro-phoresis. He is author of a book on chromatography. **Arthur C. Cope** Ph.D. '32, has been named to receive the Roger Adams award in organic chemistry. **Robert H. Wentorf, Jr.**, Ph.D. '52, a research associate with General Electric, has been selected for the Ipatiff prize.

If his building schedule had been met when we last heard of the project then under way, the **Guido H. Daub**, Ph.D. '49, family is now living in its new four-bedroom abode house in Albuquerque, N.M. Did the senior Daub's contemplated two-week visit in 1964 to the University of Mainz, Germany, materialize?

Robert J. Dimler, Ph.D. '40, has become director of the USDA's Northern Laboratory (Peoria) for research on uses of farm products.

Harry R. Dittmar, Ph.D. '28, heads a family which holds, collectively, five Wisconsin-granted degrees. He has three, his wife holds a B.A. in commerce, and their son Bruce, a Bucknell alumnus, and M.S. '58. Harry, after serving the Department for two years following graduation with instructor's rank, became a Du Pont in 1930. Because of successive promotions since that time he now heads the planning division of the Plastics Department.

A 34-year association with the petroleum industry came to a close

last year when Oregon State alumnus, '56 **Fred F. ("Duke") Divoky** Ph.D. '30, retired as manager of the Texas City plant of Amoco Chemicals Corporation.

A brief note from **B. P. Domogo**, B.S. '22, Ph.D. (biochemistry '25), written last September at sea on S.S. United States says "Just arrived in Europe. Was called to help solve new water troubles in different parts of Europe."

Another Badger chemist to have made news because of recognition via the awards route is **William D. Ehman**, M.S. '54 and Ph.D. (Carnegie Inst.) '57. He holds an associate professorship at the University of Kentucky and received, in 1963, a \$500 UK Alumni Research Award in the field of radiochemistry applied to geochemical problems. He is spending the current academic year at the Institute for Advanced Studies, Australian National University, Canberra, Australia as a Fulbright Research Scholar in Geophysics.

On 1 April, 1965, **Warren A. Field**, B.A. '35, will have completed a 25-year service record as a development chemist with Hoffmann La Roche, Inc., manufacturers of fine medicinal drugs and vitamins. The Fields are living at 14 High Street, Passaic, New Jersey.

University of Detroit alumnus **Dervin L. Flowers**, M.S. '53, Ph.D. '60, and his wife were campus visitors last September. They are California residents now: their address, 46 Auevo Avenue, Redwood City. Dervin is employed by Ampax Corporation.

Amberst alumnus **Richard W. Franck**, M.S. '60, is assistant professor of chemistry at Fordham University, Bronx, New York

Chemistry course graduate **Ralph Fries**, B.S. '18, reached retirement age several years ago while an employee of Electric Storage Battery, Ray-O-Vac division, Madison, Wisconsin. Ralph had been manager of research services. He had served in an advisory capacity during the latter years of his association with Ray-O-Vac.

Albert J. Fry, Ph.D. '64, is a member of the chemistry staff of Wesleyan University, Middletown, Conn.

Our last information (as of 1963) on Chemistry Course graduate **Richard H. Golder**, B.S. '44, is that he is a research associate at the University of Pennsylvania. Temple University granted him

(Continued on page 7, col. 1)

This 'n' That . . .

(Continued from page 6)

the Ph.D. degree in 1957. The five-year interlude between the termination of his Wisconsin campus days and his return to Philadelphia and the academic field found him active, in turn, in three different industrial positions. In the past 15 years he has applied his talents as a biochemist in this present area of concentration. He had done post-doctoral research at the Physiologisches-Chemisches Institut, Philipps University, Marburg, Germany.

Ralph U. ("Deke") Gooding, B.S. '23 (Ch.C.) and Ph.D. '31, on graduation took a job with Du Pont in its dye works and then in 1923 he came to Madison and enrolled in our graduate school. This date marks not only the end of whatever ambitions he might once have had for a career in industry but also the beginning of one as an educator. The doctorate achieved, he joined the faculty of Illinois State Normal School as instructor in chemistry; he retired recently as professor and head of its physical science department. A trip to Alaska during the summer of 1964 is, we suspect, the prelude to some European travel.

Adon A. Gordus, Ph.D. '57, is an associate professor of chemistry at the University of Michigan. He is serving also as associate director of Michigan's honors program in the College of Literature, Sciences, and the Arts.

An excellent record whose like is probably not to be found in the Department's records has been made by one of the distaff members of the senior class of 1960. Phi Beta Kappa graduate **Sharon L. Gray** served as research assistant to Prof. W. S. Johnson for a short time after reaching Badger chemist status. She then enrolled for graduate work at Stanford University where the doctorate was conferred upon her in 1964. At last report she was engaged in post-doctoral research at Massachusetts Institute of Technology.

Two-degree Badger chemist **Jack D. Graybeal**, M.S. '53 Ph.D. '56, sometime assistant in chemistry and, upon graduation, a member of the technical staff in the microphysics department of Bell Telephone Laboratories, now has a Morgantown, W. Va., address. At last report he had associate professor rank at the university there. Jack is married to the former

Professor Klein Passes On

Michael William Kline died in Fresno, California, on December 12, 1964, following a number of years of poor health. He retired



from the faculty in the summer of 1960 as Emeritus Associate Professor of Chemistry and had been spending his summers in Madison and his winters in Fresno.

Professor Klein was born in Appleton, Wisconsin on January 30, 1895. He received his bachelor's degree at Lawrence College. During World War I he served in the U. S. Army. When the war ended he was transferred to the Chemical Service in Baltimore, Md. In

1920 he started graduate work at Wisconsin where he earned his M.S. in 1923 and his Ph.D. a year later, his research being done under the late Professor Richard Fischer.

He remained at the University of Wisconsin during the rest of his professional life, playing an important role in connection with the undergraduate courses in organic chemistry. During four decades students appreciated his warm personal interest in their instruction. During this time he served as co-author of "Practice of Organic Chemistry" (with H. Adkins and S. M. McElvain) and "Experiments in Organic Chemistry" (with W. S. Johnson and A. L. Wilds).

The chemistry of dyes was a field of particular interest and Dr. Klein was considered an authority on the azo dyes and the terphenyl-indizoids. During World War II he was involved in a classified project sponsored by the U. S. Office of Scientific Research and Development.

Besides his professional work "Mike" was a talented "Do-it-yourself" enthusiast. He was deeply involved in the building of his beautiful home outside Nakoma and maintained a productive orchard and garden on the 10-acre grounds until poor health forced him to move back into Madison. He was famous for his smoke house and the tasty bacon and sausages produced therein.

Dr. Klein is survived by his wife, Ester, and his daughter, Elizabeth.

Evelyn Nicolai, B.S. (H.Ec.) '53 and M.S. (Library Science) '54.

"Going up" — and rapidly — describes the career that Neil V. Hakala, Ph.D. '43, is making with Esso Research and Engineering. His latest move as of August 1, 1964, is from the position as European vice-president to deputy refining coordinator here at home. Neil has moved rapidly into several executive positions during the past few years.

It has come to our notice that Illinois alumnus (B.S. '59) **Daniel F. Harnish**, Ph.D. '64, has joined the staff, as a research chemist, of Allied Chemical's research laboratories, Morris Township, N.J. Dan served the Department successively, as teaching assistant, and Professor West as research assistant. Appointment to a Stauffer Chemical Company-sponsored fel-

lowship then came his way. He rounded out his on-campus stay as a project assistant for one semester.

Chemistry course graduate **John E. Harriman**, B.S. '59, now the possessor of a Harvard-conferred Ph.D. degree ('63), has returned to our campus: his title, assistant professor.

Another name was added to our list of Badger chemists serving, or having served, ACS as a division chairman; and the person in question is Wisconsin native **Lawrence J. Heidt**, Ph.D. '30. He is currently chairman of the Northeastern Section, and a member of the faculty of Massachusetts Institute of Technology.

Another recognition has come to physical chemist **Takeru Higuchi**, (Continued on page 8, col. 1)

This 'n' That . . .

(Continued from page 7)

Ph.D. '43 of Wisconsin's School of Pharmacy. This one is the Justin L. Powers Award in Drug Standards and Assay of the American Pharmaceutical Association.

The **James F. Hornigs**, Ph.D. '55 and '56, respectively, have a new address: Department of Physical Sciences, Dartmouth College, Hanover, N. H., from Riverside, Calif. Associate professor Hornig was recently named chairman of the science division there and associate dean of the faculty of arts and sciences.

Ray C. Houtz, Ph.D. '32, now retired, is back in the academic field where he started, 1928-32, as an assistant in the Department. The interlude between then and now was made up of by a 22-year association with DuPont, some ten years with Toni of Chicago and a temporary appointment with Northwestern. He is now an associate professor of chemistry at Winona, Minnesota.

The life story of Carroll College alumnus (B.A. '38) **Hugh M. Hulburt**, Ph.D. '42, from the time that he got his first job in the academic field as an assistant in the Department to the present—he is now chairman of the chemical engineering department at Northwestern University's Technological Institute—spells an alternation between the former and industry. He spent a year after graduation as a National Research Fellow at Princeton, then joined Shell Oil as a research chemist, and in 1944 joined the faculty of Hunter College as an instructor. In 1946 he made an affiliation with Catholic University in Washington, D.C., with the rank of assistant professor of chemistry and chemical engineering. In 1951 he returned to industry (Chemical Construction Corporation) which he left later as its director of research and development to take the directorship of the physical research department at American Cyanamid's Stanford laboratories. He has been devoting some of his time to editorial services for ACS since 1962.

Some eight years ago we reported that **Paul R. Johnson**, B.A. '34, Ph.D. (Minnesota) '38 had informed us that his daughter, Betty Helen, had enrolled at Wisconsin. There was some doubt in his mind, apparently, as to her major. Betty did, however, follow her father in his choice; she was granted a B.S. degree in 1959 as a chemistry ma-

yor. She is the wife of Raymond Longhi.

Illinois alumnus (B.S. '22 and M.S. '23) **Glen H. Joseph** appeared on the Wisconsin scene in 1925 on completing a three-year stint as an instructor at Kansas State Agricultural College. He remained at Wisconsin as a graduate student for two years. The first of these he served as an assistant in physical chemistry; the second as the recipient of a fellowship. His objective achieved, he applied his newly acquired knowledge in colloid chemistry to fundamental studies on citrus pectin in the research department of California Fruit Growers' Exchange. Out of this activity came his elevation to head of the Corona branch of Sun-kist research and development department. His scientific contributions to the citrus industry are many and significant. Appreciation of his work and the esteem in which he was held by his colleagues led recently to the Award of Honor of the Lemon Men's Club which was given him in the summer of 1963, following his retirement.

From Long Beach State College, California, has come word of the promotion of **Gene F. Kalbus**, Ph.D. '57 to associate professor.

We were pleased to find the name of Badger chemist **J. G. Kane**, Ph.D. '43, of the University of Bombay on the program of the World Fat Congress which met in Hamburg, Germany, October 12-18, 1964, under the patronage of the President of the Federal Republic of Germany and the sponsorship of the International Society for Fat Research and Die Deutsche Gesellschaft fuer Fettwissen schaft. Dr. Kane—he is the Department's first native of India upon whom had been conferred the doctorate — presented two papers; one a report on his studies of mahwa fat, the other a discussion of some minor fatty oils of India.

Kenneth E. Keller, B.S. '51, an Oscar Mayer employee for some ten years and a school teacher for two years thereafter, is now enrolled in the University's Library School as a candidate for the master's degree in library science.

Kenneth L. Kirk, Ph.D. '64, spent a year in post-doctoral study at the University of Braunschweig, Germany, and is now a staff member of the chemistry department of Cornell University, Ithaca. His residence address: 101 The Parkway.

(Continued on page 9, col. 1)

Happy Landings

The year 1964 could well be an historic one for the **Klaus-Jochon Behling** family: they started a family—it is a son who was born that year—and Klaus successfully completed his graduate studies for the doctorate. Formal action on it by the Board of Regents will follow in January, 1965.

As of St. Patrick's Day, 1964, the **Robert Briody**, Ph.D. '64, family became a two-boy unit. The younger son was named, appropriately, Patrick Kevin. The Briodys are residents of Corpus Christi, Texas. Bob is a research chemist at Pittsburgh Plate Glass.

To the **William D. Ehmanns**, B.S. '52 and M.S. '54, was born their first daughter, Kathleen Elizabeth, on 28 November, 1963. Theirs is now a four-children family.

The arrival of their second daughter, Margaret, was announced on 13 April, 1964 by her parents, the **Herbert H. Espys**, Ph.D. '56. She followed her sister by some 17 months.

The former **Betty Helen Johnson**, B.S. '59, some-time American Cyanamid employee, and her husband **Raymond Longhi**, Ph.D. (Ill), announced the birth of a son, Jon David, in December 1962. The Longhis are living in Waynesboro, Va.

The **Paul J. Kropps**, Ph.D. '62, became parents on 8 March, 1964, upon the arrival of a son. Paul is a research chemist on the staff of Procter & Gamble at its Miami Valley laboratories.

The **Fred H. McCarrons**, Ph.D. '56, announced the arrival of Jon Scott on 23 November, 1963. Is theirs now a two-children family?

Carlton Placeway, Ph.D. '61, and his wife, the former **Patricia M. Yeandle**, B.S. '59 (H.Ec.) welcomed their first child, Paul Wesley, to the family on 16 February, 1964.

Another two-girl family is that of **Martin F. Sloan** Ph.D. '60, and his wife Marie. Susan Anne joined her sister Michelle on 15 March, 1964. The family has a Wilmington 3, Del., address.

The **Philip L. Weyna** family, Ph.D. '58, was enlarged by one on 9 November, 1964, with the arrival of a girl, Ruth Ann. She has two sisters, Margaret and Therese, and a brother Paul.

This 'n' That . . .

(Continued from page 8)

Chemistry course graduate **Harold J. Koepsell**, B.S. '40—he went over to the Ag. College for graduate work in biochemistry and the doctorate, '44—has made a change in activities: from Upjohn in Kalamazoo, Mich. to Southern Illinois University, Carbondale where he has professorial rank in its chemistry department.

Word came last September that **William F. Koerner**, Ph.D. '49, had been promoted from research group leader in the organic chemicals division to manager of the physical sciences center in Monsanto's central research department in suburban St. Louis. The center provides analytical, physical chemical, physics, and electronics service and consultation for all of the six research departments which are in it.

Illinois alumnus **James J. Korst**, Ph.D. '59, is at this writing, a five-year employee of Chas Pfizer and Company. The Korst family—two boys and one girl—is using the following home address: Old Post Road, Old Lyme, Conn.

Albert R. Krall, B.S. '50, made biochemistry Ph.D. '54, his chosen field of concentration upon graduation as a chemistry major. He is now a member of the faculty of Miami's Medical College.

In the 1959 newsletter we noted that Chemistry Course graduate **Ignace J. Krehma** B.S. '27, had been a Du Pont since graduation from Wisconsin. In this issue of *Badger Chemist* we report that he has been director of the company's research division of the pigments department, and has retired after 37 years of dedicated service to his former employers.

Wilbur J. Larson, Ph.D. '51, is now serving Mallinckrodt Chemical Works, St. Louis, Mo. as assistant director of quality control. His promotion from his former position as research chemist became effective on 1 January, 1964; and for him it must have been a nicely timed New Year's greeting.

Paul M. Laughton, Ph.D. '50 has returned to his post at Carleton College, Ottawa, Canada, after having spent a sabbatical year at the University of California (Berkeley). Carleton, the youngest college in the British Commonwealth—it was founded in 1942—is growing fast. Its need for a chemistry facility is already obvi-

Our Newest Alumni

The Department's alumni list for fiscal 1963-64 increased by some sixty per cent since June, 1963, when the total number of grads—undergraduate and graduate—reached 123. The senior class of 63 accounted for the most of this increase; the Ph.D. class of 29, for all practical purposes remained unchanged in number; and the 31 master's group appears to be an all-time high. (Our best information at this writing of the total number of master's degrees, M.A., M.S. and Ph.M., conferred since 1886 is of the "order of magnitude" 930.) Five members of the senior class had been selected for distinctive scholastic achievement; one of them now wears a Phi Beta Kappa key (he was elected also to Phi Kappa Phi) and

another "made" the latter group. Seventy per cent of the senior class was certified to the American Chemical Society as having met its requirements for membership, the others not meeting the Society's foreign language prerequisite, could not be recommended for this privilege.

Some 25 colleges and universities are presented in the list of schools whose graduates make up the 29-member group of new Ph.D.s. Information as to the future plans of this group is sketchy at best. But it appears, however, that some nine of its members will enter the academic field, that about an equal number will pursue post doctoral studies abroad, and that industry has attracted the rest.

ous; a three-million dollar building is under construction.

A Badger chemist is serving the American section of the Society of Chemical Industry in New York. His name: **Samuel Lenher** B.A. '24 D.Sc. '59.

Robert H. Levin, Ph.D. '41, left the Illinois campus upon receiving the B.A. degree in 1937 and arrived on the Madison scene to begin his graduate studies as a teaching assistant in the Department. His four-year "tour of duty" successfully completed, he joined Upjohn's research staff in 1941. His has been an unbroken association with the company, interrupted only for a year in 1944 when he served as a civilian with the Office of Scientific Research and Development. His present position as assistant director of research spells a series of promotions among which are group leader and department head.

We understand that **Tien-Hui Lin**, M.S. '51, Ph.D. '55 (biochemistry) is now on the staff of Wistar Institute, Philadelphia; from Smith, Kline and French Laboratories.

Lester G. Lundsted, Ph.D. '42, has been moved up by Wyandotte Chemical Corporation from director of research to director of inorganic and organic chemicals research and development. He continues to be responsible for analytical research and chemical engineering research in the company's research and development division.

Donald T. Lurvey, B.S. (Ch.C)

'38, superintendent of the Joliet, Ill., laboratory of Natural Gas Pipeline Company of America, has the distinction of having been named chemist of the year by the ACS Section of that city.

Robert E. Lyle, Ph.D. '49, we understand, is now professor of chemistry at the University of New Hampshire, Durham, N. H.

Word has come from the west coast that **Darwin L. Mayfield**, Ph.D. '50, has been named chairman of the chemistry department at California State College, Long Beach.

Ronald L. Martin, Ph.D. '57, was a guest of the Department on 5 November, 1964. He had been invited to address a special analytical seminar. His subject: Gas Chromatography: theory and research applications.

Albert J. Milun, Ph.D. '51, now has principal scientist status at the James Ford Bell research center of General Mills.

We have learned that **Stanley B. Mirviss**, Ph.D. '51, is now with Stauffer Chemical Company at its Chauncey Research Laboratory, in the New York state city of that name. He came to Stauffer from Esso Research and Engineering.

Two-degree Badger chemist **C. Keith McLane**, B.S. '43 and M.S. '44, completed his formal education as a physics major with a Harvard-conferred Ph.D. degree. At last report he was a staff member of the National Bureau of Standards, Washington 25, D.C.

(Continued on page 10, col. 1)

This 'n' That . . .

(Continued from page 9)

Chemistry Course graduate **Walter E. Militzer**, B.S. '33, elected to cast his lot with the biochemists upon graduation. The Ph.D. in biochemistry achieved in 1936, he joined the faculty of the University of Nebraska as instructor in 1936. After that, in due time, came promotions through all the professional ranks to his present position as dean of arts and sciences. His research interests center on the enzymes.

Wesleyan alumnus (B.A. '41) **Leonard E. Moody**, Ph.D. '44, upon graduation joined the research staff of Standard Oil Development Company—it is now known as Esso Research and Engineering Company. Milestones in his career, there are the assistant directorship in 1957 and, more recently deputy vice-president for chemical research.

Some-time teaching assistant (1948–50) **Lowell E. Netherton**, Ph.D. '50, was transferred early in 1964 by Victor Chemical Works, Chicago Heights, Ill. to the parent company's research center in Chauncey, New York. His title: manager of process development.

John F. Nimz, B.S. (Ch.C.) '47, is one of Union Carbides numerous employees. Our last information on him is that he has a New York address.

From the University of Minnesota, where he has now reached full professorship standing, has come word that Badger chemist **Wayland E. Noland**, B.A. '48, Ph.D. '52 Harvard, has been honored by the alumni association of its Institute of Technology which last summer (1964) bestowed upon him its Distinguished Teaching Award.

Mary Jane Oestmann, Ph.D. '54, is at the Institute of Nuclear Science and Engineering, Argonne National Laboratory, Lemont, Ill. She is responsible, we understand, for the radioisotope program offered to graduate and undergraduate students and faculty members from universities and colleges as well as the foreign participants and affiliates at the Institute.

Maurice Oehler, M.S. '61, Manakato State College alumnus heads the chemistry department of Campion high school in Prairie Du Chien, Wisconsin.

Socrates P. Pappas, Ph.D. '63 is now a member of the chemistry staff at Emory University, Atlanta, Ga., with assistant professor rank. His wife the former

Betty C. Thompsen, is a Badger chemist also, Ph.D. '64.

Donald K. Pennelle, M.S. '63, at last report, was continuing his graduate studies for the doctorate at the University of Colorado.

St. Olaf alumnus (B.A. '26) **James H. Peterson**, M.S. '28 and Ph.D. '30—he is one of the 14 "Oles" mentioned in the newsletter of 1954—retired upon completing an unbroken 34-year association with Du Pont. He was at that time a section supervisor in the physical and analytical division of its Experiment Station.

Union College alumnus (B.S. '50) **Ralph H. Petrucci**, Ph.D. '54, has a new address: from Western Reserve University to California State College—where he is professor of chemistry—in San Bernardino.

Carlton Placeway, Ph.D. '61, has left Du Pont and is now a member of the staff of Chemical Abstracts Service. His new address: 326 Broad Meadows Blvd., Columbus, Ohio, 43214.

Oberlin alumnus (B.A. '58) **David L. Powell**, Ph.D. '62, on completing a two-year postdoctoral appointment at the University of Minnesota, joined the faculty of the College of Wooster, Ohio, to teach courses in physical chemistry and to direct student research. David, while on the campus was, successively, a teaching assistant, a research assistant, and a Dow Chemical fellow.

Allen K. Prince, Ph.D. '56, joined the research staff of Dow Chemical Company upon graduation. He is now a group leader in the chemical development department. His wife, an Indiana alumnus, had presented him with three girls; ages range from fourteen to eight years.

Armand J. Quick, M.S. '19 (Ph.D. Illinois '22; M.D., Cornell '28) retired as chairman of the Department of Biochemistry, Marquette University, in June, 1964. The previous year he was honored by the Milwaukee Section of the ACS as the sixth recipient of the Milwaukee Section Award. His award address was entitled, "The Story of Vitamin K".

We learned from a brief visit in mid-October with campus visitor **John Rae, Jr.**, (1) that he is the midwestern recruitment representative of the Shell Companies (Shell Oil, Shell Chemical, Shell Development and Shell Pipe Line Corporation) (2) that his wife the former **Dorothy Swift**, B.S. '41 and M.S. '43, has presented him with two boys and two girls ranging in

age from 20 years to nine, and (3) that one son and one daughter are attending the University of Texas.

Ralph (Rahinsky) Reynolds, B.A. '47, is now president of Pylam Products, Inc., a dye supply company with its plant near Kennedy International Airport. He resigned his position as executive vice president of Acoustica Associates, an electronics firm, in 1960 to purchase control of Pylam.

John M. Schempf, B.S. '34, (Ph.D. Cornell, '38), has been named assistant dean of the graduate school at Pennsylvania State University and director of the graduate center serving the Harrisburg-Lancaster-York area.

St. Norbert College alumnus **Sterling Randall**, M.S. '50, a staff member of the University's Wausau Center, was named last year by Gov. Reynolds to the governor's educational advisory committee.

Sirhatti V. Rao, Ph.D. '58, has senior scientific officer rank at the Regional Research Laboratory, Hyderabad 7, A.P. India. The Rao family now numbers five children, three of which are boys.

It's a promotion for **Richard T. Rapala**, Ph.D. '49, of Eli Lilly & Company: from senior organic chemist to research associate.

Manfred E. Reinecke, B.S. (Ch.C) '56, Ph. '60 (California, Berkeley) has moved from the University of California (Riverside) to Fort Worth, Texas, and is now a member of Texas Christian University's department of chemistry.

We understand that Ansul Chemical Marinette, Wisconsin vice president **William R. Rinelle**, B.S. '33, has been named manager for all of its products. The family name again appears in the University's student directory. (Is Cara A. L. & S. freshman, your daughter? Ed.)

Russell C. Sauers, B.S. (Ch.C.) '42 is now technical assistant to the director of Dow Chemical's organic chemical production research.

Chemistry Course ('42) graduate **Harry P. Schultz**, Ph.D. '42, served the 100-member Florida Section in 1964 as its chairman. Harry, we have learned, takes advantage of his proximity to the Atlantic. The following quotation from a Christmas letter of 1963, provides a case in point. "The five of us were guests aboard a yacht, cruising the northern Bahama Islands for two wonderfully relaxing weeks of beautiful sights, tranquil nights, fishing and swimming."

(Continued on page 11, col. 1)

This 'n' That . . .

(Continued from page 10)

Michigan alumnus (B.S. '30) **Frank K. Sinaigo**, Ph.D. '36, served the late Professor Homer Adkins as research assistant while a graduate student in the Department and became a Du Pont upon achieving Badger chemist status. His rise from his first position there as research chemist to that of director of research in the photo products department in 1950 spells a series of some five promotions, plus a war-time year as a civilian in the Office of Scientific Research and Development.

H. S. Shahani, M.S. '49, has a new address: from New Delhi, India, where he was associated with the Ministry of Education and Scientific Research, to Washington, D.C. He is now on the staff of the Education Department of the Embassy of India. Of his new duties he says, "My main job is to look after the Indian students who are here."

Henry M. Shuey, Ph.D. '49, is the recipient of an American Institute of Aeronautics and Astronautics award for his research in the application of aluminum for the stabilization of solid propellant combustion. He is head of the Ballistics section. Rohm and Hass Company Redstone Arsenal research division, in Huntsville, Ala.

Edward F. Smissman, Ph.D. '52, holds a professorship of pharmaceutical chemistry at the University of Kansas School of Chemistry. His title was recently changed to read Distinguished Professor.

Theodore Smith, M.S. '39, spent the 1964 summer session in Madison as a graduate student. He is a resident of Muscatine, Iowa, and a some-time employee of the Celon Company (now a division of Thatcher Glass Company). Ted at last report was enrolled in Iowa's Graduate School. The Smiths are the parents of two girls of high school age and a son who is studying law at the University of Iowa.

We understand that University of Buffalo alumna **Pearl M. Snitker**, M.S. '55 is serving the United Church Board of World Ministries, Boston, as a career missionary in Ho Ghana, West Africa.

Wheaton College alumnus, **Thor L. Smith**, Ph.D. '48, served the Department for four years as a

teaching assistant and then became a research chemist with Hercules Powder Company. From his position he moved in 1954 to Cal. Tech's jet propulsion laboratory as a research engineer. Two years later he became chief of the solid propellant chemistry section and, then, in 1959 he began to serve the Stanford Research Institute as head of propellant research and development. At last report he was chairman of its propulsion department.

Brigham Young University (B.S. '48) alumnus **Phil G. Squire**, M.S. '51, served the Department as a teaching assistant some 15 years ago and then joined the staff of the Cutter Laboratories as a biochemist. The University of California conferred the Ph.D. degree upon him in 1957. He describes himself as a bio-physical chemist and has assistant professor rank.

Charles H. Stammer, Ph.D. '52, has left the industrial field for the academic: Merck Sharp & Dohme to the University of Georgia, Athens, Ga.

Is **Frederick J. Stare**, B.S. '31 the first Badger chemist to have had an honorary D.Sc. degree conferred upon him by a foreign school? In Fred's case it was Trinity College in Dublin, Ireland, which "did the honors". He holds a professorship of nutrition at Harvard's school of Public Health, is chairman of his department, and is one of the four new directors of Continental Can Company whose election was announced last year.

Unnstein Stefansson, M.S. '46 (Ph.D. Copenhagen, '62), has become adjunct professor of zoology at Duke University. He had been an oceanographer with the University Research Institute at Reykjavik, Iceland.

Chemistry course graduate **J. V. Steinkle**, B.S. '20, Ph.D. '24, is currently serving on the Scholarship Awards Committee for the Johnson's Wax Fund, Inc., a philanthropic organization which derives its major support from S. C. Johnson and Son, Inc. The fund has a broad program for encouraging higher education in one of seven areas: undergraduate and graduate scholarships or financial aid to students in the U.S.A.; special undergraduate scholarships to sons and daughters of employees;

(Continued on page 12, col. 1)

Her Prayers Were Answered

Some 15 years ago National Central University alumna **Ruby Wong Chiang (Mrs. Robert)**, M.S. '49, daughter of the late Badger chemist **John Wong**, B.S. '14, left Tientsin, her home town in North China, to pursue graduate studies in the States. Wisconsin was her choice of schools. (If our memory serves, it was a choice which hinged on a decision: Vassar, which had admitted her, or her father's alma mater). Not long after her arrival on the campus the political situation in China worsened. North China was overrun by the "Reds", her father's tannery fared badly—an understatement—and Ruby found herself cut off from direct contact with her family. On the brighter side of the picture, however, were the several scholarships given her to alleviate a financial embarrassment, brought on by the break in contact with her family; the successful conclusion of her graduate program; a fellowship in foods and nutrition at the University of Syracuse; return to the campus and marriage to fellow countryman **Robert S-H Chiang**, who at the time was a doctoral candidate—Professor Schuette, substituting for her father gave her in marriage—and an appointment to a position in the Department of Oncology. Four children listed alphabetically as named and chronologically in the order of birth (Amy, Beverly, Clement, and David), comprise her family.

The most significant events for her in 1963 were the arrival in the States of her sister **Rhoda** in February of that year and her mother in July. Both had come directly from Communist China. They were allowed to bring out only one dollar each at the point where they crossed the border into Hong Kong. Rhoda has a full-time research assistantship at Duke University in Durham, N.C., where the Chiang's are making their home. Ruby summarizes the hectic events of the past 15 years as they had affected the family by saying, "So you can see we now have a big family, every bit true to the Chinese tradition."

Her prayers were answered; her patience was rewarded.

This 'n' That . . .

(Continued from page 11)

undergraduate and graduate scholarships or financial aid to students from abroad—they must be nominated by associate companies of the firm—research fellowships; matching contributions by employees to colleges and universities; grants to non-tax assisted colleges or universities matching the tuition portion of the undergraduate scholarships; unrestricted grants to universities and colleges.

We have learned from **Paul S. Stutsman '38**,—he is assistant to the president of Texas—U.S. Chemical Company Port Neches, Texas—that his daughter Martha became an alumna of De Pauw University at Commencement in June, 1964, and a bride on the following day. She and her husband are, at this writing, in Bogota, Colombia, where they are working on an educational TV project of the Peace Corps.

The name SVOBODA occurs twice in our list of Badger chemists. **Glenn R. B.S. '52** at this writing is serving the Milwaukee ACS Section as the Editor of the Amalgamator. He is employed by the Freeman Chemical Corporation of Fort Washington, Wis. **Marjorie Huber Svoboda, B.S. '43** and **M.S. '47**, is the wife of Gordon Svoboda and the mother of three girls: the youngest is six years old, the oldest is 13. The Svobodas are living in Indianapolis. He, a School of Pharmacy Ph.D., is a member of the scientific staff of Eli Lilly and Company.

Phi Kappa Phi graduate **June Adair Swift, B.S. '59** (Mrs. George Ewing) enrolled at the University of California for graduate work upon leaving the Wisconsin scene. Along with several hundred of her classmates she had been selected on her senior year for distinctive scholastic achievement. At Berkeley she earned the master's degree and then joined the Chem Study Staff in Claremont, California, to work on the production of films for use in the teaching program. The Ewings are now residents of Bloomington, Indiana, where he is a member of the faculty of the University there and she, in her own words, "is doing interesting work" for Professor Walter J. Moore with the electron microscope on various aspects of brain chemistry.

Du Pont employee **Robert T. Tarney, Ph.D. '58**, has a new address: Roundelay Farms—he is co-owner—Creek Road, Chadds Ford, Penn.

Edward L. Tatum, B.A. '31, son of a former Wisconsin professor (newsletter 1957) is the second Badger Chemist to have been rewarded by Alma Mater with an honorary D.Sc. degree. It was conferred upon him at last June's Commencement.

Our last report on Middlebury College alumnus **B.A. '40, Kenneth L. Temple, M.S. '42**, revealed that he is a staff member, with professorial rank, of the department of microbiology, Montana State College, Bozeman.

Howard G. Tenneth, Ph.D. '42, was a campus visitor on 22 October, 1964, at which time he addressed the Department's Chemistry Colloquium. His subject: "Mechanism of Ziegler Polymerization of Olefins." Howard is a senior research associate at Hercules Research Center.

James Y. Tong, Ph.D. '54, is now an associate professor in the chemistry department at Ohio University, Athens, Ohio. The Tong's three daughters are aged 2, 9, and 5.

Ralph F. Turner, B.B. '39 (Ch.C.), has returned to Michigan State University after a year's leave of absence as a Fulbright scholar in Taiwan.

Charles D. Underbrink, B.S. '61 has made a change in employers: from U.S. Forest Products laboratory in Madison to Eli Lilly and Co., Indianapolis, Ind.

Donna Seiler Vanseth (Mrs. Richard) **B.S. '62**, spent a year following her graduation in successful study for the master's degree. The Vanseths are living in Oakland, California, 94600. Donna, an honors student during her undergraduate days, is employed as a research chemist by American Oil Company.

J. Wade Van Valkenburg, Jr., M. S. '51, (Ph.D., Michigan), has become chairman of the Division of Agricultural and Food Chemistry for 1965. He is a group leader in plant science research and development at Dow Chemical.

Eugene R. Wagner, Ph.D. '64, is employed by Pittman-Moore Company, Division of Dow Chemical, Indianapolis, Ind.

University of Kansas alumnus (**A.B. '27**) **Arthur G. Weber, Ph.D. '30**, arrived on the campus with an

appointment as teaching assistant assured. The doctorate achieved, he accepted Du Pont's offer of a job as a research chemist in the ammonia department of the Experiment Station; and he is still with his first employer. Milestones in his career to date are marked, figuratively, project leader, group leader, laboratory director, manager, administrative and engineering, research division, poly-chemicals department. He has been with the personnel and employee relations division since 1956.

William H. Webb, Ph.D. '49, is chairman of the newly created department of chemistry at the University of Missouri at Rolla (formerly Missouri School of Mines and Metallurgy, Department of Chemical Engineering and Chemistry).

Chemistry Courseman **Bruce D. West '57**, on graduation enrolled in the Graduate School for work in biochemistry as a candidate for the Ph.D. degree. It was conferred in '62. He is now associated with the department of chemistry of the University of New Mexico, Albuquerque.

Charles Winans, Ph.D. '33, has returned home after having served Koppers Company in its Zurich, Switzerland office for several years.

Ohio State alumnus (**BS. '49**) **Layton J. Wittenberg, Ph.D. '53**, is manager of the reactor fuels section of Monsanto Research Corporation's Mound Laboratory in Miamisburg, Ohio.

It has come to our attention that **Bruno H. Wojcik, Ph.D. '34**, Illinois alumnus (**B.S. '30**) some-time manager of research and development for Olin Matheson's industrial division, Baltimore, and more currently scientific advisor to marketing for its marketing division, has joined VIDA's Southern Utilization Research Development Division as assistant director for industrial development, in New Orleans.

Cornell alumnus **Warren W. Woessner, Ph.D. '40**, is chief production supervisor of Du Pont's Orchem department. A son, at last report, is a student at his father's Alma Mater.

Ivan A. Wolff, Ph.D. '40, we have learned, has been named president of the Society for Economic Botany. He heads the Industrial Crops Laboratory at the U.S.D.A.'s Utilization Research and Development Division, Peoria, Ill.