



# **Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 23 October 1976**

University of Wisconsin--Madison. ; Dept. of Chemistry  
Madison, Wisconsin: Dept. of Chemistry, University of Wisconsin,  
October 1976

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# BADGER CHEMIST

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

Newsletter 23

October 1976



## THE STATE STREET MALL

The above scene shows the pedestrian mall created at the campus end of State Street as it looked after plantings had been finished this spring. Lincoln Terrace and Bascom Hall in the background will be familiar to all, as is the Historical Society Building at the right. The Humanities

Building at the left and Van Hise Hall behind Bascom are recent construction. Many of the elms on Lincoln Terrace still survive but some have been lost and the fate of the rest is dubious.

## BADGER CHEMIST

Published by the Department of Chemistry of the University of Wisconsin, Madison, with the financial assistance of its faculty, alumni and friends.

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## THE EDITOR SPEAKS

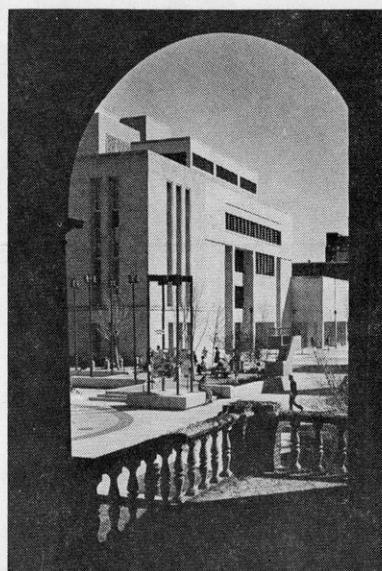
At the risk of being accused of playing the same old record, we plead for continued support of the *Badger Chemist*. Financial support came forth at a commendable rate a year ago but it was nevertheless necessary to go to the departmental faculty in January to ask them to pick up the still uncovered \$260 of the printer's bill. They responded cheerfully in spite of the fact that this was the second time in the past three years that they had to rescue their colleague who repeatedly engages in deficit financing.

The cause was helped last year by a number of \$25 contributions but we are hesitant to depend, year after year, on the supergenerosity of a few of the faithful, together with a fairly sizable flow of fives and tens. We would have a healthier budget if we could depend on a large response of ones and twos from a larger number of Badger Chemists. In fact, if all recipients of the newsletter sent a buck each year there would be no financial problems and a surplus could be contributed to a worthy departmental cause such as enrichment of the library.

How about it? We need your help to get this issue paid for and keep the editor's credit rating on a satisfactory basis. Thanks in advance. AJI.

## THE STATE STREET MALL

Our cover picture this year features the recent opening of the newest campus gathering place, the State Street mall. As reported a year ago, State Street has now been closed to vehicle traffic from Lake to Park Streets and has been converted into a pedestrian mall; the space between the State Historical and Memorial Libraries, the area oldtimers recall as the Lower Campus which was the scene of the annual Bag Rush, ROTC drill teams, and intramural fraternity



Another view of the mall looking northeast from the porch of the University Club toward the recently finished addition of the Memorial Library.

football games is an adjacent area. Following the need for classroom space associated with the influx of GIs in 1946, quonset huts covered the Lower Campus to provide an annex for the University Library and classrooms for courses crowded out of permanent university buildings. The last of the quonset huts were removed in the early 50s and the space converted into a grassy mall with a fountain in the center. The original fountain was a dinky affair spraying three tiny streams of water at the time of its dedication. The original fountain head was later replaced by one sending a modest spray into the air. The fountain pool has been a great attraction for waders aged 2 to 62. At first university police frowned upon the practice, but it is now accepted as a normal way of life.

The extension of the mall to include two blocks of State Street provides a substantial promenade and includes elevated platforms where speakers may address assembled audiences, a practice which formerly took place on the grassy mall between the library and led to extensive destruction of the grass. It is not at all uncommon to walk down the mall and have an opportunity to listen to speeches, impromptu or organized, dealing with politics (ranging from extreme left to extreme right), religion (all sorts, including some varieties not yet documented in religious encyclopedias), attitudes on education, Zen Buddhism, and virtually any other subject which one might wish. The mall also serves on occasion as the site of more formal meetings and pep rallies, concerts, and other organized activities. Very frequently one can listen to singers motivated to sing or musicians motivated to produce music. Or one can patronize the stalls of the vendors at the Lake Street end who sell everything from roses and ivy to earrings made of walnut shells, macrame hangings, student prints, wax candles, health foods, and used books.

Although bitterly fought by State Street merchants and automobile drivers, the mall is adding a new dimension to campus life. It shows many aspects of permanency. It has an air of peacefulness compared to the previous onrush of automobiles and the stench of exhaust fumes.

## SECOND STERLING HALL BOMBER SENTENCED

On August 6, 1976 David S. Fine was sentenced to seven years in prison for his part in the 1970 bombing of Sterling Hall. Fine had been apprehended on January 8 in Marin County, California after having been at large since the bombing. After being returned to Wisconsin and scheduled for trial, Fine entered a plea of guilty to charges of conspiracy and unlawful flight. Karleton Armstrong, who had been apprehended in 1972 and tried in Madison is now serving a 23 year sentence in Waupun. The two other suspects, Dwight Armstrong and Leo Burt remain at large.

# This 'n' That About Our Alumni

**Robert A. Alberty**, PhD '47, posed the question, "Are we training too many scientists and engineers?" before the membership of the National Academy of Sciences at its annual meeting in Washington, DC. Rather than giving a firm answer Alberty predicted that while doctoral production will decline about 9% by 1985 there will still be substantial needs for highly trained scientists, but some of these needs lie in new areas.

**Gilbert A. Ayres**, PhD '30, retired as professor emeritus in June 1974. He has been a member of the Chemistry faculty at University of Texas-Austin since 1947. He continues to reside in Austin at 3307 Perry Lane.

**G. C. Bailey**, BA '09, (PhD Yale '16) sent us a generous contribution from 260 West Jersey Street, Elizabeth, NJ where he is now retired. He writes that they made the usual rounds last summer and are back in Elizabeth for the winter. He sends best regards to Henry Schuette.

**James A. Bain**, BS '40 (PhD Pharmacology '44) is Professor of Pharmacology in Emory University where he also serves as Director of Basic Health Sciences and since 1965 as Executive Associate Dean of the School of Medicine.

**Thomas I. Bair**, PhD '66, and **Myrna North Bair**, MS '66, PhD '68, report a second addition, Catherine Lynn, born October 20, 1975. They live at 2303 Mousley, Beacon Hill, Wilmington, DE. Although Myrna is not now a practicing chemist, she is active in a group of citizens concerned about energy conservation.

**Kenneth Barnett**, PhD '67, was recently promoted to Associate Professor at the University of Missouri at St Louis.

**Lloyd Beck**, PhD '44, sent a contribution from 15 E. Charlotte St., Cincinnati, OH, but without news of his recent activities.

**Edwin M. Becker**, PhD '53, also included no news. He lives at 3253 Chatwin Ave., Long Beach, CA.

**John Belew**, PhD '52, is now Dean of the College of Liberal Arts at Baylor University in Waco, Texas.

**Robert W. Bickes, Jr.**, PhD '70, has taken a position with Sandia Labs in Albuquerque, New Mexico.

**Robert B. Blodgett**, PhD '40, is chief engineer in the power cable

department of the Anaconda Co. He was associated with the rayon department of du Pont immediately after graduation, then spent 15 years with Okonite. He reports keeping busy with his Columbia 40 sloop and his studies of navigation. He lives at 75-11 Courtland Ave., Stamford, CT.

**Robert Boettcher**, PhD '72, has been with 3M Company for three years. He is in the electro products division working on thermo setting resins. Likes it fine. He reports that **Judith Fahey** started work there about four months ago in the visual products division. Judith is a degree candidate with Professor West.

**James W. Bothwell**, BS '47 (PhD Biochem '54) was among eight employees who received the Johnson Medal for Research and Development last fall. The medal is awarded to employees of Johnson & Johnson and bears the likeness of the late General Robert Wood Johnson, former Chairman of the Board of the Corporation. Jim is manager of skin biology research and was honored for his role in the development of the arterial heterograft of bovine origin.

**Hans Breuer**, BS '47, MS '48, writes that receiving the Badger Chemist reminds him that he was once young and carefree. He was appointed Senior Research Manager at Carter-Wallace in 1974 and has been elected to the Council of the New Jersey Institute of Chemists. One of his boys is now at Penn State, the other in high school; his wife operates an antique shop. In his letter Hans inquired about the whereabouts of classmates who finished in the late 40's.

**Robert G. Briody**, PhD '64, writes from 625 Williamson Pl., Corpus Christi, TX. No news.

**John W. Brooks**, MS '36 (PhD Iowa '41) retired from Mobil Oil Company in 1971 and now lives at 20 Rivard Rd., Naples, FL.

**Frederick L. Browne**, PhD '20, reports a change of address to Oakwood Village, Apt. 600 at 6201 Mineral Point Rd., Madison. Dr. Browne served for many years as a chemist with the Forest Products Laboratory.

**Bertie L. Browning**, PhD '28, has been retired from the Institute of Paper Chemistry at Lawrence University since 1967. He anticipates that the second edition of his

*Analysis of Paper* should be out this year. His daughter Carol, MD '62, at the UW, is a neonatalogist at Milwaukee. Dr. Browning lives at 21 Cherry St., Appleton.

**Trudy Tarzy Bryson**, BA '68, (Continued on page 3, col. 2)

## OVERVIEW, 1976

The end of summer in Madison finds the campus astir with 37,000 students while the community prepares for the fall elections, debates the comparative virtues of Truax Field vs. downtown as the site for the expanding MATC (Madison Area Technical College—formerly Vocy Tech in old Central High), holds its breath regarding whether there will ever be a city auditorium (the Capital Theater auditorium keeps running into snags), speculates on the identity of the next UW president, and stands in line overnight for tickets to the Elvis Presley show at the Dane County Coliseum. There were mixed reactions to a Carnegie Foundation report which said that Wisconsin ranks first nationally in percentage of state personal income spent on higher education. There was pride in the announcement that WHA-Television is the leading public television station in terms of reaching the largest percentage of available area viewers.

There has been substantial interest in the state in discoveries of promising mineral deposits in northern Wisconsin. There is evidence that copper and zinc deposits in Forest County (on the Michigan border) are among the largest known in North America. These discoveries followed earlier finds near Ladysmith. Kennecott Copper is making plans to undertake mining of the Ladysmith deposits. Exxon USA is making test borings near Crandon in Florence County. The discoveries are creating much discussion since the sections involved have been economically depressed for decades. An active mining development sounds attractive to many residents. However, the area has been attractive as a vacation region and the environmental deterioration associated with open pit mining is unattractive to many.

The discoveries also create po- (Continued on page 4, col. 1)

## Overview . . .

(Continued from page 3)

litical problems since the state has never been noted for mineral wealth except for the marginal lead and zinc deposits in the southwest which were worked out early. The state lacks satisfactory legislation for satisfactory management of major ore resources, both with respect to taxation policy and environmental controls.

The university continues to grow on a statewide basis but regent policy is aimed toward stabilizing the size of the Madison Campus at its present level.

The chemistry department continues its active program of teaching and research. Assistant professor Bryan C. Sanctuary resigned from his position in the Theoretical Chemistry Institute in order to accept a position at McGill University. The Institute now welcomes Frank Weinhold whose coming is treated elsewhere. These are the only faculty changes in the past year. It will be recalled that Dr. Sanctuary had strong roots in Canada.

## SUCCESSION TO THE PRESIDENCY

The announcement of UW President John Weaver that he intended to step down from the presidency next June set in motion the machinery which will result in selection of a successor. Weaver had been hospitalized a year ago with a heart ailment and underwent open heart surgery last summer. Although he now claims to be in good health, he has decided to step down from the presidency and plans to return to the geography classroom next fall.

Speculation has begun regarding Weaver's successor. The Board of Regents has now created a 17-member search and screen committee which will look at the field of potential candidates and narrow it down to a small number for serious consideration by the regents. The committee is made up of four regents, the State Superintendent of Public Instruction, three UW System Chancellors, six faculty members—three from Madison and three from other units, and three students—two from Madison, plus three ex-officio members—two regents and a vice president.

Names which have been mentioned frequently as serious candi-

dates include: Madison Chancellor Edwin Young, Senior VP for Administrative Affairs Donald Percy, L and S Dean E. David Cronon, University of Washington provost Irving Shain, Beloit College President Martha Peterson, and Robert Alberty, PhD '47, now Dean of Sciences at MIT. Both Shain and Alberty are remembered as members of the UW chemistry faculty.

Shain joined the analytical division in 1952, fresh from his PhD at Washington. He became chairman of the department in 1967. In 1970 he moved up to Bascom Hall to become Vice-Chancellor for Academic Affairs on the Madison Campus and in 1975 he left Wisconsin for his present position at Seattle.

Immediately after finishing his PhD with Professor Williams in colloid chemistry, Alberty joined the departmental faculty in the physical division, rising to the rank of full professor in 1956. He was made dean of the graduate school in 1963 when Professor John E. Willard, PhD '35, stepped down from that position in order to devote more time to his research and teaching. In 1966 Alberty took his present position at MIT.

## This 'n' That . . .

(Continued from page 3)

appreciated receiving her first copy of *Badger Chemist* and reported having fun catching up on her professors' activities and those of former classmates. Trudy is among a number of alumni who received *Badger Chemist* for the first time as a result of our new policy of obtaining address print-outs from the Alumni Records Department. Trudy is associated with Rosco Laboratories in Port Chester, NY. This company produces scenic materials used in TV, theater, and films. Trudy is doing research and development as well as quality control.

David H. Buchanan, PhD '69, is a faculty member in the Chemistry Department at Eastern Illinois University. His letter expressed pleasure with the issue reporting Tally's retirement and expressed concern about failure to wear safety glasses while performing the zinc-sulfur reaction.

Clifford J. Burg, BS '37, reports his retirement and a change of address to 8836 La Entrada, Whittier, CA. Clifford married Laura Drescher who will be remembered

by alumni of the 30's period as a secretary and librarian in the department.

Paul Carpenter, PhD '41, left the Nunn Electric Company in 1974 to become affiliated with Draco Corporation. Paul lives at 1325 Marilyn Dr., Baton Rouge, LA.

Albert S. Carter, PhD '27, reports from 5550 Bayview Drive, Ft. Lauderdale, FL that good health is a luxury which he still enjoys. The fishing has been poor and the orchids have suffered from too much rain.

James C. W. Chien, PhD '54, is on a sabbatical leave from the U of Massachusetts to work at the Max Planck Institute for biochemistry in Munich, Germany.

Robert Clemmer, PhD '76, has taken a position in the Chemical Engineering Division of Argonne National Laboratory where two of Professor Larsen's students have been located for some time: Donald Vissers, PhD '60, and LaVerne F. Trevorrow.

LaVerne Clifcorn, PhD '34, was honored at the 35th Annual Meeting of the Institute of Food Technologists in June 1975 by being elected Fellow of the Institute. His citation called attention to his "success in enhancing the quality of our food supply by his work in the stabilization of iodine in salt, the preservation of nutrients and flavor in canned foods, and for leadership in advancing excellence in the field of food technology. Dr. Clifcorn has been a past President of IFT. He spent eight years as a chemist with the Wisconsin Department of Agriculture and Markets before joining Continental Can Co. He retired from Crown Cork & Seal Co. in 1966 and now lives at 155 N. Ela Rd., Barrington, IL 60010.

Robert E. Conary, PhD '38, reports that he is taking early retirement after 38 years with Texaco, the last of them in Belgium. His present address is Box 973, North Adams, MA; though he reports on planning to build a house near Stamford, VT.

E. D. Coon, PhD '32, writes that he would not like to miss any issue of the *Badger Chemist* even though there are not many friends from his student days in the department. Dr. Coon, who lives at 404 Hamline St., Grand Forks, ND was head of the chemistry department at U of North Dakota before his retirement.

Charles Cooper, who was on the analytical staff around 1950 has

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# NEWS ABOUT OUR FACULTY

**Phillip R. Certain** has been elected treasurer of the Madison chapter of American Association of University Professors.

**David R. Crosley**, who joined the physical division faculty in 1969, has been with the Ballistics Research Laboratory at the Aberdeen Proving Ground in Maryland since fall 1975.

**Glen E. Dirreen**, PhD '72, coordinator of freshman chemistry laboratories in the department, is also a coauthor, with B. Shakhshiri and Professors Gilbert P. Haight and Milton P. Hanson of the University of Illinois of a *Manual for Laboratory Investigations in General Chemistry*. This laboratory manual has been developed out of work in the freshman laboratories at Wisconsin and Illinois.

The promotion of **Dennis H. Evans** from associate to full professor in the summer of 1975 was overlooked in *Badger Chemist* No. 22.

Chairman **Richard F. Fenske** has been listed in the 39th edition of *Who's Who In America* along with 38 other Madisonians listed for the first time in this edition.

**John D. Ferry** was a participant in the Chemical Congress of the North American Continent in Mexico City. He has also given invited lectures at University of Michigan, Kent State, General Tire and Rubber, International Institute of Synthetic Rubber Producers, ACS Great Lakes Regional Meeting, and the Winter Gordon Conference on Polymers, the latter being held in Santa Barbara, CA.

The promotion list of June 1976 carried the name of **Donald F. Gaines** who was moved to a full professorship. Don serves as Chairman of the General Chemistry Division and continues his chairmanship of the hazards committee. He spent this summer in Europe attending the USIC Conference in Saint Andrews, Scotland and the IMEBORON III Conference in Munich. While in Europe he also gave lectures at the Universities of Strathclyde, Glasgow, Edinburgh, Cambridge and Bristol.

MIT Professor **Richard H. Holm**, who was associated with UW Chemistry Department in the mid 60s was recognized with the ACS Award in Inorganic Chemistry which is sponsored by Texas Instruments.



**Joseph O. Hirschfelder** was among the recent recipients of the National Medal of Science for 1975. This medal was recently reactivated after being placed on the back burner

during the Nixon administration. Professor Hirschfelder was recognized "for his fundamental contributions to atomic and molecular quantum mechanics, his theory of the role of chemical reactions, and his structures of the properties of gases and liquids." Joe is quoted as remarking, "This is the nicest thing that has ever happened to me." He went on to say, "In a sense we all build on the accomplishments of others. There is a long list of colleagues who have helped through the years. It is a triumph for them as much as for me." Joe, who is Homer Adkins Professor of Theoretical Chemistry at UW has given lectures at the Universities of Minnesota, Utah, Southern California, Berkeley and Santa Barbara during the past year and was a lecturer at the International Academy of Quantum Molecular Science.

Emeritus Professor **M. L. Holt**, PhD '30, is now in his 5th year of retirement. During his frequent visits to the department, he claims to be enjoying life to the fullest with golf, skiing, gardening and visits with other Holt families in Florida and on Cape Cod. During the past year he and Gretchen traveled with Wisconsin alumni to Yugoslavia by way of Rome, with island visits to Sicily, Malta, Corfu and a flight to Istanbul.

**Aaron Ihde** has lectured extensively during the past year in connection with the Centennial of the ACS and the Bicentennial of the USA.

**Alex Kotch** is Chairman-elect of the ACS Wisconsin Section and continues to serve on the Executive Committee of the local AAUP chapter. In his role as Associate Chairman, Alex continues to be active in the Faculty Senate Committee involved in teaching assistant negotiations and is Chairman of the Committee on awards to

teaching assistants for excellence in teaching. In August 1976, the Kotches attended the graduation of their son Axel who received his bachelor's in French with a minor in Art History from UW-Eau Claire. Their son Robert is a sophomore at Oberlin College; their daughter Jennifer is a senior at James Madison Memorial High School.

**Edwin M. Larsen** has returned to nuclear problems after 30 years. He is working with nuclear engineers on concept designs of D-T fusion.

**Stephen F. Nelsen** was promoted from Associate to full Professor in summer of 1975.

**Marion O'Leary** is the author of *Contemporary Organic Chemistry: Molecules, Mechanisms, and Metabolism*, recently published by McGraw-Hill. He has been a member of the organizing committee of the Harry Steenbock Symposium on isotope effects in enzyme-catalyzed reactions which was held in Madison in June 1976.

**M. Thomas Record** was presented the *Distinguished Teaching Award* of the Madison chapter of Phi Beta Kappa in spring 1976.

**Hans J. Reich** gave the Rayonier lectures at University of Idaho last April. In July he served as an invited Lecturer on Organic Reactions and Processes at the Gordon Conference held in New Hampton.

Emeritus Professor **C. Harvey Sorum**, PhD '27, has recently seen publications of his well-known *How To Solve General Chemistry Problems* in its 5th Edition. He now shares authorship of this widely used problem book with Robert S. Boikess of Rutgers University.

**Barry M. Trost** gave lectures at four Swiss universities during the summer of 1975 in connection with his American-Swiss Foundation Fellowship. He has also lectured extensively at universities and ACS Sections in the United States. In July 1976, he was Plenary Lecturer at the 5th International Symposium on Medicinal Chemistry. Also his lectures dealt with new applications and reactions in organic synthesis based upon small ring chemistry, sulfur chemistry, and organopalladium chemistry. He was recently elected to the executive committee of the Organic Division of ACS.

**Robert West** spent March and April 1976 in Japan as Visiting

(Continued on page 6, col. 1)

## Faculty . . .

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Professor at Tohoku University. About half of the time was spent visiting and lecturing at universities and laboratories in Nagoya, Kyoto, Osaka and Tokyo. While in Japan he was able to find a few days for some mountain climbing during which he and his Japanese companions became lost in a fierce storm near the summit of Mt. Yatsugadake.

**John C. Wright** was an invited speaker at the "Frontiers of Analytical Chemistry" symposium held at the Regional ACS meeting in Chicago last June. This was followed by an invited talk on the spectroscopy transition of elements at an international conference held in Lyon, France.

**Howard Zimmerman** has been busy with a large number of invited lectures at a number of ACS meetings and was Plenary Lecturer at the 6th International IUPAC Symposium on photochemistry held in July in Aix-En-Provence. During the trip to Europe he also gave lectures in a number of German universities. His book, *Quantum Mechanics for Organic Chemists*, was published in 1975. His work on the Möbius-Hückel parallel to the Woodward-Hoffmann rules has begun to appear in undergraduate textbooks as "Dewar-Zimmerman rules". We also report that on November 7, 1975 he was married to Martha Kaufman.

## This 'n' That . . .

(Continued from page 4)

just completed 5 years of work in Chile and is now associated with the Department of Metallurgical Engineering, Queens University, Kingston, Ontario.

**Joyce Corey**, PhD '63, gave a lecture in the Chemistry Department last February. Joyce is with the Department of Chemistry, University of Missouri, St. Louis.

**Milford A. Cowley**, PhD '33, found the "Town and Gown" item of the last Badger Chemist especially interesting. Milford is now retired from his faculty position at UW-La Crosse.

**Glen Damon**, PhD '32, visited the department last May when he was in Madison for the 50th reunion of his class of '27. He retired from the Bureau of Explosives, U.S. Department of Interior, in 1972, but continues part-time advisory

## HELFAER PROFESSORSHIP TO TROST

Just before going to press we learned that the regents have named Barry Trost to the Evan P. and Marion Helfaer Professorship of Chemistry. This newly-created name professorship honors **Evan Philip Helfaer**, BS '20, and his wife. Helfaer was founder and president of Lakeside Laboratories in Milwaukee up to the time of its purchase by Colgate-Palmolive in 1959. His death on February 2, 1974 was reported in *Badger Chemist* no. 21; Mrs. Helfaer died in 1968.

During his lifetime Helfaer was associated with a number of medi-



Evan P. Helfaer

cal, cultural, and philanthropic causes in Wisconsin. He served for a time on the board of the Wisconsin Foundation and in 1972 received the Wisconsin Alumni Associations Distinguished Service Award. During his lifetime he made contributions of more than a million dollars to the Madison and Milwaukee branches of the UW.

work with the Bureau. In 1970 he received the Distinguished Service Medal of the Department of Interior.

**Guido H. Daub**, BS '44, PhD '49, has been honored by the New Mexico Institute of Chemists, a division of the American Institute of Chemists, with its annual Honor Scroll Award. Guido is Chairman of the Department of Chemistry at U of New Mexico. The inscription reads, "In recognition of his accomplishments as a dedicated and innovative teacher . . . and for the high quality of research and publications in the field of organic chemistry." Guido's daughter Betsy is a graduate student in chemistry at MIT.

## ZIMMERMAN RECEIVES NORRIS AWARD



Just after we went to press last fall the ACS announced that Professor Howard E. Zimmerman had been selected as the recipient of the 1976 Norris Award in Physical Organic Chemistry. The award, which is sponsored by the Northeastern Section, was conferred at the April meeting of the ACS in New York City.

Professor Zimmerman, who joined the UW Chemistry Department in 1960, is the author of more than 140 research publications with particular emphasis on organic photochemistry. His book on organic quantum mechanics was published last year. He has lectured widely both in the U. S. and abroad, holds a number of editorial positions with chemical journals, and has served as chairman of the IUPAC symposium on photochemistry. As indicated in last year's *Badger Chemist* he holds the Arthur C. Cope Professorship of Chemistry.

Zimmerman was born in New York in 1926; was educated at Yale where he received the BS in 1950, the PhD in 1953 working under Professor James English. After a National Research Council fellowship at Harvard he joined the chemistry faculty of Northwestern in 1954 and remained there until coming to Wisconsin.

The Norris Award honors the memory of James Flack Norris (1871-1940), longtime professor of organic chemistry at MIT.

**James W. Davis**, PhD '42, has been transferred to Goshen, NY to be President of Polak's Frutal Works, a subsidiary of Hercules.

**James D'Ianni**, PhD '38, writes from 860 Sovereign Rd., Akron, OH, but sends no news about his activities.

**Phyllis Merrill Dietz**, BS '48, has been belatedly discovered by Badger Chemist and is one of the authors of Prentice Hall's *Chemistry: Experimental Foundations*, an authorized revision of *Chem Study*. Phyllis is the daughter of the late **Henry B. Merrill**, PhD '21.

**Edward B. Dismukes**, PhD '53, sent his contribution from 2321 Lane Circle, Birmingham, AL, but

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## PROMOTIONS

The Chemistry Department proved again its capacity to live dangerously, as evidenced when the promotions list was approved by UW Regents in June 1976.

The danger was obvious to long-time faculty members in 1970 when the department hired six new assistant professors. Except for John Wright who came in 1972 this was the last hiring of professorial rank personnel since 1970 because of severe budgetary restrictions which made it necessary to continue its activities without replacement of retiring or resigning faculty. By hiring six new faculty members the Chemistry Department exposed itself to the risk of not obtaining tenure for them in 1976 at which time the tenure decision needed to be made.

The department sought to alleviate the need to promote six persons in 1976 by recommending the promotion of Michael Berry and John Schrag in 1975. These promotions were approved at that time, leaving four of the 1970 group for the present year.

It is highly unusual to hire several faculty members in the same year who all meet the standards for ultimate promotion to tenure. This is particularly unusual at the present time when tight budgets cause tenure recommendations to be scrutinized with unusual care at every step. For those unfamiliar with the tenure apparatus in a modern university, the sequence of steps is as follows: recommendation by the candidate's division, recommendation by the senior faculty of the department, approval by the Physical Science Executive Committee of the Graduate School, approval by the Dean of the College of Letters and Science, approval by the Chancellor of the Madison campus, approval by the President, and finally approval by the Board of Regents. In earlier years, some of these steps have been comparatively automatic, with the most serious hurdles being approval by the departmental executive committee made up of associate and full professors, approval by the physical sciences executive committee, and the dean. Under present circumstances all of these steps continue to be critical but the other steps may also result in reversals of recommendations at the lower levels.

The class of '70 proved to be an unusually promising one and the department felt that every mem-

ber of the class possessed sufficient quality to merit making him a permanent member of the UW faculty. As a result there was departmental recommendation of promotions in 1976 for Phillip Certain, Tom Record, Hans Reich and Bassem Shakhshiri. It was not only a great relief but a feeling of satisfaction in the judgment of the department that all four recommendations were approved this year after the two earlier recommendations of Berry and Schrag had been approved in 1975.

Sketches with pictures of the class of 1970 were published in *Badger Chemist* No. 18 in June 1971.

## This 'n' That . . .

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with no news of his activities.

**Thomas J. Dooley** reports a change of address to 975 Teaneck Rd., Teaneck, NJ.

**Walter M. Douglas**, PhD '70, who is at Universal Oil Products in Des Plaines visited the department last year to present a seminar.

**Walter H. Dreger**, BS '63, worked for Pittsburgh Plate Glass Co., while also studying chemistry and law at U of Akron. In 1965 he joined Syntex Corp. in Palo Alto, CA where he serves as a Patent Agent, specializing in foreign patent practice.

**David England**, PhD '43, sends no news from his address at 1601 Shipley Rd., Wilmington, DE.

**William Evans**, BS '69, is now on the faculty of the University of Chicago.

**Gilbert Faust**, BS '34, has had a lecture hall named in his honor at UW-Stevens Point. Gilbert has completed 40 years of association with the institution and presently serves as Registrar. At the dedication ceremony Gilbert was presented with a small bronze figure prepared by art professor Richard Schneider portraying Faust holding a laboratory tool symbolizing his involvement in chemistry, while standing nearby is his tiny table with a clock symbolizing the timetable prepared each semester in his duties as Registrar. Gilbert reminisces in a recent letter about his work with Professor Meloche on the primitive polarograph.

**Stephen V. Filseth**, PhD '62, a faculty member at York University in Toronto, is spending a sabbatical year at Universität Bielefeld, West Germany.

**Sallie A. Fisher**, PhD '47, sent

Professor Schuette a copy of ASTM Standardization News at commencement time last year. The issue features an interview with Sallie who is First Vice-Chairman, Puricons, Inc. A cover inscription to Professor Schuette reads, "In affectionate remembrance that the road began over thirty years ago on a Saturday morning in Chemistry 113." Sallie has been active in the ASTM and in her company with water chemistry problems.

**George M. Fleck**, PhD '61, spent the sabbatical year, 1974-75, in Paris where he pursued archival work on the papers of Marcelin Berthelot, pioneer worker on chemical equilibria in connection with a projected book on history of chemical kinetics. George has been on the faculty of Smith College since completing his doctorate.

**Edward P. Fody**, MS '71, completed his MD at Vanderbilt in June '75 and is currently resident in pathology at the Vanderbilt Hospital in Nashville. He is married to **Nancy Keipe**, BS '72, whom he met while both were students in Prof. Gaines lab. Mrs. Fody is a clinical chemist in the department of endocrinology at Vanderbilt.

**G. L. Fortney**, PhM '36, recently sent a generous contribution from 119 Marshall Dr., Louisville, KY, but included no news of his activities.

**Rolland G. Frakes**, BS '51, of 3989 Grand Haven Rd., Muskegon, MI sent no news about his activities.

**Sidney J. French**, PhD '28, reports that he tried to resign from the ACS after retiring from the Deanship at South Florida U in 1964, but was made Emeritus member, without dues. He recently received his 50 year pin from the ACS and comments, "Pretty nice bunch, I'd say."

**Alvin Friske**, PhD '54, enclosed a copy of Nalco's Annual Report in the hope that it might have interest for new UW graduates. Al is Vice President for Research and Development.

**F. W. Froben**, Postdoc '69-70, is now on the faculty of the Free University of Berlin. He is co-chairman of a symposium on Matrix Isolation Analysis sponsored by the German university and to be held in June 1977 in Berlin. He visited the U.S. last January to attend the 12th International Free Radicals Conference at Laguna Beach and visited laboratories working in the field of matrix isolation.

(Continued on page 8, col. 1)

## This 'n' That . . .

(Continued from page 7)

**Albert J. Fry**, PhD '64, is now associate professor at Wesleyan University, Middletown, CT.

**H. M. Gaarder**, BS '16, sends his contribution from 1641 Interlachen Rd., Apt. 263-H, Seal Beach, CA.

**Lucien Gagneron**, MS '45 and **Bernhardine Poch Gagneron**, BA '45, send a long Christmas letter to Dr. Schuette. They write, "Your busy teaching schedule did not stop you from providing students with your much needed warmth." Lucien was recently presented with a silver cup bearing the inscription, "For Excellence" by his employer, Archer-Daniels-Midland.

**Patrick K. Gallagher**, PhD '60, recently received the 1976 Mettler Award in thermal analysis. The award is given by the Mettler Instrument Corporation and includes a citation and \$1,000 honorarium. Pat is with Bell Laboratories, Murray Hill, NJ. He has been active in the preparation and characterization of reactive oxides. Among his accomplishments is the stabilization of BaTiO<sub>3</sub> for capacitors. He has published extensively on thermal analysis, optical and Mössbauer spectroscopy, and inorganic synthesis.

**John I. Gelder**, MS '71, received his PhD from the University of Arizona in 1975 and is now Assistant Professor of Chemistry in the Chicago Circle campus of the University of Illinois.

**Harold H. Geller**, BS '39, writes from Glendale, WI, but sends no news.

**J. Calvin Giddings**, Res Assoc '55-56, received two columns in CEN for Dec. 15, '75 as a result of his kayak expedition through the deep Andean canyons of the Apurimac River in Peru. Cal, with four companions, was the first to navigate and explore this section of the river which is a source of the Amazon. Cal is a faculty member at the University of Vermont.

**Philippa G. Gilchrist**, PhD '31, sent a generous contribution from Arcadia, Courtland, AL, but included no news about her present activities.

**Louis Glasgow**, PhD '70, is with the DuPont Experimental Station in Wilmington where he is a member of the group evaluating the effects of fluorocarbons on the ozone layer of the stratosphere.

**Howard J. Glenn**, PhD '48, is on the biomedical faculty of the University of Texas.

**Milton D. Glick**, PhD '65, sends

no news from 1342 Joliet Pl., Detroit, MI.

**R. U. Gooding**, PhD '31, is Professor Emeritus of Chemistry from Illinois State U at Normal.

**Howard L. Gottlieb**, BS '40 (PhD Biochem '50) teaches at Triton and Oakton Colleges in northern Illinois. His son Mark, is finishing his master's in sociology at Wisconsin this summer and son John, who has spent a year at Wisconsin is transferring to UCLA for further work.

**Harold Gram**, PhB '31, applies his knowledge of chemistry as learned at the UW and then with the Newport Chemical Co. in the business of dyeing furs. His present address is 235 N. Birch, Waterman, IL.

**Frederick M. Granberg**, BS '39, reports from 720 Chateaugay Rd., Knoxville, TN, but provides no news about his activities.

**Robert Greco**, MS '73, is now at the Laboratory of Research on Polymer Technology and Rheology in Naples, Italy.

**Daniel Grzegarczyk**, BS '54, is coauthor of *Handbook of Plastics in Electronics*, published by Reston.

**Frank Gunseor**, BS '72, writes, "Received my first BC newsletter and cannot tell how great it was to read about happenings at UW." Frank worked for the Mosinee Paper Corporation after graduation, but moved west in 1974 and is now Chemical Project Manager with Potlatch Corp. in Lewiston, ID.

**James L. Hall**, PhD '39, with his wife and two of his sons, visited **Ambrose Nichols, Jr.** recently in California. Jim has just retired from his faculty position at U of West Virginia.

**Paul D. Hanson**, BS '68, spent six years with IBM in East Fishkill, NY before deciding to pursue a career as a Lutheran minister. He is now studying at Luther Theological Seminary in St. Paul.

**Theodore Haupert**, PhD '69, is with the Department of Chemistry at California State U, Sacramento.

**John H. Heise**, BS '41, continues his activities of many years with the **Robert A. Johnston Co.** in Milwaukee.

**Armin W. Helz**, BS '30, retired from the U.S. Geological Survey several years ago after many years in analytical spectroscopy. He has moved back to Wisconsin where his address is PO Box 60, Delafield.

**Robert B. Hendrickson**, BS '49, reports a new address at 5509 Milwaukee St., McFarland, WI. He was formerly in Rochester, NY, but did not report on his activities

there.

**Ernest Hesse**, BA '32, is now retired from his teaching position at Multnomah College in Portland, OR and has been doing some traveling along the west coast where he reports pleasant visits with former students. It will be recalled that Ernie served as instructor in the UW Chemistry Department during the World War II years and the years of the enrollment bulge immediately following. His home base is 703 SW 16th St., Portland, OR.

**Takeru Higuchi**, PhD '43, is Regent Distinguished Professor of Chemistry and Pharmaceutical Chemistry at University of Kansas and is also founder of a pharmaceutical firm, Interx. He was in Madison last March for a seminar in the School of Pharmacy where he held a professorship before going to Kansas. In autumn of 1975 he received the Midwest Award sponsored by the Edward Mallinckrodt Jr. Foundation and administered by the St. Louis Section. The \$1,000 Award was in recognition of his distinguished contributions to chemistry in pharmaceutical research and education.

**Steven Hildebrandt**, PhD '76, is starting postdoctoral work with Professor Yu in polymer chemistry. Steve is the third person in Professor Gaines' research group to marry a boronhydrides research technician.

**Ralph Hill**, PhD '38, reported plans last fall for a search for a retirement home in Arizona or Southern California in order to avoid the more rugged climate of Hayesville, NC.

**Ralph Hirschmann**, PhD '50, is still with the West Point laboratories of Merck Sharp & Dohme where he is Executive Director of Medicinal Chemistry.

**Harrison Holmes**, PhD '34, has been participating in a feasibility study for a Chemical Science Center. The study was conceived by the Delaware Section of ACS and funded by NSF. "The objective of the proposed Center would be to improve public understanding of chemistry in its scope, its methods, its contributions to and its responsibilities for the general welfare." The Center would provide a permanent public exhibition resembling in format that of the Franklin Institute Museum. It was concluded that such a Center could attract a half million visitors per year provided it were located near a large population center, that its exhibits are lively and informative,

(Continued on page 11, col. 1)

## In Memoriam

**Norman L. Anderson**, BS '38, MS '39. His death was reported in *The Hexagon* of Alpha Chi Sigma.

**Paul Askins** died on September 7, 1975. He will be remembered by many recent alumni as the owner of "Paul's Books" which served as a place for browsing for used books during the past two decades. Paul was a graduate of Westminster College, Fulton, Missouri before serving with the Navy in World War II. He came to Madison in 1950 and was associated with the University Coop as their book manager. In 1954 he opened his own store in a cubby-hole across the street. Expansion of his business resulted in several moves until he opened at the present site on 670 State Street. His bookstore was a magnet for many UW students and more than one graduate was taken to task by a long suffering wife who questioned the need for the most recent purchases. Paul is survived by his wife, two daughters and two sons. Son Paul has served as coxswain on the varsity crew during the past two years. Mrs. Askins, together with longtime employees, is continuing operation of the bookstore.

**Harold C. Bradley**, longtime Professor of Physiological Chemistry, died at age 97 in Berkeley, California. He came here in 1906 as one of the first three faculty members of the newly founded Medical School and served on the faculty until reaching emeritus status in 1948. He was an organizer of the Hoofer's Club and a founder of the Blackhawk Ski Club.

**LaVerne E. Clifcorn**, PhD '34, died on August 12, 1976 at Arlington Heights, Illinois. He spent many years as a food scientist with the U. S. Department of Health, Education, and Welfare in the Chicago area. In 1954-55 he was president of the Institute of Food Technologists.

**Joseph R. Dillinger**, Professor of Physics at the UW, died unexpectedly on November 16, 1975. He took his PhD in physics at Wisconsin in 1947 and was actively associated with the elementary physics program, besides pursuing low temperature research with liquid helium. His research materials and records were almost entirely destroyed when Sterling Hall was

bombed in August 1970.

**Henry J. Flikkie**, BS '22, died December 26, 1975 in Janesville where he had been living since retirement from the B. F. Goodrich Co. in Akron.

**Edwin O. Groskopf**, BS '25, died in Dunedin, Florida on January 29, 1976.

**Edwin Albert Hentzen**, BS '40, according to *The Hexagon* of summer 1976.

**Harris D. Hineline**, BS '73, was instantly killed in an automobile accident October 2, 1973 in Mt. Vernon, New York. Before retirement he had been a patent attorney with Union Carbide, Standard Oil of New Jersey, Borden Co., and General Aniline, and was the author of a book, *Forms for Patent and Trade Mark Practice*, published in 1951.

*The Hexagon* of Alpha Chi Sigma reported the death of **Angus J. Johnston**, BS '13. According to alumni records his death occurred on November 13, 1974.

The autumn 1975 issue of *The Hexagon* reported the death of **Ralph B. Mason**, PhD '25.

**Justin M. Obi**, MS '65, who taught at UW in Oshkosh prior to joining the Peace Corps died in Africa several years ago.

**Mary L. Petermann**, PhD '39, died on December 13, 1975 in Philadelphia where she had been associated with the Sloan-Kettering Institute for Cancer Research. During the war years she was associated with Professor Williams' group in research on the constituents of blood plasma. In 1960 she received the ACS Garvan Medal for pioneering research in cellular chemistry.

**H. A. Holden (Gus) Pray**, PhD '25, died January 25, 1976 in Columbus, Ohio. He retired in 1963 as assistant technical director at the Battelle Institute where he had been an associate for 29 years. His research dealt with electrochemical technologies including electroplating and electropolishing techniques. Before joining Battelle in 1934, he was professor of chemistry at U of West Virginia. This death was reported by Marion Veazey.

The last *Badger Chemist* addressed to **George J. Ritter**, PhD '20, was returned marked "deceased." We understand that his

death occurred October 27, 1975.

**John "Snowball" Riley**, 73, died on October 11, 1975 at the Madison Convalescent Center. "Snowball" will be remembered by many Badger Chemists as a State Street fixture for over forty years where he washed windows for merchants along the street. He was born in St. Louis in 1902 and appeared in Madison early in the 30s. He was a gentle soul who is remembered with affection by those who knew him.

**Dorothy Chynoweth Schroeder**, PhD '49, died July 26, 1975 in Greensboro, NC where she was a research associate at the university.

*The Hexagon* for summer '76 reports the death of **Curtis Franklin Sheley, Jr.**, BS '57, MS '60.



**Edward L. Tatum**, MS '32 (PhD Bio '34), died Nov. 5, 1975 in New York City. He was a faculty member at Rockefeller University. Dr. Tatum shared the Nobel Prize for Medicine and Physiology in 1958 with Drs. George W. Beadle and Joshua Lederberg for his work on the biochemistry and genetics of microorganisms. Tatum was the son of Professor A. L. Tatum, longtime member of the Pharmacology faculty at UW Medical School.

**Carl Thiele**, BS '23, died in Green Bay, WI on December 29, 1975.



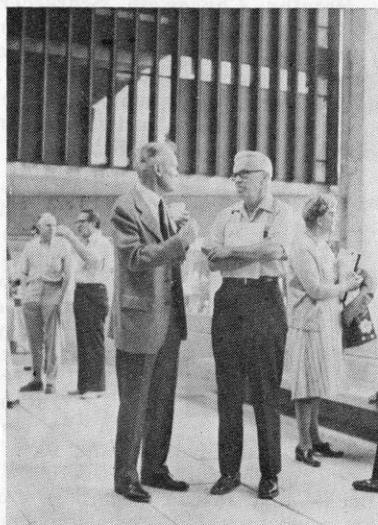
**Vanderveer Voorhees**, PhD '24, died on June 2, 1975 while vacationing in England. He was associated with Standard Oil of Indiana following his graduation

from Wisconsin where he worked on the development of synthetic motor oils while studying to become a patent attorney. He moved to Los Altos Hills, California in 1950 to become a consultant. He was active in the organization of the Bay Area chapter of the Institute of Chemists.

## MADISON HOSTS CHEMICAL EDUCATORS

The Fourth Biennial Conference on Chemical Education was held on the UW campus on August 8-12, 1976. It attracted over 400 participants, including numerous Badger Chemists. The sessions were all held in the Humanities Building with guests being housed in Chadbourne Hall across the street.

Theme of the conference was "Participant-Paced Programming." In addition to more than 70 contributed papers the conference provided a mix of invited papers featuring a number of subjects. No



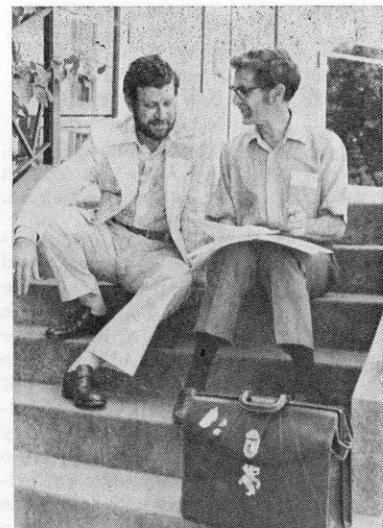
Emeritus Professor J. W. Williams and visitor James L. Hall, PhD '39, (now at Morgantown, WV).

sessions overlapped so it was possible for participants to attend all meetings, or do their own thing if they preferred. Each day's session featured a catalytic address. W. James Papham of UCLA discussed "Consequence-Oriented Instruction" at the opening session. Frank S. Rowland of U of California-Irvine opened Monday's session with "What goes up stays up," a discussion of his work on the effect of freons on the ozone layer of the stratosphere. Kent R. Wilson of U Cal-Santa Barbara opened the next day with "The Chemistry Machine," a treatment of computers and what they can do for chemical education. On Wednesday W. L. Jorgensen of Purdue treated "General synthetic strategies and their application to computer-assisted synthetic analysis." The conference closed Thursday noon after an address from

Gilbert P. Haight, U of Illinois and presently Chairman of the Division of Chemical Education; his title "Quo Vadis Chemical Education?"

Wednesday morning was devoted to a colloquium on "The uses of history of chemistry in teaching chemistry," organized by Leonard W. Fine of Housatonic Community College, Bridgeport, Conn. Aaron Ihde of the UW opened the meeting with remarks on "Chemistry is a human enterprise." Other participants included Stephen Brush (U of Maryland), F. L. Holmes (U of Western Ontario), Stanley Goldberg (Hampshire College), Henry A. Bent (North Carolina State U-Raleigh). Prepared commentary was provided by Jean-Claude Guedon, (PhD hist sci '74) of U of Montreal; R. P. De Sieno of Westminster College in PA; R. Burton Ramsay (UW postdoc '69) of Western Michigan U; and A. T. Schwartz of Macalester College, Minneapolis.

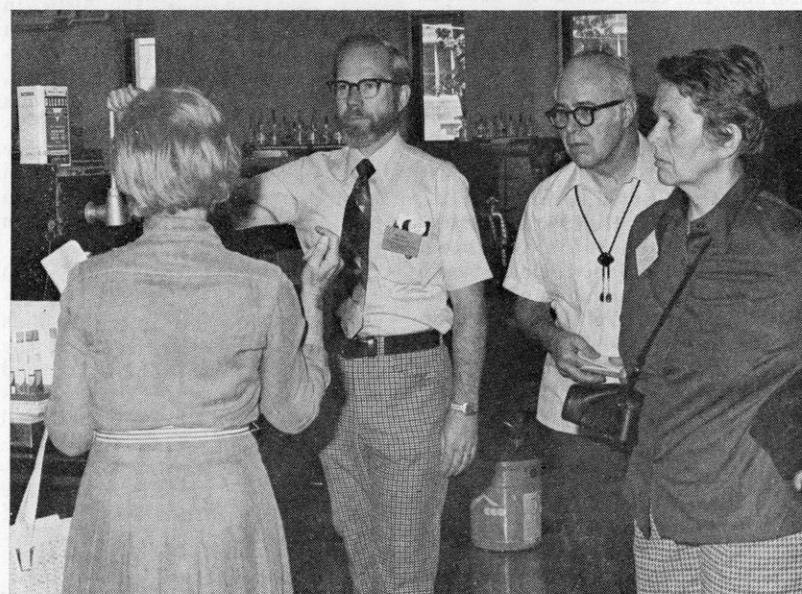
Afternoons were left free of formal sessions. The Chemistry Department held an open house for those who wished to inspect facilities and visit faculty members on Monday when guided tours of the Biotron and the Forest Products Lab were also available. Tuesday and Wednesday afternoons featured exhibit sessions at the Wisconsin Center where many booths



Bassam Shakhashiri and Edwin M. Larsen plotting strategy on the steps of the Humanities Building.

featured methods and materials for chemical education. On Tuesday evening there was a picnic on Picnic Point.

Bassam Shakhashiri was general chairman of the conference committee with Robert West, immediate past chairman of the division serving as co-chairman for funding. The local arrangements committee was chaired by Edwin M. Larsen with assistance from departmental staff members Glen E. Dirreen, Robert R. Lavine, and Paul F. Schatz, and from David B. Shaw of the Madison Area Technical College.



Visitors at the Departmental Open House hear the freshman labs described by Glen Dirreen, PhD '72, who is the departmental Director of Freshman Laboratories. Peggy Hurst, PhD '56, of Bowling Green State U, listens at the right.

## This 'n' That . . .

(Continued from page 8)

and that its operation is subsidized by a broad segment of the chemical industry. A survey is now being made of sources of financial support.

**Daniel J. Hoy**, BS '62, is Chairman of the Chemistry Department at Monmouth College.

**Calvin O. Huber**, PhD '57, served as co-chairman of the 5th Annual Meeting of UW Chemical Faculties which was held at UW-Milwaukee last spring. Calvin is a faculty member at UW-Milwaukee.

**Terry V. Iorns**, PhD '70, has been with Phillips Petroleum at their Research Center at Bartlesville, OK since 1972.

**Paul R. Johnson**, BA '34, who also spent 2 years in the Department as a postdoc with Professor McElvain in '38-'40, retired from his position as research division head in the Elastomer Chemicals Department at DuPont in 1974 and now operates as a research consultant in Wilmington, DE.

**Richard Juday**, PhD '48, writes that he read the article on limnology in last year's *Badger Chemist* with interest. He reports doing water quality work at U of Montana and finds that "modern analytical equipment gives a lot more data with a lot less effort" than was true in his father's day. He sends regards to emeritus professors Holt, Meloche, and Schuette.

**J. G. Kane**, PhD '43, writes that the cover picture of the Chemistry Building brought back memories of daily visits to it in 1941-43 when he represented the first of a continuing group of graduate students from India. He was pleased to hear about Professor Schuette's 90th birthday and inquired about addresses of fellow graduate students from the period. Dr. Kane was Director of the Department of Chemical Technology at University of Bombay before retirement in 1971. He now continues to work as a consultant in the field of fatty oils.

**Fred Kawahara**, PhD '49, reports from 2530-8 Mile Rd., Cincinnati, OH, without news of his activities.

**John A. Kennan**, BA '30, (PhD Biochem '34) is now retired from the presidency of Speidel, but is consulting part-time. He now lives at High Point, Fort Madison, IA.

**Robert A. Keller**, BS '51, MD '58, is in family practice in Sheboygan, WI. He says, "Dr. Schuette was my first faculty advisor way

back in '48 and a 'Hello' for him."

**James Kleppinger**, PhD '75, has a postdoctoral position with Alan MacDiarmid, PhD '53, at the University of Pennsylvania.

**Elmer Klug**, BS '31, MS '32, now lives at 2970 San Juan Trail, Brookfield, WI. Elmer worked briefly as a chemist for the Newport Dye Co. in South Milwaukee before becoming associated with the family funeral livery from which he has now retired.

**William A. Koerner**, PhD '49, and **Anita Ziegenhagen**, MS '46, write that they continue to enjoy *Badger Chemist*. Bill is with Monsanto at St. Louis.

**Stanley T. Kowiewicz**, PhD '73, is with the Los Alamos Scientific Laboratory. He reports that their altitude is nearly 1½ miles higher than that of Madison, leading to difficulties in adjusting to a barometric pressure of 580 mm. He is Section Leader of the Plutonium and Uranium Analysis Section.

**David E. Kranbuehl**, PhD '69, is Associate Professor of Chemistry at William and Mary.

**Ludwig C. Krchma**, BS '31, sends his contribution from PO Box 7101, Kansas City, MO, but with no news of his activities.

**Walter Kutz**, PhD '30, writes that he recently had a visit from classmate Karl Folkers whose son lives nearby. He reports that they are settled in their retirement and are happy with the area. His address is 110 Valley Lakes Drive, Santa Rosa, CA.

**C. Marvin Lang**, MS '64, (PhD, Wyoming, '70) is on leave from UW-Stevens Point in order to hold the W. B. King Visiting Professorship in General Chemistry at Iowa State.

**Gerrit Levey**, PhD '50, is Chairman of the Chemistry Department at Berea College in Kentucky.

**Richard Livesay**, BS '47, is Research Specialist in the New Business Ventures Division of 3M in St. Paul.

**John Lofstrom**, PhD '54, made a visit to the Department on December 8.

**John Lott**, PhD '73, is at DuPont's Photoproducts Department in Parlin, NJ.

**Roger Lueck**, MS '21, reports that Newsletter 22 was most enjoyable reading. "I even set *Time* aside in its favor." He reports an urge to visit Madison to inspect the new quarters of the Chemistry Department across the street from the building where he spent three enjoyable and profitable years in graduate work under Professors

Daniels and Mathews.

**Blair MacQueen**, MS '23, planned to spend the last half of the winter in Scottsdale where he hoped to see Professor Meloche and Patti. A later letter reported a trip to the East which included a visit with Marion and Daisy Veazey and other friends of graduate school days. He reported talking by phone with Sam Lenher about a Wall Street Journal article on a new chemical developed for Dutch Elm disease. Blair reports using the chemical on their 100-year-old elm, the only one left, with apparent success.

**Howard Malmstadt**, PhD '50, has received the ACS Award in Analytical Chemistry for his work in instrumentation at the University of Illinois.

**Eldor A. Marten**, PhD '28, reported that Newsletter 22 was the first he had received in many years and was happy to be returned to the mailing list. He was pleased to read about Professors Meloche and Schuette, but saddened to learn of the death of Professor McElvain. After teaching biochemistry and bacteriology for 7 years he joined the Nestle Co. as food chemist and bacteriologist, remaining with the company 22 years before retirement. He lives at 505 W. 9th St., Marysville, OH where he enjoys fishing, gardening and African violets. He reports with pleasure the 25th reunion of his class (BS '25).

**Jeane Laing McCormock**, BS '32, reports delight in the *Badger Chemist* even though her chemistry has long been restricted to the kitchen variety.

**John S. Meek**, BA '41, is with the chemistry department at the U of Colorado. The cover picture on last year's *Badger Chemist* raised a letter in which he speculates that he must have been born in Madison on the site of the present chemistry building.

**Keith Meyer**, PhD '76, and **Phyllis Anderson Meyer**, MS '69, are now in Fulton, MO where Keith is on the faculty of Westminster College.

**Pamela Ann Meyer**, BS '73, sends no news about herself from 1427B Indiana Ave., Sheboygan, WI.

**Richard T. Meyer**, BS '56, (PhD, Berkeley, '60) is on leave of absence from Sandia Laboratories in Albuquerque to serve as Asst. Staff Director of the Western Governor's Regional Energy Policy Office in Denver. The office, develops policy for Arizona, New Mexico, Utah,

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## This 'n' That . . .

(Continued from page 11)

Nevada, Colorado, Wyoming, Montana, the Dakotas, and Nebraska. Richard, while serving as President of the New Mexico Academy of Science in 1974, was appointed by Governor King to the Governor's Energy Task Force. While at Sandia and as an Academy officer he had been deeply involved in energy projects.

**George A. Miller**, BS '50 (PhD, Michigan, '55) was a recent departmental visitor. He has been on the faculty of Georgia Tech since 1958.

**Richard J. Milligan**, BS '63, MD '67, is practicing medicine in Casper, WY.

**Nels Minne**, PhD '32, continues his support of the *Badger Chemist*. He is President Emeritus of Winona State College where he continues to reside.

**Yutaka Mitsuda**, PhD '73, writes "this small newsletter is invaluable for foreign alumni, because we seldom have contact with UW." Yutaka is Chief Chemist in the synthetic rubber division of Denki Kagaku Kogyo in Machida City, Tokyo.

**Therald Moeller**, PhD '38, is resuming full-time activities at Arizona State U in Tempe, the school sometimes known as U. of Illinois-Arizona.

**Stanford Moore**, PhD '38, was Inaugural Lecturer of the Carl Georgi-Walter Miltitzer Lecture-ship in Chemistry and Life Sciences at Nebraska Wesleyan University on April 23, 1976. It will be recalled that Dr. Moore received the Nobel Prize in Chemistry in 1972 and more recently received an Honorary Degree from the UW. The scientists honored by the lectureship also had UW connections. **Carl Georgi**, BS '30, (PhD Bacty '34) came to the University of Nebraska in 1935 as instructor in bacteriology. **Walter Miltitzer** took his BS '32, PhD '36, at the UW in biochemistry where Professor Karl Paul Link was his research advisor. He came to the University of Nebraska in 1936 where he introduced modern biochemistry into the curriculum of the University. He later served as Dean of the College of Arts and Science.

**Donald H. Morman**, MS '57, continues with the Shell Development Co., and reports recently having had the pleasure of moving into a large new research center (West-hollow Research Center) on the western edge of Houston.



**Ambrose Nichols**, PhD '39, retired at the end of the past semester after 15 years at California State College, Sonoma, which followed 22 years at San Diego State. He writes, "I think

often of the years from '36-39 when I lived in the Chemistry Department at Madison. A great many good friends date from those years, and, of course, I am most grateful that my experience there opened the way to a most rewarding lifetime of work. My wife, Barbara, shared my last year at Madison, and she also has a warm spot in her heart for the University and the Department." They are planning a fair amount of travel and anticipate visiting Madison.

**Mary J. Oestmann**, PhD '54, was presented with Nuclear Regulatory Commission's Distinguished Woman Award at a recent ceremony in observance of International Women's Year. Mary is Employment Project Manager with the NRC office in Chicago. The award was in recognition of her outstanding contributions to the environmental efforts of the NRC in the licensing of nuclear power plants. She took her bachelor's degree at Denison University where she received an Honorary Sc degree in May 1975. She joined the former AEC in 1971.

The family of **Frank Olson**, BA '31, whose unfortunate suicide following CIA administration of LSD in 1953 was reported in last year's *Badger Chemist*, has been voted a compensation of \$1,250,000 by the U.S. Senate.

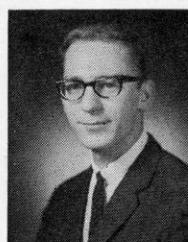
**Warren Z. Olson**, BS '30, sent his contribution from 1733 Park St., Middleton, WI.

**Fred C. Oppen**, BS '32, PhD '36, has retired from his position with the Kimberly Clark Corp. in Neenah and has moved to Door County for his retirement. He lives at Rt. 1, Sturgeon Bay. In a letter to Professor Schuette he inquires about a valid address for his classmate **Robert Austin** who came from Utah and was a graduate student with Professor Krauskopf or Walton. Unfortunately, we no longer have a valid address for Bob.

**Dean L. Owens**, BS '42, is Western District Manager of the Fluid

(Continued on page 13, col. 1)

## TROST TO RECEIVE ACS AWARD IN PURE CHEMISTRY



The American Chemical Society announced at the San Francisco meeting that Professor Barry M. Trost is the 1977 recipient of the ACS Award in Pure

Chemistry sponsored by the Alpha Chi Sigma Fraternity. Nominees must not have passed their 36th birthday and must have accomplished research of unusual individual merit on the threshold of their careers. Special consideration is given to independence of thought and the originality shown in their research. His research contributions cited in the award include proof of structure and total synthesis of Cecropia moth juvenile hormone, the introduction of a spirocyclobutanone ring at the site of a carbonyl to introduce chiral quaternary centers of predetermined stereochemistry, use of allyl palladium complexes for carbon-carbon bond formation, and the utility of sulfur chemistry in adjusting the oxidation level at carbon. The award will be presented to Professor Trost at the ACS national meeting in New Orleans in March of 1977.

Professor Trost received his bachelor's degree at the University of Pennsylvania in 1962. In 1965 he was awarded the Ph.D. degree from M.I.T. where his thesis advisor was Prof. H. O. House. He joined the faculty at UW-Madison as an Assistant Professor in 1965; he was promoted to Associate Professor in 1968 and one year later, at age 28, to full Professor. His awards include an Alfred P. Sloan Foundation Fellowship, a Camille-Dreyfus Teacher-Scholar Grant and a Romnes Faculty Fellowship. Barry is author of two books and more than 125 research publications and has lectured widely in the United States and abroad. He serves in editorial capacities for several research journals and on advisory panels for Federal agencies, such as NSF and NIH. He has also presented the ACS Short Course on "Modern Synthetic Methods."

## This 'n' That . . .

(Continued from page 12)

Process Chemicals Department with Rohm & Haas in Los Angeles.

**Fredus N. Peters, Jr.**, PhD '25, and his wife Helen continue their activities as teacher's aides in the Sarasota schools. They consider this the highlight of their week. Pete writes that he occasionally gives a talk before local groups on food additives and was recently asked to talk about furfural, the subject of his PhD thesis with Professor Richard Fischer and the basis of a long career with Quaker Oats.

**Deanna Peterson**, BS '74, has been active in Salt Lake City in the development of analytical techniques for the determination of minute quantities of trace metals in natural water systems. She was recently married to Ray Rishel.

**Russell W. Peterson**, BS '38, PhD '42, reports that he is enjoying his assignment as Chairman of the President's Council on Environmental Quality. He writes, "The basic problems plaguing us today were caused by decisions and events years ago. We need to focus today on potential long range problems so we can avoid or minimize their causes." Russ was quoted in the Dec. 15, 1975 CEN as pointing out that the Bureau of Labor Statistics estimates that each \$1 billion spent for pollution control translates into about 67,000 jobs. This statement was made in rebuttal to arguments that pollution control must be postponed because it creates unemployment.

**Marden S. Pierson**, BA '35, reports that as a student he lived just a block down Lathrop St. from Dr. Mathews with whom he frequently walked to the campus in the morning, but never had the nerve to tell him that "it was his bobsled that tore up the 18th green at Blackhawk." Since completing his senior thesis with **Dr. Loren Hurd**, Marden was with Carnegie-Illinois Steel Co. as a metallurgist until his ROTC connection brought him into active duty during World War II where he fought in the S. Pacific. He remained with the Navy after the war, ultimately being transferred to the Polaris Program where he spent 7 years on the Launching System followed by 3 more with the Missile System. He has recently retired and lives at 13725 Calle Tacuba Dr., Saratoga, CA. He writes, "we would be delighted to hear from and have

## DEPARTMENTAL HISTORY BEING WRITTEN

For a number of years there have been suggestions that a history of the Chemistry Department be prepared. The late Farrington Daniels had a deep interest in such an objective, as did the late J. Howard Mathews. Professor H. A. Schuette undertook gathering of materials for such a history after retirement but other obligations and his subsequent decline in health prevented him from getting on with the project.

The objective has now been revived, with assistance from Professor S. M. McElvain's bequest to the department, announced in last year's *Badger Chemist*. The writing will be undertaken by Professor Aaron Ihde who first encountered the department as a Chem Course freshman in 1927 and who, despite several intervals in industry and other universities, has had a half century of contact with the department as an undergrad, grad student, and faculty member.

It is hoped to develop the origins and development of chemistry at the University of Wisconsin during its first century, giving attention to changing characteristics of the science during that period, as well as recounting the growth and activities of the chemistry department. It is hoped that it will also be possible to gain an understanding of factors which were involved in the growth of the department to distinction and compare that growth with that of other leading departments in the country.

During the first year of the en-

deavor, Ihde has been assisted by Alan Rocke, PhD '75 (history of science), who has made a systematic search of archival materials held by the university from 1848 to 1930. This search has included examination of regent records, records of presidents and deans, departmental correspondence and reports, news accounts, and various miscellaneous materials. Future plans include interviews with persons who had a longtime association with the department.

It is hoped that the history, once written, can be published in the form of a book with illustrations and appendices. The finished volume will be not only a chronicle of the growth of a discipline in a specific institution, but also an interpretation of the forces interacting in such growth.

\* \* \*

The author welcomes comments from friends of the department, including personal reactions, anecdotes, bits of information, etc. Pictures would be particularly welcome, particularly laboratory shots, pictures of special events such as picnics, open houses, exhibits, student groups, faculty members, etc. Informal snapshots are particularly useful, but only if reasonably full identification can be supplied, including names of most persons in the picture, approximate date, place, identification of apparatus, etc. If you have such pictures available they would be appreciated. If you possess only a single copy, the print can be copied here and the original returned.

Maryland.

**Richard L. Reeves**, PhD '55, writes, but sends no news from Honedey Falls, NY.

**James A. Reid**, BS '30, retired in 1973 after 40 years with Phillips Petroleum as Manager of Research & Development. He and his wife Evelyn are enjoying travel and photography.

**William P. Riemen**, BS '50, PhD '55, has been in the Chemistry Department of University of Guam for the past 4 years. He writes that the university serves all college students through the masters degree for all of Micronesia. Says it is always summer in Guam.

**Robert W. Rosenthal**, PhD '49, is teaching organic chemistry part-time at Florida International U in his retirement. One of his sons

Nancy G. Potts, BS '15, sent her usual contribution from LaGrange, IL, but without any news.

**Gorman L. Quinn**, PhD '51, writes from a Wilmington, DE address, but without news of his activities.

**Douglas D. Radtke**, PhD '66, writes from Stevens Pt., WI, but sends no news about his activities.

**Edward Wilkins Reeve**, PhD '40, is professor of chemistry at U of

(Continued on page 14, col. 1)

## This 'n' That . . .

(Continued from page 13)

completed his bachelor's degree at UW in Madison in 1974 and is now studying optometry. The other son finishes pre-medical work at Michigan next December.

In a Christmas letter to Dr. Schuette, **Don Roth**, PhD '44 and **Marie Mercury Roth**, PhD '52, recount activities during the past year, including the wedding of one of their children, the entrance of another into the mechanical engineering course at UW-Platteville, and the swimming accomplishments of their two youngest daughters. Don, who holds an MD degree from Marquette, just completed a year as President of the Milwaukee Academy of Medicine. In summer of 1975 Don, Marie, and the two younger daughters attended a meeting of the International Society of Nephrology in Florence, Italy. Following the meeting, in a rented Fiat, they traveled extensively in Italy, Switzerland and West Germany.

**Ernest R. Schierz**, PhD '22, is author of the biography of the late Professor Richard Fischer which appears in the recently published *American Chemists and Chemical Engineers*, one of the centennial publications of the ACS. Other Badger Chemist authors of sketches in the book include **Albert B. Costa**, PhD '59; **Aaron Ihde**, BS '31, PhD '41; **Daniel J. Jones**, PhD '69; **David Klein**, PhD '10; **Sheldon J. Kopperl**, PhD '70; **John Parasandola**, PhD '68; **Louis Schmerling**, BS '32; **Charlene Steinberg**, BS '47, MS '48; **Charles H. Trottman**, PhD '72.

**Boyd Schultz**, PhD '50, is involved in nuclear studies with Westinghouse, Bettsville, Ohio.



**Henry M. Shuey**, PhD '49, was the recipient in January of the Hermann Oberth Award for outstanding scientific achievement in the field of aeronautics. The

award, which is presented annually by the Alabama Section of American Institute of Aeronautics and Astronautics, consists of a framed certificate and a one-third scale bronze bust of Professor Oberth. The original was cast by Raymond

## CHAMBERLIN HALL

The building pictured in the upper part of last year's cover photograph and referred to at that time as the Old Chemistry Building has recently been renamed Chamberlin Hall, doing honor to Thomas Crowder Chamberlin who served as President of the University from 1887-1892. Up to this point no building carried the name of Professor Chamberlin, although many generations of Badger Chemists will remember Chamberlin Rock on the hill behind Ag Hall and west of the Observatory. Chamberlin Rock, a huge granite erratic brought in by the glacier was appropriately named for Chamberlin who was professionally a geologist.

During his presidency, Chamberlin was responsible for transforming what had been a state university where almost all emphasis was on teaching, into an institution initiating a graduate program and giving scholarly research a position of importance alongside the teaching function. Chamberlin was responsible for recruiting such faculty members as historian Frederick Jackson Turner and economist Richard T. Ely, for introduction of the seminar method of teaching, and establishing fellowships for graduate work. The University Extension and summer session programs were started during the Chamberlin presidency.

Thomas Chamberlin was born in Illinois and studied science at Beloit College. He was associated with the Wisconsin Geological Survey for several decades and taught at the State Normal School in Whitewater (now UW-Whitewater) before becoming President of the UW. He left the UW presidency

Hass of Munich, Germany. Henry is Director of Technical Liaison for Rohm & Haas Company's Huntsville Defense Contract Office. He has an international reputation in the fields of propellants, explosives, and ballistics. He has been with Rohm and Haas since 1947.

**Ernest F. Silversmith**, PhD '55, is in his 10th year as professor of chemistry at Morgan State U in Baltimore. He and his wife, the former Eva Perlman, have four children. Eva is the daughter of the late Selig Perlman, longtime professor of labor economics at the UW, and the sister of **David Perlman**, BA '41, who recently stepped down from the deanship of the UW Pharmacy School in order to give

after only five years in order to return to geological research at the University of Chicago where, with an astronomy professor, he became widely known for the development of the Moulton-Chamberlin hypothesis regarding origin of the solar system. The hypothesis postulated that the planets and their satellites were pulled out of the sun by the attraction of a passing star.

\* \* \*

Two other buildings were recently dedicated in honor of long-time members of the UW faculty. These buildings are dormitories on the lakeshore beyond the Krons-hage units and have been referred to since their construction as Elm Drive A and Elm Drive C.

Elm Drive A has been renamed Bradley Hall in honor of Harold Cornelius Bradley, professor of physiological chemistry from 1906-1948. Besides his chemical activities Bradley was well-known among Wisconsin students for his lifelong interest in sports and the outdoors. He served on the Athletic Board for many years and was the founder of the Hoofers Club in 1931. He lived in retirement in California for many years where he was active in the Sierra Club and served as its president in 1957. His death is reported in the "In Memoriam" section of this issue of *Badger Chemist*.

Elm Drive C is now known as Scott Goodnight Hall. Goodnight will be remembered to many undergraduate Badger Chemists as a highly moralistic Dean of Men from 1916 until his retirement. Scott Goodnight came to Wisconsin following receipt of his PhD in Germany in 1905.

more time to his research program.

**Martin F. Sloan**, PhD '60, is now manager of development for the Resins Division of Hercules.

**Thor L. Smith**, PhD '48, responds from Los Altos Hills, CA, but without news.

**W. L. Smith**, BS '17, writes from Akron that he has not been involved in chemistry for many years and has been retired for the last 15.

**Harold H. Snyder**, PhD '45, has been with the DuPont Company for 31 years and writes he has enjoyed every minute of it.

**William L. Stebbings**, PhD '72, sent a nice contribution from Stillwater, MN, but without news of his activities.

**Unnsteinn Stefansson**, MS '46, (Continued on page 15, col. 1)

## This 'n' That . . .

(Continued from page 14)

(PhD, Copenhagen, '62) is active in Iceland according to Sallie Fisher who reports having received an invitation to visit the island.

**Lawrence Stein**, PhD '52, writes, "Keep Badger Chemist coming—I enjoy news about the faculty, former students, and Madison." Larry is with Argonne National Laboratory.

**Glenn Svoboda**, BS '52, has been with the Freeman Chemical Corp. in Port Washington, WI since completing his education at UW. He is associated with Steve Freeman and is involved in the production of polymeric materials utilized in industrial coatings, the reinforced plastics industry, and in urethane applications. Glenn reports that several Badger Chemist alumni have become associated with Freeman following the closing of Lakeside Laboratories after sale to Richardson-Merrill. Glenn is Vice President-Research & Development.

**Marjorie Huber Svoboda**, BS '43, MS '47, has taken a research position at University of NC. A year ago she completed her biochemistry PhD at Indiana U Medical School.

**Wilbur Swanson**, Postdoc, is now with Climax Molybdenum Co. in Ann Arbor, MI. He had previously been with the Chemistry Department at University of Georgia.

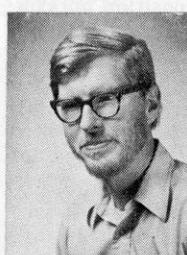
**David R. Tallant**, MS '68, was the recipient of an ACS Division of Analytical Chemistry summer fellowship. He was sponsored by the Society for Analytical Chemists of Pittsburgh.

**Odell Taliaferro**, BS '33, enjoyed a trip to Germany during the past year. Tally sends greetings to his many friends.

**Harold Tarkow**, PhD '39, was the winner of a trip to Japan as the result of his submission of an essay on the importance of the oceans to mankind, a contest sponsored by the Japanese Broadcasting Co. and Japanese International Ocean Expedition. He spent two weeks in Japan and Okinawa as the guest of the sponsoring organizations. Harold has been associated with the U.S. Forest Products Laboratory in Madison for 32 years as a wood specialist and is now Assistant Director for fiber and chemistry research.

**Wesley A. Tarwid**, BS '50, reports that the last issue of *Badger Chemist* jogged some memories. Wes is Research Associate in the Organics Group of the American

## FRANK ALBERT WEINHOLD JOINS TCI



We report one addition to the Chemistry Department faculty this year. He is Frank Albert Weinhold who will teach with the physical chemistry group and carry on investigations in the Theoretical Chemistry Institute. He joined the department as assistant professor this summer, coming from a similar position at Stanford University.

Dr. Weinhold, who was born in 1941 in Scottsbluff, Nebraska, received the BA degree in chemistry (summa cum laude) from University of Colorado in '62 and spent the next year as a Fulbright Scholar at the Universität Freiburg in Germany. He then took up graduate study at Harvard where he received the AM in '64 and the PhD in '67 working in the research group of Professor E. Bright Wilson, Jr. His doctoral dissertation was titled, "Reduced Density Matrices of Atoms and Molecules". During this period he spent the summer of 1966 as Visiting Research Associate at the Quantum Theory Project, University of Florida with Professor Darwin W.

Can Co., Barrington, IL.

**Charles C. Templeton**, PhD '48, is still with Shell Development Co., associated with oil production problems including in-situ processes for oil, shale, coal, and tar sands.

**Raymond H. Ten Pas**, BS '42, MD '49, practices medicine in Palm Springs, CA. He stopped by the department recently when in Madison for a visit at the Medical School.

**Glenn A. Terry**, PhD '51, is with the Nuclear Regulatory Commission; the recently formed Regulatory half of the old AEC.

**Quentin E. Thompson**, PhD '51, writes that his close laboratory neighbors at Monsanto are Ron Morse, PhD '67, and Loren Bannister, PhD '52.

**Stephen W. Tobey**, MS '59, was in Madison in April to present an industrial research seminar for students in the Chemistry Department. His subject was, "A Process Development in the Pharmaceutical Industry." He is Manager for the Pharmaceuticals Group in Organic

Smith. In 1967-68 he was National Science Foundation Postdoctoral Fellow at the Mathematical Institute in Oxford University where he worked in the group of Professor C. A. Coulson. The following year he held a Miller Research Fellowship at Berkeley.

He joined the chemistry faculty of Stanford University in 1969 where he pursued research on quantum mechanical expectation values of molecular properties, hindered rotation and energy levels in organic molecules, and developed a new formulation of thermodynamics. His work on thermodynamics was featured in the March 1976 issue of *Physics Today*.

During the Stanford period he was recipient of a Du Pont Young Faculty Award (1969-1971), and was an Alfred P. Sloan Foundation Fellow in 1970-1972. During the next three years, he held a Camille and Henry Dreyfus Foundation Fellowship and in 1972 was a guest scientist at the Max-Planck Institut für Physik und Astrophysik in Munich, Germany and with the Quantum Chemistry Group at the University of Uppsala, Sweden.

Frank and his wife Mariana have a daughter, Diana 11 and a son, Gregg 7. We are happy to welcome them into the Madison community.

Chemicals at Dow.

**Charles W. Tullock**, PhD '38, reports, "We old timers do so appreciate your efforts." Charles is at U of Illinois.

**Ralph F. Turner**, BS '39, was involved a year ago in the reopening of the investigation of the Robert F. Kennedy assassination. He was the only member of the panel with experience in the role of rifling angle measurements in discriminating between guns. He reports his gratitude to Professor Mathews for the instruction he received from him on handgun studies. Ralph is perhaps the only Badger Chemist to be following in Matty's footsteps. He is a professor in the School of Criminal Justice at Michigan State.

**Carl Turnquist**, PhD '73, reports a new address of 106 Kennedy Lane, Concord, MA. He had previously been in Wilmington, DE.

**Jeffrey Ulman**, PhD '74, is enjoying a productive postdoctoral period with Professor Thomas Fehlner at Notre Dame.

(Continued on page 16, col. 1)

## This 'n' That . . .

(Continued from page 15)

**Frank Urban**, PhD '28, writes with pride of his grandson, now a senior pre-med student in Marquette, who has been spending this summer in cancer research at that university. Frank is retired at 1510 Shannon St., Green Bay, WI.

**Marion Veazey**, PhD '26, has been very busy with a steady sequence of travels. He has been in correspondence in connection with his preparation of a talk on "genius" for the Torch Club, a Group which meets in Hagerstown, MD. He has been interested in the development of WARF out of the Steenbock patents in the 1920s. Marion tells us that Archie Black, who worked with Steenbock on the discovery of irradiation of foods, was a close personal friend who was called Sam by his classmates. Marion reminisced about the 1924 classmates who roomed in or near the University Club. These included Emil Schmidt, Helmuth Schrenk (who was called "Zero" because he fired furnaces), Lloyd Withrow, Frances Sullivan, and Jim Davis, perhaps best known to many Badger Chemists as the longtime glassblower in the Departments of Chemistry and Physics.

**Thomas Waddell**, BS '66, (PhD CA) was a Madison visitor during the Christmas holidays. He is on the faculty at U. of Tennessee-Chattanooga.

**Carol Herrmann Wallace**, PhD '49, writes all of their children are in college now and she is starting a new part-time job at Cuyahoga Community College.

**Philip M. Walters**, PhD '42, reports an address change to 5111 Soledad Primera, Tucson, AZ, but with no news. Since he had been in Wilmington, DE, he must be retiring from one of the chemical laboratories to take up residence in Arizona.

**Charles C. Watson**, PhD '38, received the Benjamin Smith Reynolds Award for teaching excellence in 1975. He has been a member of UW Chemical Engineering faculty for nearly 30 years. The awards consist of a medal and a check for \$1250. The presentation was a feature event of the college's 28th annual Engineers Day. Benjamin Smith Reynolds was at one time a member of the UW Board of Regents and was associated with the founding of the Burgess Battery Co.

Mary Elvira Weeks, MA '14, con-

tinues her faithful support of Badger Chemist, but sends no news about her activities. She is now retired from her position in connection with the Kresge Hooker Library at Wayne State and continues to live in Detroit.

**Donald Wetlaufer**, BS '46 (PhD Biochem '54), has been appointed chairman of the Department of Chemistry of Delaware.

**Earl L. Whitford**, PhD '24, who is retired in Naples, FL still plays golf two or three times a week, but reports that "Jack Nicklaus' crown is safe." He also wets a line for snook, mackerel, red fish and reports he does not neglect Bloody Marys or the juice of the corn when his system needs them.

**Adolph Y. Wilburn**, BS '56, will become director next December of an international scholarly exchange in Washington, D.C., leaving his present position as associate vice president of the University of Wisconsin which he has held since 1973. Wilburn, who holds a master's in chemistry from Marquette and a doctorate in educational planning from Harvard '59, has had a large amount of experience in international educational programs including teaching in Nigeria and Venezuela and administration in Paris. He will be director of the Council for International Exchange of Scholars, the senior Fulbright-Hays scholarship program administered by the American Council on Education. His wife, Mary, is a member of the Madison School Board.

**Bruce Wilcomb**, MS '73, reports he is completing studies toward the doctorate with Professor Richard Bernstein at the University of Texas whom he followed when Professor Bernstein resigned at Wisconsin.

**Bennett Willeford**, PhD '51, reports having been to Northumberland, PA several times to take pictures of the Priestley homestead for a colleague in Scotland. While at Northumberland, he has been attempting to make a rubbing of the Priestley gravestone but so far without real success. He continues to enjoy teaching physical and inorganic at Bucknell U and working with undergraduates on research in organometallic chemistry.

**Robert C. Williams**, PhD '73, is now senior chemist with the 3M Co. After finishing at WI he spent two years on a postdoctoral appointment at UW-Milwaukee during which time he coauthored two

(Continued on page 20, col. 1)

## BADGER CHEMISTS AT ROHM AND HAAS

James D. Burke, director of Recruiting and Placement at Rohm and Haas recently sent to Chairman Richard Fenske a printout of R & H employees with UW Madison degrees. Of 39 UW graduates listed, 23 held degrees from the chemistry department distributed as follows: 8 BS, 3 MS, 16 PhD, including four holders of two degrees. The printout also included eight with degrees in chemical engineering, two in biochemistry, and two in soils chemistry. The chem graduates are: Donald Buehler, BS '68; Martin Bretl, BS '36; David Clemens, PhD '57; David Fordyce, PhD '50; Lawrence Hoffmann, Jr., BS '71; Robert Kelso, BS '39, MS '40; Roland Kippenhan, Jr., BS '67; Gary Kuether, BS '58 (PhD Chem Eng '65); Jerome Levy, PhD '63; Kenneth Martin, PhD '60; Keith S. McCallum, BS '42, PhD '50; Warren Niederhauser, PhD '43; Dean Owens, BS '42; Richard G. Peterson, PhD '65; James L. Rainey, PhD '38; Robert M. Ross, PhD '51; Henry M. Shuey, MS '44, PhD '47; Walter W. Toy, BS '45, MS '46; Wm. L. Van Horne, PhD '40; Wm. R. Wilber, PhD '73; Alvin G. Winger, PhD '51; Robert S. Wood, PhD '67.



Ralph Connor

Rohm and Haas has been a longtime stronghold of Wisconsin chemists. Two earlier Badgers who rose to top level positions are Loren Hurd, PhD '29 and

Ralph Connor, PhD '32. Hurd, who went to R & H in 1937 from an instructorship in the analytical division, became assistant director of research in 1945 and assistant export manager in 1948. He later left the company and was president of Metals Disintegrating Co., Elizabeth, NJ at the time of his accidental death during a fishing trip in 1957. Connor taught briefly at Cornell before joining the faculty at Penn where he rose to full professor in 1943. He joined Rohm & Haas in 1945 as assistant director of research, following extensive work with the NDRC and Navy Ordnance during World War II. He became vice president for research in 1948 and Chairman of the board in 1960.

## Peterson leaves CEQ to head New Directions

Members of the Wisconsin Section of ACS received advance notice, on September 20, of the resignation of **Russell Peterson**, PhD '42, as chairman of the President's Council on Environmental Quality in order to become director of New Directions. Peterson, who left his research position with du Pont in 1968 to run for governor of Delaware, attracted the attention of the public for his success in bringing about state enactment of legislation for protection of the Delaware coastline from encroachment of industrial and commercial interests. He later went on to his present position as head of CEQ, where he has been outspoken in his efforts to assure that our children and grandchildren have an environment to enjoy (see This 'n' That).

On his return to Madison he addressed a packed chemistry auditorium on the subject "Chemistry and the Environment (A Political Experience)." During the discussion period he was queried about New Directions.

The organization will be modeled closely after Common Cause, the citizens lobby created in 1970 by John Gardner, former secretary of HEW. New Directions, however, will address itself to problems of a global nature. Peterson spoke of the organization as a spiritual movement toward an environmental ethic. It envisions a fourfold objective: 1) to help the world's poor to help themselves, 2) to reduce the risk of war and violence, 3) to protect the global environment, and 4) to safeguard human rights. The organization hopes to join with citizens organizations around the world to encourage placing pressure on legislators to support their global objectives.

Leaders in the creation of New Directions include Father Theodore Hesburgh, president of Notre Dame; John Gardner; Robert McNamara, president of the World Bank; Norman Cousins, publisher of Saturday Review; Margaret Mead, anthropologist; Cyrus R. Vance, former deputy Secretary of Defense; and Joseph Slater, president of the Aspen Institute for Humanities Studies. The organizers hope to reach a membership of 100,000 in the first year with mem-



bership dues of \$25 apiece. Headquarters are at 2030 M St., N.W., Washington, D.C.

\* \* \*

Peterson's lecture was the last in the series set up by the Wisconsin Section in observance of the ACS Centennial. The earlier lectures dealt with chemistry and the arts. In March the section heard Alfred Bader, president of the Aldrich Chemical Co. discuss "Chemistry and Art." He showed many slides from his collection of paintings and gave attention to restoration of paintings suffering from the ravages of time.

The other lecture was by Dr. David Young of Chicago, whose subject was, "Amati and Stradivari—the Artists and the Chemists." He gave attention to the violin-making arts of the Italian masters in the 18th century and commented on their varnishes. He brought his own Stradivarius and Amati to the lecture and used them to illustrate his points.

## GLASS BLOWING

After 21 years of service as glassblower in the Chemistry Department Joseph Wheeler succumbed to the appeal of the Hawaiian climate and resigned to take a position at University of Hawaii. A reception was held in his honor by the department on February 19 in the ninth floor alumni room.

Joe was successor to Jim Davis who doubled as glassblower for the Physics and Chemistry Departments for many years before retiring for health reasons.

Joe's son Michael, also served as assistant to his father for a number of years before taking a position as glassblower at Arizona State University at Tempe.

\* \* \*

In July the Glass Shop reopened in charge of Mr. Charles Amling who received his training with the Corning Glass Company.

## ACS 50-YEAR MEMBERS

Fifty-year membership went to the following Badger Chemists according to the May 31, 1976 issue of CEN.

**A. C. Andrews**, BS '24, PhD '38, 902 Ratone, Manhattan, KS.

**Sidney J. French**, PhD '28, Gulf Harbor, Apt. 401, 17105 Gulf Blvd., N. Redington Beach, FL.

**William Floyd Holbrook**, BS '20, 708 Capitol Manor, PO Box 5000, Salem, OR.

**Albert C. Krueger**, PhD '30, 18 Titus St., Dover, NJ.

**Edward T. Lessig**, PhD '24, 1436 Graham Rd., Cuyahoga Falls, OH.

**Phillip T. Newsome**, PhD '26, 488 Sagamore Dr., Rochester, NY.

**C. Harvey Sorum**, MS '25, PhD '27, 938 University Bay Dr., Madison, WI.

**John W. Williams**, MS '22, PhD '25, 602 N. Segoe Rd., Madison, WI.

**Earl Holden Winslow**, MS '25, PhD '29, 2051 Coolidge Place, Schenectady, NY.

## TEMIN RECEIVES NOBEL PRIZE IN MEDICINE

In December 1975 Howard M. Temin of the McArdle Laboratory for Cancer Research was awarded the Nobel Prize in Medicine, the prize being shared with David Baltimore of MIT and Renato Dulbecco of the Imperial Cancer Research Fund Laboratory in London. Dr. Temin was honored for his work on virology and for his discovery that there is a "reverse transcription" process in cellular growth, a phenomenon which is particularly important in gaining a better understanding of the growth of cancerous cells.

Temin's work is focused on a virus which causes cancer in animals, the Rous sarcoma virus. Five years ago, Temin and Baltimore independently reported that the cancer virus transmits genetic information in a pattern which is the reverse of transmittal in normal cells. As early as 1964 Temin postulated that the RNA in the Rous virus could act in reverse fashion, attaching itself to the cell nucleus and performing the role of DNA in making the cell a tumor cell. It was only in the early 70s that experimental proof was forthcoming.

Temin joined the McArdle Laboratory in the 60s, following 20 years of work at Cal Tech. In 1974, he was awarded a lifetime professorship in cancer research by the American Cancer Society, a substantial grant having been given by the Society to the UW Board of Regents to cover his salary until he reaches retirement age in 2004.

Prior to receiving the Nobel Prize, Temin received the ACS Award in Enzyme Chemistry in 1973 and the Albert Lasker Medical Research Award for basic cancer research in 1974.

Temin received a substantial amount of news coverage at the

time the award was made in Stockholm by walking up to the podium and warning the crowd to stop smoking. He is reported to have said, "I am outraged at the lack of measures taken to stop smoking" at which point the 1100-person crowd, including Swedish and Danish royalty, Nobel laureates, and other dignitaries began to put out their cigarettes. At a press conference in Stockholm,



Temin remarked that about 80% of all cancer is caused by outside factors such as cigarette smoking and about 50% of that cancer could be prevented if human beings would heed medical advice.

Howard Temin is the third UW faculty member to receive the Nobel Prize during the past two decades. In 1958 the Medical Prize went to Joshua Lederberg for his work on organization of genetic material in bacteria. In 1968, Dr. Har Gobind Khorana received the Medical Prize for his pioneering work in the field of nucleic acid chemistry. Both Lederberg and Khorana left the UW for Stanford and MIT respectively.

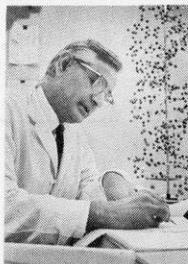
## GERRY AWARD TO ANDERSON

Janet Spencer Anderson, a fourth year grad student of Professor Vaughan, has been announced as a recipient of one of the first annual Eloise Gerry Awards administered by Graduate Women in Science, Inc. Ms. Anderson did her undergraduate work at William and Mary.

The awards are made possible by a trust left by Eloise Gerry who died in 1970 at age 85. Dr. Gerry was born in Boston and graduated from Radcliffe in 1908 with a major in chemistry. In 1921 she received the PhD at Wisconsin in botany and plant pathology. She became a Lecturer in the Forest Products Laboratory the next year, specializing in the anatomical structure of wood in connection with preservation of trees. She retired in 1955 but continued to maintain her home in Madison. The trust established in her name is intended to encourage scientific research by women.

## KHORANA RECEIVES HONORARY DEGREE

The University of Wisconsin conferred an honorary doctor of science degree on Har Gobind Khorana at the May 1976 Commencement. Now at MIT, Khorana was professor of biochemistry at the UW from 1960 to 1970, and a codirector of the Institute of Enzyme Research. In 1964 he became the first Conrad A. Elvehjem Professor in Life Sciences. He is widely known for his work on polynucleotides and on the nature of the genetic code. These studies led to his selection in 1968 for the Nobel Prize in Medicine which he shared with Marshall Nirenberg of the National Heart Institute and Robert Holley of Cornell. During his last years at Wisconsin he and his co-workers were successful in the



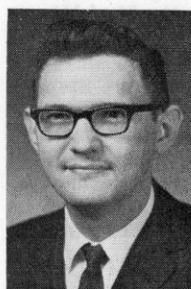
synthesis of a gene from nucleotides to obtain a complete double-stranded DNA molecule of 77 units. He has since that time synthesized more complex genes.

Born in Raipur, India, in 1922, Khorana received his BS '48, and MS '45 from Punjab University. His PhD was taken at the University of Liverpool in 1948. He was head of the organic chemistry group in the British Columbia Research Council (1952-60), and Visiting Professor at the Rockefeller Institute (1958) before coming to Wisconsin. He became a member of the National Academy of Sciences in 1966 and has had many honors, including the Willard Gibbs Medal of Chicago's ACS Section. His present post at MIT is the Alfred P. Sloan Professorship of Biology and Chemistry, a full-time research position where he works with a team of postdoctoral associates.

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Other honorary degrees granted in May included: Emily Hahn, who received the first engineering degree granted to a woman at the UW and became well-known for her books on China; and Guillermo Soberon, PhD physiological chem '58, who is now Rector of the National University of Mexico.

## TAYLOR WINS LAPEYRE AWARD



At the Ninth Annual Synchrotron Radiation Users Meeting held on October 25th at Synchrotron Center, Professor James W. Taylor was presented with the coveted G. J. Lapeyre Memorial Award for 1976. This award has the subtitle of "per Ardua ad Bremsstrahlung." Professor Taylor was specifically cited for his contribution to synchrotron radiation research through his efforts with the National Academy of Sciences panel, which prepared a report on the national need for radiation facilities, and his efforts at advancing the case for VUV research in the midwest.

Professor Taylor joined the analytical division staff in June 1966 coming from his position with the Mobil Chemical Company in Beaumont, Texas where he worked briefly as a development chemist. Prior to that, he had been assistant professor of chemistry at Tulane University. He was a native of Newton, Mississippi, received his BA at Vanderbilt, his MS at Georgia Tech and his PhD in 1964 at Illinois. His research interests are in the field of mass spectrometry, isotope kinetics, and reaction mechanisms.

## RECENT DEATHS

Just before printing this issue we have had notice of deaths of two former UW faculty members.

Raymond Nevoy Keller died in Boulder, Colorado on September 21, 1976 according to a note from Prof. Edward King. Ray will be remembered by some as an instructor in the inorganic division from 1940 to 1942 when he took a similar position at Michigan. He was at Michigan until 1951 when he joined the faculty at University of Colorado. He had had open heart surgery in July 1972 and had not been well thereafter. Professor Keller received his BA at Indiana U in '37 and took his PhD at Illinois in '40. His research interests were in the field of coordination chemistry and radiochemis-

try. In 1950-51 he spent a year at the Argonne Laboratory and at Colorado was Director of Isotopes Laboratory from 1952 until his retirement. Dr. Keller is survived by his wife and three children.

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The death of S. Morris Kupchan was reported in mid-October, 1976 by Glenn Sonnedecker of the UW School of Pharmacy. The cause was lung cancer. Dr. Kupchan was born and educated in New York City where he received his BS at City College in '41 and his MS and PhD from Columbia University, the latter degree in 1945. He served as a staff member at Columbia and Harvard during the next seven years. In 1955 he joined the organic group in the UW Chemistry Department as Lecturer. He joined the Pharmaceutical Chemistry Department in 1957, where he carried on a vigorous research program on natural products at Wisconsin until joining the University of Virginia faculty in 1969. Dr. Kupchan and his coworkers concentrated their activities on the isolation, identification and testing of naturally occurring plant alkaloids and terpenoids. A number of these compounds were found to have tumor inhibitory and antileukemic activities. He was recipient of the Ernest Guether Award in the Chemistry of Essential Oils in 1975. The award is sponsored by Fritzsche-Dodge and Olcott and was given to recognize Dr. Kupchan's work on tumor inhibitory characteristics of various naturally occurring alkaloids.

## This 'n' That . . .

(Continued from page 16)

books: *Digital Electronics and Laboratory Computer Experiments* and *Introduction to Computer Programming for Chemists—Basic Version*. He works with the Molecular Spectroscopy group at 3M Co. He reports that his office mate is William Stebbings, PhD '72.

**Layton J. Wittenberg**, PhD '53, is at the Monsanto-operated ERDA Mound Laboratory in Miamisburg, Ohio.



**Eugene L. Woroch**, BS '44, PhD '48, is now director, Antibiotics & Natural Products, Abbott Laboratories. He joined Abbott in '61 following production and research positions with the Glid-

den Co.

**Jo Ann Yamamoto**, BS '75, is a doctoral student at the U of Minnesota. She is the third member of the Yamamoto family to enter the chemical field, her siblings Stephen and Diane holding doctoral degrees and being associated with Eastman Kodak and Wyeth Pharmaceutical respectively. Jo Ann's father recently retired from his position as State Architect of Wisconsin.

**Laura Ardini Yeakel**, MS '68, (PhD Notre Dame '72) holds a teaching position at the University of Virginia.

**Richard G. Zastrow**, BS '71, asks to be placed on the mailing list at his present address, 4373 18th St., Bettendorf, Ia. He only recently became aware of *Badger Chemist* when "through some sheer stroke of luck, one issue finally found its way to me. Receiving this copy was remarkable in that it took no less than five forwarding actions,

through both foreign and domestic postal systems, before finally escaping the clutches of the system." Richard has made six moves around the world since graduation, thus considers the odyssey of his BC understandable. What the editor finds remarkable is the unusual persistence of at least five postal workers in bothering to forward it.

**Stephen D. Ziman**, PhD '71, wrote to correct a mistake in degrees reported in Newsletter 22. Steve received his BS from Michigan in '67 and took his PhD at Wisconsin where he worked with Professor Trost. After postdoctoring at Stanford for two years he spent two years with DuPont before taking his present position in the Ortho division of Chevron Chemical Co. in Richmond, CA. He is doing research work in pesticide chemistry.

**Badger Chemist** is made possible as a result of the financial help of friends of the Chemistry Department (see editorial, p. 2). Costs continue high. Your contributions are keeping the editor in the classroom rather than in jail for nonpayment of bills. Keep him in the classroom by sending appropriate offerings to:

(Include news!)

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