



Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 22 September 1975

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BADGER CHEMIST

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

Newsletter 22

September 1975



THE NEW AND THE OLD

The air photo above shows the present quarters of the Chemistry Department, with the former quarters at the top of the photo. University Avenue runs between the two buildings. The present building is bounded by Mills Street at the right, Johnson Street at bottom, and Charter Street at the upper left. University and Johnson are now one-way streets going west and east respectively. The Chemistry Building shares the block with Wesley Foundation Church at the upper corner, and two frame houses at the left. Corners of the Zoology Research Building (lower left), Brogden Psychology

Building (center left), and the Hospital (upper left) are also seen. The former Chemistry Building is now known as the Physics-Pharmacy Building and is occupied by those two disciplines. The picture was taken before the replacement of the center portion was begun. The new Chemistry Building is now officially named the J. Howard Mathews Chemistry Laboratory (the six-story unit completed in 1962 and fronting Johnson Street) and the Farrington Daniels Chemistry Building (the tower and the low level classroom portion facing Mills Street and University Avenue).

BADGER CHEMIST

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**Many Thanks,
But Keep it Coming!**

The Editor is pleased to report that for the first time since he took over with BC 17 in 1969 his operation is in the black. Alumni response to the last plea for lubrication was gratifying and the printer's bill is paid in full despite an increase of \$245 in the printer's bill for an issue of the same size as no. 20.

The Editor, nevertheless, continues to live dangerously since this issue goes to press with no accumulated funds, but faith that somehow you will keep him out of jail. In other words, he extends his deepest gratitude for your past generosity while reminding you that his financial future continues to depend on your continued support.

As you realize by now, this departmental newsletter has been made possible over the years, not by state funds, but by the faithful support of a corps of interested supporters. A cause for concern is the fact that a few have been very generous over the years, sending checks ranging in size from \$5 to \$50. The editor appreciates this support but would feel more

TOWN AND GOWN

The past year in Madison, in character with tradition, has been not always rational, but seldom dull. The voters last fall reelected a Democratic governor (Pat Lucey), a Democratic Assembly, and for the first time since 1892—a Democratic Senate. A homogeneous party line in the State Capitol did not, however, lead to a harmonious legislative year. As of this writing (late July) we still do not have a state budget for the biennium we are now in, although an austere budget has been passed by devious manipulations by both houses and awaits the governor's signature—a gain over the previous biennium when a budget was not passed until November.

Among those elected in the Democratic sweep of 1974 was Douglas La Follette, onetime post-doc in the Chemistry Department and until 1972, when he won election to the State Senate, a member of the chemistry faculty at UW-Parkside. La Follette, a distant relative of the late Senator Robert La Follette, was elected Secretary of State. His first act in office was to attempt, with little success, to stiffen the rules dealing with lobbyists. In the Senate he had met with similar lack of success in seeking passage of environmental legislation.

secure if small contributions came from many more alums.

As pointed out last year, if you are one who does not wish to receive the newsletter, please let us know so that these costs can be saved.

Another 200 copies were returned last year for lack of a correct address. These names have been removed from the mailing list. If you hear of anyone who is no longer receiving the *Badger Chemist*, tell them to send their correct address and we'll gladly put them back on the mailing list.

We are presently working with the Alumni Records Office to simplify mailing operations. Records are being computerized which will simplify addressing operations and hopefully lead to greater success in keeping addresses current.

We have also been investigating changes which might reduce printing costs which now run about 35¢ per copy. It appears that any substantial savings can only be made

At its spring 1975 election, the City of Madison voters reelected Mayor Paul Soglin whose election in 1973 attracted nationwide comment in connection with his role as a student radical in the sixties. Although conservative circles sought to defeat Soglin by running former mayor and businessman Henry Reynolds against him, Soglin won easily, in sharp contrast to his close victory over incumbent Mayor William Dyke in 1973.

The city is undergoing striking physical changes. The two blocks of State Street nearest the campus have been closed to vehicular traffic and are being converted to a pedestrian mall. The development of a Capital Concourse is to take place on the part of State Street nearest the Square. A Farmer's Market sells farm produce twice weekly at a parking lot just east of the Square. The First National Bank Building at the Square and East Washington Avenue was razed several years ago to be replaced, along with the squareside stores between East Washington and East Main, by an enormous glass bank building and shopping plaza known as the First Wisconsin National Plaza. The structure was nearing completion just when the energy crunch was becoming

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in the direction of substantially reduced quality: Elimination of pictures would not produce large savings; change of paper quality would save less than expected since even newsprint has become very expensive; even cutting the newsletter to half-size is unattractive since the labor costs of setting up four pages are already substantial—adding more pages increases costs, but at a decreasing rate. Thus, the decision has had to be based on continuing to produce a quality newsletter with a broad base of information, or cutting back very substantially. In the light of your supportive response last year, the decision has been to continue with the present format.

We do, however, appreciate suggestions for improvement, particularly with respect to coverage areas which have been inadequate in the past. Also, keep on sending news about yourself! Your classmates and teachers care.

This 'n' That About Our Alumni

Anonymous. The editor expresses thanks for the \$1.00 in cash which arrived with the post-mark, Seabrook TX 77586.

Mary Mennes Allen, BS '60, is now a faculty member in the Department of Biological Sciences at Wellesley College. After leaving Wisconsin she took the PhD in microbiology at Berkeley in 1966.

Leslie H. Andrews, BA '27, MA '28 (PhD '32, Pittsburgh) retired eight years ago as technical director of the Green Bay plant of American Can Company. He reports enjoying excellent health at age 72, gardening, taking care of his cottage in Oconto County, along with active involvement in his Masonic Lodge. He lives at 142 South Oneida Street, Green Bay.

Paul R. Austin, BS '27, has retired from duPont, but has been working part-time with the University of Delaware where he is Adjunct Professor of Marine Chemistry.

Charles F. Bailey, PhD '30, reported on a 4500 mile trip from Kalamazoo to Texas and return last fall with 55% of the driving in Texas. Various friends and relatives were visited en route including an enjoyable evening with Dr. and Mrs. Carl Folkers, PhD '31, DSc '69, at their home in Austin.

George C. Bailey, PhD '09, writes, "like the old grey mare, not as spry as we used to be." We are led to question the correctness of the quote however since the Baileys had just completed a month in Vienna and a month each in Baden Baden and Paris. Back in Elizabeth, NJ they look forward to use of season tickets to the opera, philharmonic orchestra and exhibits of Metropolitan Museum of Art.

James Bain, MS '40, sends his contribution from 2275 Tanglewood Rd., Decatur, GA 30033, but without a bit of news about his activities.

Merten D. Baird, PhD '69, is chairman of the chemistry department at Shippensburg State College, Shippensburg, PA. He writes that their chemistry faculty of 8 has 2 Wisconsin PhD's (M.D. Baird, '69 under Prof. Wharton, and J. R. Wilson, PhD '65 under Willard). Two other faculty members have their undergraduate degrees from Wisconsin campuses at Milwaukee and Platteville.

Oliver Baldwin, who studied in the department in the early 20's, writes from P.O. Box 551, Key Largo, FL, reporting a recent trip to his old territory in Wisconsin, Michigan, and Indiana visiting friends and relatives. He reports that *Badger Chemist* takes him back plenty of years. He remembers Karl Paul Link who could sure, "HIT" the exams on the head with no special studying! He says, "I can see so many names in each issue of the *Badger Chemist* that remind me of my youth in Madison."

Karen E. Ziege Bartelt, BS '71, completed work on her MS in chemistry at Drexel University in Philadelphia in fall of 1974, doing research in the general area of spectroscopy and physical chemistry. She is married to Robert J. Bartelt, BS '71. His tour of duty in the Coast Guard has now ended and he has taken a research assistantship in entomology at the University of Minnesota.

Lyman A. Beeman, BS '18, wrote to Professor Schuette on October 31, 1974 reporting that the hunting season had been good and he was able to put his tag on a very fine buck. He was about to embark on a trip to Washington, DC and hoped to take a swing into Virginia for some quail shooting. Lyman is Chairman of the Board of Finch, Pruyn, and Company, Inc. of Glen Falls, NY. He reports that their pulping process by the bisulphite method with ammonia as a base instead of calcium or magnesium is working out well and he thinks it is a real breakthrough in the process, without odor and with reasonable ease plus elimination of river pollution. He writes, "the basic chemistry that I learned with the help and experience of the philosophy of Professor Kahlenberg still remains a great help."

John W. Berge, BS '57, PhD '59, finds his work with polymers that go into the products of Johnson Wax to be very interesting. He also is doing a substantial amount of work in the church and has recently prepared a church booklet entitled, *The Human Crisis In Ecology* and is now assisting in writing a social statement on that subject for the Lutheran Church in America.

Ann Ratcliff Bergen, BS '57, reports moving from Falls Church, Virginia to Villanova, PA as a con-

sequence of her husband's new position as President of Philadelphia College of Pharmacy and Science. Her husband John received his PhD under Dr. Smissman in the UW School of Pharmacy in the '50's. Ann will be remembered by
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DELAWARE'S SUPER SCIENTISTS

The April 1975 issue of *Delaware Today* magazine carried a lengthy article entitled "The Super Scientists" in which recognition was given to 70 scientists active in the state. While the largest number of the recognized scientists are at the University of Delaware or duPont Experiment Station, there was broad representation of institutions and industries around the state. Badger Chemists who received recognition in the article are:

Edward G. Brame, Jr., PhD '57, spectroscopist in the Elastomer Chemicals Dept. of duPont, who studies infrared and nuclear magnetic resonance spectroscopy for use in polymer chemistry, products used in rubber materials, packaging, fibres and many other areas. He is editor of *Applied Spectroscopy Reviews*, and a book series on practical spectroscopy. His wife Grace is a well-known professional singer and teacher.

James E. Carnahan, PhD '46, is a research supervisor in duPont's central research operation. He is studying the impact of air pollution on crop plants and how to prevent damage to foliage and yields. Other fields of research include insect physiology and insecticides, plant growth modifiers and herbicides, and pharmaceuticals. He received the 1965 Hoblitzelle National Award for research in agricultural sciences.

David C. England, PhD '43, is an organic chemist in the Central Research Dept. of duPont. For several years he has been studying organic fluorine chemistry, such as freons and teflons containing fluorine compounds. He is exploring reactions in an attempt to determine other possible products which can be made from these compounds.

In addition to the statements noted above, the magazine carried pictures of the scientists who were honored.

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apparent and too late to abandon the glass walls.

Auditorium

The city may be on the verge of finally getting an auditorium—not the Frank Lloyd Wright-designed structure on the shore of Lake Monona approved by the voters in 1954, but a very modest remodelled Capitol Theatre on State Street. The Wright-designed structure was stymied for four years by passage of a state law sponsored by a Madison assemblyman which limited construction on the lake shore to a height of 20 feet. By the time that assemblyman was defeated and the law repealed, building costs had risen to the point that the voters disapproved the added costs. In the meantime Wright had died but the Wright Foundation sought to come up with plans that were financially attractive, yet architecturally distinguished. The attempt was frustrated by rising costs coupled with the firm opposition of anti-Wright forces in the city. A most recent attempt to gain approval for a lakefront auditorium was defeated by the voters in the fall election of 1974. Since then the city has purchased the old Capitol Theater (opened in 1928) and the adjacent Sears Roebuck building on State Street in anticipation of substantial remodelling which will undoubtedly cost as much as the bond issue originally approved in 1954 for a lakeshore auditorium of much greater capacity and diversity.

Campus Building

The building program which began on the campus soon after the end of World War II, which substantially changed the appearance and dimensions of the campus, has virtually ground to a halt. The only major buildings now under construction are a Physical Sciences-Engineering Library at the corner of Dayton and Randall Streets and the first phases of the relocated Medical School on the former University farm area between the Forest Products Laboratory and the Village of Shorewood Hills. After substantial additions to the Hospital and Medical School complex on campus it was decided a few years ago to embark on a program to move the Hospital and

Medical School to the far west end of the University's property. This move is not programmed for completion for many years but the Waismann Mental Retardation Center is completed and additional buildings are started. The Waismann Center is named for Dr. Harry Waismann, BS '35, whose untimely death was reported in Badger Chemist 19.

Construction of the Physical Sciences-Engineering Library was begun only after a long period of debate. When such a library was first projected, Louis Kaplin, the University Librarian, conceived the building as a central science library to house all physical science holdings. In other words, he intended to eliminate all branch libraries such as the Chemistry Library, Physics-Math, Geology, etc. When this plan, conceived and developed without consultation of the departments involved, became generally known, a major tempest developed. The science faculties insisted that research would be seriously handicapped if, for example, a chemist had to leave his laboratory to walk to a distant building to check a melting point or an I-R spectrum. Happily, the scientists won and will retain their departmental libraries as substantial working collections.

Major buildings completed in the last decade include: Farrington Daniels Chemistry Building in the block bounded by University, Mills, Johnson, and Charter Streets; the Lowell Noland Zoology Building, at the corner of Johnson and Mills across from the Chemistry Building; Educational Sciences Building at Johnson and Mills cater-cornered from the Chemistry Building; the Middleton Medical Library located on Linden Drive directly behind the Hospital; Van Hise Hall, an 18-floor tower at the corner of Linden and Charter housing all of the language departments (sometimes referred to as the Tower of Babel) as well as Central University Administration on the upper floors; Russell Laboratories on Linden and Babcock Drives across from Babcock Hall, housing Entomology and Wildlife Management; the Harry Steenbeck Library at the corner of Babcock and Observatory Drives, housing the agricultural and life sciences libraries; the Nielsen Tennis Stadium constructed with gift funds (\$2,000,000) from the Nielsen family, housing tennis and squash courts on Marsh Road beyond Parking

Lot 60; Alumni House, built with alumni contributions at the end of Lake Street across from the AXE House; the Humanities Building on Park Street between State and University; the Vilas Communication Hall at the southeast corner of University and Park; the Elvehjem Art Center, on University beside the Humanities Building; the Helen White Library and Office Building, on the lake at the end of Park Street (on the site of what was originally the first Chemical Laboratories Building, and after 1905, Chemical Engineering (with physiological chem in the attic)) and more recently the WHA television studio; and a substantial addition to the Memorial Library at the corner of State and Lake. The stores on that corner were razed to make way for the library addition. The old University Co-op (no longer a co-op but changed in name to University Book Store) banded together with Calvary Lutheran Church to construct a new building on the southwest corner of State and Lake. The resulting structure, an austere, heavy masonry structure virtually without windows, is shared by religion and commerce. An extensively remodelled St. Paul's Catholic Church, and the Presbyterian Church (Pres House) make up the rest of the block between Lake and Murray Streets.

The University Club still operates at its regular site on State, but no longer rents rooms to members. Instead, the former living quarters are occupied by various university offices. The dining room no longer has table service but operates buffet service at noon with food supplied by the Union. The former Administration Building and all residences in the block were razed to prepare the site for the Humanities Building (considered by many to be the University's ugliest building) which houses history and music, and the Elvehjem Art Center. Vilas Communication Hall houses journalism, speech, drama, and electronic media. It contains several small theaters and the broadcasting facilities for the state radio and television system.

The Old Chemistry Building at the northeast corner of University and Charter survives in substantially altered form. The physics department expanded from Sterling into the building after tearing

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down the center unit and replacing it with a compact modern structure. Only the columnar facade was retained, but with a substantially altered entrance. Pharmacy shares the east and west wings of the building with physics. These wings, of more modern construction, were not rebuilt but have had substantial interior remodelling.

The Lewis G. Weeks Hall for Geological Sciences was dedicated in October 1974. It stands at the southwest corner of Charter and Dayton Streets and houses the departments of geology and geophysics. A gift of \$2.5 million toward its construction was provided by Lewis G. Weeks, BS, geology '17, DSc '70, whose active career as a geophysicist was spent with Exxon, and who since retirement in 1958, has headed an enormously successful consulting firm. The building stands beside the previously constructed tower housing Meteorology and Space Sciences. The Computer Sciences Building is in the same block on the north side of Dayton.

Still another recently completed structure is Union South at the southeast corner of Johnson and Randall Streets. Operated by the Memorial Union, it provides cafeteria service, lounges, and meeting rooms for students and faculty at the southwestern part of the campus.

The UW-Madison led some 900 other state public institutions in performing research and development projects during 1973, according to the most recent statistics available from the National Science Foundation.

Resourceful University

As a part of the 125th Anniversary activities just ended at Madison the UW Press has issued a volume entitled *A Resourceful University*. It is not a retrospective account but seeks to examine where the Madison unit is at the present time, particularly in the light of developments of the past quarter century. As is nearly always true of a book written by a committee, the chapters vary in quality. Most of them suffer from having forced too much information into too little assigned space. Nevertheless, the

volume contains numerous snippets of interesting information and a few useful insights.

The 5½ page section dealing with the physical sciences in L&S was written by Professor Arthur Robinson of the Geography Department. The reference to the Chemistry Department runs three paragraphs and may therefore be quoted in full.

"Perhaps the most notable development in Chemistry is the greater number of large, complex instruments employed in the research and instructional programs. True, chemists were employing X-ray crystallography and mass spectrometry to study complex organic compounds more than twenty-five years ago, but such equipment was far less sophisticated than it is now. The new investigative tools are a consequence of the general development of electronics, along with such things as lasers. With these and other sophisticated devices, Chemistry is exploring and teaching molecular structure, the nature of the binding of constituent nuclei and electrons, the quantities of energy involved in the binding, and the structural characteristics of crystalline materials.

"The new avenues and methods of research and instruction were greatly promoted by the establishment of a Theoretical Chemistry Institute around 1960, first financed by NASA and later by the NSF, which was primarily concerned with the analysis of molecular structure by mathematical methods employing the quantum theory. The excellent facilities of the department have drawn increasing numbers of postdoctoral researchers, many from foreign areas, and there are now upwards of fifty of these in the department's new building at any one time.

"Even chemistry instruction at Wisconsin is exciting (for both students and staff!), as evidenced by the fact that there are usually some 2,500 students enrolled in Freshman Chemistry each fall. Even in Freshman Chemistry the most up-to-date methods are employed. In addition to such innovations as TV monitors to bring demonstrations closer to the student in lecture halls and special tape cassettes to assist study, there is a special study room regularly staffed by teaching assistants."

Other chapters deal with highlights of the other Madison schools and colleges and with special programs such as the Institute of Environmental Studies, International Programs, the Libraries, the Union, and Intercollegiate Athletics.

Athletics

The latter chapter stresses the upturn of Wisconsin sports since the coming of Elroy "Crazylegs" Hirsch as Athletic Director in 1969. Many alumni will remember his prowess on the 1942 football team and his later stardom with the Los Angeles Rams. Football is on the rise at Wisconsin after a long period of frustration in the sixties, the school finally having a winning season last fall—the first in 10 years—and a fourth place finish in the Big Ten. Hockey has become a popular sport at Wisconsin since its reinstatement on campus in 1962. The Badgers have enjoyed 12 winning seasons and took the NCAA title in 1973. Basketball generally has not been strong except for 1974 when Wisconsin posted a 16-8 record with 4 of the defeats by 1 point.

Track has been strong since 1960, with 5 straight Big Ten titles in 1967-71 and strong records in most years. Swimming has benefited from availability of the new Natatorium in 1964 with regular high finishes behind perpetual Big Ten Champion, Indiana. The construction of the Nielsen Tennis Stadium in 1968, with the gift of 2 million dollars from A. C. Nielsen, Sr., tennis captain in 1918, has not only brought a resurgence of tennis at Wisconsin but has provided tennis and squash courts for use of faculty and students the year round. (The 2 tennis courts directly east of the Old Chemistry Building are no longer there. They were razed a decade ago and replaced by a very lovely botanical garden.) The Big Ten meets for both men's and women's tennis have been held at Wisconsin for the past 4 years.

Wisconsin became a national powerhouse in crew during the last decade. A new crewhouse just west of Adams Hall has provided modern facilities, including an indoor rowing tank. Varsity victories were posted at the IRA regatta at Syracuse in 1966, 1973, 1974, and 1975. The showing of freshmen and J-V crews was also noteworthy.

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and from 1972 through 1975 the Badgers took the Ten Eyck Trophy, symbolic of strongest team showing at the IRA. This record is remarkable when it is recalled that Athletic Director Hirsch recommended abolition of rowing in 1971 on the grounds of cost to the athletic budget. Rowing alumni rose en masse and saved the century-old sport from extinction.

Collegiate boxing, which was dominated by Wisconsin in the forties and fifties, was dropped as an intercollegiate sport in 1960 following the death of a Wisconsin boxer by a ring injury.

Newsworthy is the rapid rise and expansion of women's sports at the intercollegiate level. A Director of Women's Intercollegiate Athletics was named in 1974 and there is competition in eleven sports at the moment (badminton, basketball, crew, fencing, field hockey, golf, gymnastics, swimming, tennis, track & field, and volleyball). The women's varsity crew placed first in the Nationals in 1975, and one of the track team's middle distance runners has been showing well in international competition this summer.

Fees and Stipends

Tuition for the academic year (1974-1975) for students on the Madison Campus is: Residents-freshmen and sophomores, \$573; juniors and seniors, \$648; grads, \$796; Non-residents-freshmen and sophomores, \$1906; juniors and seniors, \$2204; grads, \$2634. Teaching assistants in chemistry are paid \$4563 if inexperienced, (507/mo.), \$4743 if experienced (one year previous experience as a TA, 527/mo.). In addition, non-resident tuition is cancelled for TAs. Research assistants are paid \$3586 on an academic year basis or \$4344 if on annual appointment, and also receive remission of the non-resident portion of their tuition.

According to decisions just made as we go to press, Madison tuition policy is being changed to show no differentiation between underclassmen and upperclassmen. Undergraduates of Madison will pay \$630 per year, if resident, \$2206 if non-resident. Graduate tuition has been set at \$900 for residents, \$2856 for non-residents.

CONCERNING THE FACULTY

Because of your inquiries regarding specific faculty members, this newsletter will include brief reference to everyone now on the professorial staff. In this way it is also possible to bring you up-to-date regarding its present composition together with a brief look at a few activities.

Paul J. Bender teaches "topics in chemical instrumentation" virtually every semester and summer session and is responsible for a team of project associates, specialists, electronics technicians and technical assistants who keep the large instrumental program viable. He has recently stepped down from his position as Chairman of the Physical Chemistry Division. Last November, he presented an invited lecture in the Chemistry Department of Jackson State University in Mississippi at the invitation of Charles Trottman, PhD '72. Paul's wife Margaret is on appointment in the Institute for Environmental Studies where she is responsible for the activities connected with carbon-14 dating of archeological and environmental artifacts. It will be recalled that she is a Yale PhD in organic.

Michael J. Berry has just been promoted from Assistant to Associate Professor. During the past year, he presented invited papers at the Gordon Research Conference on Atomic and Nuclear Interactions, and at Schliersee, Germany at the Conference on Radiationless Processes. These lectures have been based on his research dealing with chemical laser studies of reaction dynamics. The Camille and Henry Dreyfus Foundation made a Teacher-Scholar Grant to Mike last November. His wife Julie, is currently a doctoral candidate in the department.

Walter J. Blaedel has become deeply involved in interdisciplinary research with the Soil Science Department and the Department of Water Chemistry and since 1972 has been serving on the Technical Advisory Committee dealing with waste water discharge to storm sewer systems in the City of Madison.

Charles P. Casey participated in the Gordon Conference on Organometallic Chemistry in July 1974 and has given a number of invited lectures at universities and company seminars. His wife, also a

PhD chemist, has been associated with Vice Chancellor Shain's office during the past year.

Phillip R. Certain presented an invited paper at the Gordon Research Conference on Atomic and Molecular Interactions in August 1974. He has recently been honored with an Alfred P. Sloan Fellowship. In the undergraduate physical chemistry course he has been implementing the Tips System of Rapid Assessment of Student Progress and Understanding and has recently organized a workshop in Computational Chemistry. This workshop, is one of three being sponsored by the Theoretical Chemistry Institute, is being held under the leadership of Dr. A. C. Wahl of the Argonne National Laboratory. It may be remembered that Dr. Wahl was briefly associated with the TCI faculty. The workshops seek to acquaint chemists at Wisconsin with the computational resources at Argonne and how they may be used remotely to solve research problems in experimental and theoretical realms.

C. Daniel Cornwell has been very actively involved in Teacher Evaluation Programs being carried out by university students in recent years. *Journal of Chemical Education* published an article on statistical treatment of data from such questionnaires in 1974. In the laboratory he is pursuing microwave and NMR studies on molecules such as HPF_4 in order to obtain improved structural insights into these compounds.

Charles F. Curtiss continues to serve as Associate Director of Theoretical Chemistry Institute. In August 1974, he was discussion leader at a Gordon Research Conference in Wolfeboro, NH.

Lawrence F. Dahl was Lead-off Plenary Lecturer at a symposium on Metal Carbonyl Chemistry held in Ettal, Germany in honor of Professor W. Hieber. He was also named the recipient of Nebraska Lectureship Award for 1974 and was selected as first Ritter Memorial Lecturer at Miami University in Ohio.

The **Ritter Memorial Lecture** was created for the late Howard L. Ritter who was assistant professor of Chemistry at the UW from 1946 to 1952 before becoming Chairman of the Chemistry De-

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Faculty . . .

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partment at Miami University. In 1962 Ritter was made Research Professor of Chemistry, a position he held until his sudden death on November 21, 1967. His widow Marie continues to make her home in Miami. She and the five Ritter children were honored guests at Dr. Dahl's lectures and the ceremonies connected therewith.

Dennis H. Evans gave invited papers in England in September 1974, speaking at the International Society of Electrochemistry and the Imperial College of Science and Technology. He has also presented a number of invited papers at various universities in the United States. In July 1974, he was lecturer in a short course in Columbus, Ohio on "Advanced Instrumental Methods in Electrode Kinetics."

Richard F. Fenske took time from his Chairmanship duties to deliver ACS lectures in February 1974 to the Sections in Nashville and Oak Ridge, TN. He also presented an invited paper at the University of Alberta, Edmonton.

In July 1974 **John D. Ferry** and Mrs. Ferry attended the International Symposium on Macromolecules in Rio de Janeiro and traveled extensively in South America before and after the meeting. He also gave invited lectures at Georgia Tech and North Carolina State.

Donald F. Gaines visited the chemistry department of University of Manchester recently where he presented an invited paper. He also participated in the Gordon Conference on Inorganic Chemistry and at the International Conference on Boron Chemistry. He is co-author with J. J. Borlin of a chapter in the book, *The Chemistry of Boron Hydrides* which is edited by E. L. Muetterties.

Harlan L. Goering held the Alexander von Humboldt Foundation Senior Science Award in 1974. This award, in recognition of past achievements in research, provided for a seven month stay at scientific institutions in the Federal Republic of Germany. His home base was at the Institute for Organic Chemistry, University of the Saarlandes, Saarbrücken. During this period he visited scientists and lectured at many German universities, also at many universities in Switzerland and Yugoslavia. His

period abroad was May to December 1974.

John E. Harriman participated in a Density Matrix Conference held as part of a Canadian Theoretical Chemistry symposium in Kingston, Ontario and Ottawa.

Joseph O. Hirschfelder, Director of the Theoretical Chemistry Institute, is also Adjunct Professor at the University of California-Santa Barbara. He spends the winter quarter at the latter institute. During 1974 Joe was University Lecturer at the Seventh Midwest Theoretical Chemistry Conference, Lexington, KY and participated at the Gordon Research Conferences at Wolfboro, NH.

Aaron J. Ihde gave the first Ralph Oesper Lecture at the University of Cincinnati in May 1975. Ralph Oesper was one of the pioneers in developing the history of chemistry and published extensively in the field of biography. At age 89 he continues his translation and writing in the field. He took great pleasure in introducing the speaker.

Alex Kotch has served for two years as President of the Madison Chapter of the American Associa-

tion of University Professors and continues as Consultant-Examiner for North Central Association Colleges and Secondary Schools. He continues his activities as Associate Chairman and during summer session serves the department as Chairman.

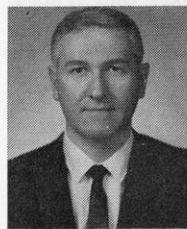
Edwin M. Larsen presented a paper in Vienna in July 1974 at the Fourth International Conference on Nonaqueous Chemistry. He is associated with Professor Helmke of the Soils Department in a research project on trace elements in the Wisconsin environment. The two elder Larsen children were married this summer.

Stephen F. Nelsen presented invited lectures at the University of Alberta and at the University of Southern California, and participated in the Gordon Research Conference on Radical Ions at New London, NH. He is the holder of a research grant from the A. P. Sloan Foundation.

Marion H. O'Leary presented an invited paper at Leningrad at the Joint USSR-USA Symposium on Pyridoxal Catalysts in August 1974. He is supervisor of a pro-

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SHAIN RETURNS TO WASHINGTON



In May it was announced that Prof. Irving Shain had accepted an offer to become vice-president for academic affairs and provost at the University of Washington in Seattle, Shain's Alma Mater. Since 1970 he has served as vice-chancellor for the Madison campus. His new responsibilities at Seattle include development and implementation of academic policies and programs, as well as oversight of personnel, budget, admissions, and educational development. His appointment is effective September 1, 1975.

In announcing the resignation, Madison Chancellor Edwin Young commented, "The Madison Campus deeply regrets the loss of Irv Shain. During difficult years, he has earned and kept the respect of our university community for his intelligence, fairness and dedication. . . . In all my experience I have never known an abler, more

dedicated university administrator.

Shain joined the Chemistry Department in 1952 as Instructor in the analytical division. He had just completed his PhD at Washington where he worked under Prof. A. L. Crittenden. His BS was taken at Washington in 1949. He was born in Seattle in 1926 and educated in the local schools. His undergraduate career at Washington was interrupted by service in the U.S. Army, 1943-46.

In 1947 he married Mildred Ruth Udell. They have 4 children: Kathryn Ann, 25, took her BS at the UW in psychology in 1972, followed by an MS at Emory in 1974, and now works in the medical library at the UW; Steve, 20, lives in Madison and plans to be married in September; John, 15; and Paul 12 are in public schools.

Even after becoming vice-chancellor, Dr. Shain maintained an active research program dealing with electroanalytical chemistry. His goals were the development of new methods for the investigation of electrode reactions in order to gain a better understanding of

(Continued on page 8, col. 1)

Faculty . . .

(Continued from page 7)

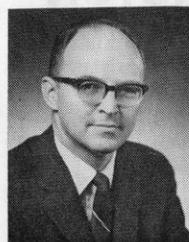
gram to provide tutorial assistance and study materials for minority and disadvantaged students taking freshman chemistry. During the spring semester '75 he spent a research leave partly in Madison, partly in Berkeley continuing studies of an unusual enzyme-catalyzed reaction which hopefully may have application in treatment of Parkinson's disease. He recently finished a text, *Contemporary Organic Chemistry—Molecules, Mechanisms, and Metabolism* being published by McGraw-Hill.

Shain . . .

(Continued from page 7)

how such reactions occur. He has been a member of the editorial advisory board for *Analytical Chemistry* and an associate editor of the ACS Monograph Series.

From 1967 to 1970 Irv served as chairman of the chemistry department. He was a leader in departmental affairs during his entire period at Wisconsin. He will be sorely missed. We wish him the utmost success in his new position.



Shain's position as vice-chancellor has been filled on an interim basis by Robert M. Bock, PhD '52, who has been Dean of the Graduate School since 1967 when Robert A. Alberty, PhD '49, resigned to become Dean of Faculty at MIT. Bock, a student of Professor J. W. Williams, joined the Biochemistry faculty at Wisconsin upon graduation and now holds a professorship of biochemistry and molecular biology. He is chairman of the ACS Division of Biological Chemistry, and chairman of the Committee on Public Policy of the American Society of Biological Chemists. As the Governor's Science Advisor a few years ago he was responsible for a committee report on Project Sanguine, a Navy plan to underlay much of northern Wisconsin with a radio antenna to provide contact with submerged nuclear submarines in the world's oceans. Wisconsin has been abandoned as a site for the project.

Robert A. Alberty, PhD '49, resigned to become Dean of Faculty at MIT. Bock, a student of Professor J. W. Williams, joined the Biochemistry faculty at Wisconsin upon graduation and now holds a professorship of biochemistry and molecular biology. He is chairman of the ACS Division of Biological Chemistry, and chairman of the Committee on Public Policy of the American Society of Biological Chemists. As the Governor's Science Advisor a few years ago he was responsible for a committee report on Project Sanguine, a Navy plan to underlay much of northern Wisconsin with a radio antenna to provide contact with submerged nuclear submarines in the world's oceans. Wisconsin has been abandoned as a site for the project.

H. Thomas Record was a participant in the Gordon Conference on Biopolymers held in New Hampshire in July 1974. His research interests lie in the kinetics of unwinding of DNA molecules.

Hans J. Reich gave invited lectures in Alberta, Canada, Seattle, WA, and several other university centers, besides participating in the Gordon Research Conference at New Hampton, New Hampshire in July 1974. He is interested in stereochemical studies of high valent organoselenium compounds and chlororium ions and holds an Alfred P. Sloan Fellowship for 1975-77.

John L. Schrag has just been promoted from Assistant to Associate Professor. His activities transcend teaching in the Analytical Chemistry Division and research in the rheology program. During the first semester 1974-75, he was on research leave on a Sloan Fellowship, carrying out his work on campus and participating in the seminar and research activities of the rheology group.

Bassam Z. Shakhashiri has given numerous lectures in various parts of the United States on subjects associated with the teaching of chemistry. In June 1974, he participated in the International Conference on Computers in Chemical Education at Kingston, Ontario. He is editor of a book, "Self Paced Instruction in Chemistry" and, with associated authors, of the "Handbook for Chemistry Assistants," both published by the Chemical Education Publishing Company. With his assistants, he has prepared twenty-five audio tutorial chemistry lessons for use in the UW Freshman Chemistry Study Room and twenty-five black-and-white and colored chemistry video tapes.

James W. Taylor presented an invited paper at the Fifth International Symposium on Molecular Beams in Nice, France in April 1975. His lecture activities include appearances before the Brookhaven National Laboratories and in Hamburg, Germany before the German Society for Physics and the Desy Synchrotron Group.

Paul M. Treichel, Jr. spent Jan.-Aug. 1975 on sabbatical leave at the University of Natal, Durban, South Africa. While in Natal, Professor Treichel collaborated with staff members there in several research projects. He also lectured in Durban and at various other universities throughout the coun-

try. He and his family had the opportunity to travel extensively during his stay; particularly interesting trips were to Capetown and the Kruger Park.

Barry M. Trost has given numerous invited lectures in the United States, Canada, and in West Germany. These papers dealt with synthetic approaches to organic molecules and the chemistry of various natural products such as, steroids and prostaglandins. He has been a Camille and Henry Dreyfus Teacher Scholar during the period 1970-1975 and was recently selected for an H. I. Romnes Faculty Fellowship. Prof. Trost is one of 11 young faculty members selected for the first issuance of the Romnes Award. The fellowships are named after the late H. I. Romnes who was chairman of American Telephone and Telegraph Company and former president of the WARF trustees. Each of the awards carries a \$25,000 fund grant to be used in pursuit of the Fellows' research activities. The fellowships are administered by the Graduate School Research Committee from funds provided by WARF. Barry recently saw publication of the book, *Sulfur Ylides—Emerging Synthetic Intermediates*, which he coauthored with L. Melvin, by Academic Press.

Worth E. Vaughan was an invited participant at the Gordon Conference on Dielectric Phenomena held in July 1974 at Andover, NH. His research involves studies in the microwave region. Worth is editor of the *Digest of Literature on Dielectrics*. He is also the catalyst, with Dan Cornwell, of the Annual Canoe Outing which took place this year on May 21-23 on the St. Croix River with 13 participants and less mishaps than usual. Further information will be supplied on request.

Edwin Vedejs has given invited papers before various ACS groups around the country in connection with his research on carbocyclic synthesis. He has been particularly interested in thermal rearrangement mechanisms of $(CH)_{10}$ and $(CH)_{12}$ hydrocarbons.

John P. Walters gave an invited paper at the Gordon Conference at New Hampshire and spoke before several departments of chemistry and at the Pacific Conference on Chemistry and Spectroscopy. He is particularly interested in control of types of radiation entitled from atmosphere-pressure discharges.

(Continued on page 9, col. 1)

Faculty . . .

(Continued from page 8)

Robert C. West was on leave during the spring semester, studying the ethical and human implications of nuclear power under a grant from the Knapp Foundation. Much of his study was carried out in residence at the University of California at San Diego, but he travelled widely to visit nuclear laboratories and installations, including Oak Ridge, Argonne, the National Reactor Test Station in Idaho and a number of nuclear power plants. To get both sides of the nuclear power controversy he also interviewed several of the influential groups opposed to nuclear power. His interest in nuclear power arose mainly from his course for nonscience students, Chemistry for Mankind. As a result of his study he has been frequently called on to lecture in Madison and elsewhere on "The Ethics of Nuclear Power". During 1975 Bob also serves as Chairman of the Division of Chemical Education. The January 6 number of CEN, p. 15, carried an account of the "Successful Synthesis Deltic Acid" in Professor West's laboratory by David Eggerding. Deltic acid would correspond to cyclopropane with hydroxyl groups on each of the double bonded carbon atoms and a ketonic oxygen on the third carbon atom. Bob was honored in the spring of 1974 by Distinguished Teaching Citation along with five other members of the University Faculty.

Howard W. Whitlock, Jr. is pursuing active research in bio-organic chemistry, such as application of computing theory to organic chemistry; models of enzymatic reactions and the chemistry and biochemistry of porphyrins. The principal thrust of his research is toward the understanding of the organic chemistry of transcription, the process by which messenger RNA is made via copying of DNA by the enzyme DNA dependent RNA polymerase.

A. L. Wilds continues his research interest in the mechanisms of the Wolff rearrangement and the total synthesis of steroids.

John E. Willard presented two papers in July 1974 at Seattle, WA at the International Association for Radiation Research. He continues his active research program in hot atom and radiation chemistry.

R. Claude Woods participated in the Annual Molecular Spectroscopy Symposium at Ohio State University in June 1974. Claude is investigating application of microwave spectroscopy to unstable species such as free radicals and excited electronic states.

John C. Wright was a participant in the Eleventh Rare Earth Research Conference at Traverse City, MO in October 1974 and in the Midwest University's Analytical Chemistry Conference at St. Paul a month later. He is interested in the use of lasers in the study of rare earth crystals.

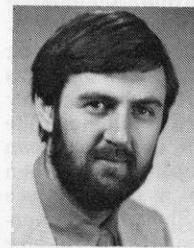
Hyuk Yu has given papers in Osaka, Seoul, Strasbourg, and Stockholm, during the past year. His research interest is in membrane fluidity and photoreceptor function. In summer of 1974, he served as Consultant to the Korean Institute of Science and Technology in Seoul.

Howard E. Zimmerman was recently appointed to the newly created Arthur Cope Chair of Chemistry. This distinguished service chair is named in honor of the late Arthur C. Cope who took his PhD in 1932 with Professor McElvain. Cope was chairman of the chemistry department at MIT for many years and also served as President of the ACS. He also made many important contributions to organic chemistry before his untimely death in 1966.

Dr. Zimmerman includes among the other activities on his very busy schedule, the Chairmanship of the Recruiting Brochure Committee which is responsible for the recruiting of graduate students and the preparation of the departmental brochure which can be sent to students who make inquiry about the program at Wisconsin. The brochure has been published annually for the past three years and includes a description of the UW-Madison Chemistry Department, particular attention being given to the research programs in the various divisions. There is information on the nature of financial support and the brochure contains one-page items about the various professors, including their pictures, and the nature of their research program. Howard has also been giving numerous lectures on photochemistry, and high speed chromatography. Between July and October 1974, he was in Europe where he gave invited colloquia in

Germany, Holland, and France. In October 1974 he was U of Rochester's Distinguished Visiting Lecturer. In March 1975, he gave the Dains Lectures at the University of Kansas and this past summer has been an invited participant in the International Organic Symposium.

SANCTUARY JOINS FACULTY



Bryan C. Sanctuary joined the faculty of the Theoretical Chemistry Institute and physical division of the Chemistry Department in autumn 1974, coming

from the Kammerling Onnes Laboratory in the University of Leiden. Born in Yorkshire, England in 1945, he moved with his parents to Canada in 1954. He took a BSc degree at the University of British Columbia in Vancouver in 1967 and, under the direction of Prof. **Robert F. Snider** (PhD '58), a former student of Prof. Curtiss, he received the PhD at UBC four years later.

In 1967 he was married to Mingy, a Canadian born Chinese, whose home was Vancouver. They have two sons, Mark Clifford—now three, and Colin Stuart—who recently passed his first birthday.

Bryan's research interests lie in the realm of theory of molecular interactions, specifically in the theoretical interpretation of phenomena associated with gaseous systems composed of non-spherical molecules. During the past year he was invited speaker at a theoretical chemistry conference in Canada and participated in meetings in both Europe and North America.

While in Leiden he was the Resident Theoretician in the Experimental Molecular Physics group of Professor J. J. M. Beenakker. In part, his strong belief in the necessity for cooperation between theory and experiment came from his pleasant association with the Dutch Scientists. In his work on kinetic theory of non-spherical molecules his theoretical approaches have been applied to NMR, transport phenomena, and collisional interpretations of these.

This 'n' That . . .

(Continued from page 3)

Badger Chemists of that period as serving for a time as librarian for the Chemistry Department. After settling at Falls Church, Ann found no market for chemistry librarians, and prepared herself for work as a school librarian, serving for a number of years as librarian in the local schools. Her daughter Lisa is a high school student and Becky is in the lower grades. Ann reports deep interest in the articles on Tally and Harold Schimming and remembers with deep gratitude Harold's capacity in cutting red tape to obtain new screens and new lighting for the chemistry library in the old building. She remembers Tally's daughter Joan from grade school period when Joan's talents as a dancer were already obvious. She reports herself an eager reader of *Badger Chemist*, and recalls her service as former editorial assistant while Dr. Schuette was active as editor. Prior to taking his position at Philadelphia College, John V. Bergen was director of the *National Formulary* and chairman of the National Formulary Board.

R. Byron Bird, PhD '50, was recently honored by the Society of Rheology which named him its 1974 Bingham Medalist and was further honored by the American Institute of Chemical Engineering, which gave him its W. K. Lewis award for notable contributions to chemical engineering education. Dr. Bird is Vilas Research Professor of Chemical Engineering at UW-Madison. He is a recent collaborator with Edward E. Daub and Nobuo Inoue of *Comprehending Technical Japanese*, just published by UW Press. The book is a special reader to help scientists and engineers translate technical Japanese and is based on an extensive character frequency count for physics, chemistry and biology. Ed Daub, a Wisconsin PhD in history of science and now professor of general engineering at UW-Madison, is the brother of **Guido Daub**, BS '44, PhD '49.

John R. Blickensderfer, BA '70, received his PhD in organometallic chemistry at UCLA under Prof. Herbert D. Kaesz. He is presently employed in the research development department at Union Carbide Corp., Plastics and Chemicals, Boundbrook, NJ.

Professor Bender called attention to the picture of **Hans J. Borchardt**, PhD '56, in the winter '75

issue of *duPont Innovation*. The picture illustrates an article by Borchardt on new findings regarding reactions of fluorocarbon refrigerants. Borchardt was a student of the late Professor Daniels.

Abner Brenner, MS '30, (PhD Maryland) received the first Award of the Electrochemical Society in 1974. Presentation was made in San Francisco on May 14, 1974, at the annual meeting of the Society. Dr. Brenner's award address, "Retrospective and Retirement of an Electrochemist" was presented at the meeting and published in May '75 issue of *Journal of the Electrochemical Society*. In his address he stressed the importance of pursuing unorthodox ideas in electrochemical research, making reference to his early acquaintance with such attitudes in the laboratory of Louis Kahlenberg. Although never accepting Kahlenberg's disbelief in ions, Brenner stated "I feel that his ideas had merit."

Frederick L. Brown, PhD '21, sent his usual contribution to the *Badger Chemist* last September together with a letter which started

"So you want news with your disaster relief!" And then contributed the following: Dr. Brown became a 50 year member of the ACS in 1964 after joining the Society in 1913 when he was a freshman at Cornell U. He began abstracting for *Chemical Abstracts* in 1920 and was a Section Editor on Surface Chemistry and Colloids since 1929. He was recently made Section Editor Emeritus. He writes of seeing Prof. Schuette occasionally at the Attic Angel Nursing Home where he frequently conducts worship service as a lay reader for Grace Church. His son Cornelius (PhD Wisconsin in physics) is professor of nuclear physics at Notre Dame.

Janet Weber Bruhn, BS '33, sends her contribution from 5418 Lake Mendota Drive, Madison, but without news of her activities.

Kenneth Burdette, BS '68, has completed his PhD in organic under Dr. Swentor at Ohio State and is now employed at Dow Chemical Company in Midland. The editor extends many thanks to Ken's mother for forwarding the above information and forwarding the

(Continued on page 14, col. 3)

Frank Olson and the CIA

More than two decades after his death by suicide in New York City, Frank Rudolph Olson, BA '31, was in the national news as a consequence of Central Intelligence Agency activities. The Rockefeller Committee's report on the CIA called attention to an anonymous biochemist with the Army's biological warfare center at Fort Dietrich, MD who was administered LSD without being aware of the action. CIA agents had slipped LSD into an after dinner drink; the subject was informed twenty minutes later that he had been drugged. The Rockefeller Report then indicated that this man had been taken to New York City for psychiatric treatment and had jumped from a tenth floor window.

The revelation in the Rockefeller Commission Report alerted the family of Frank Olson that this must have been their husband and father. The Rockefeller Commission staff acknowledged that the man had indeed been Frank Olson. Mrs. Olson had been puzzled and alarmed by his moods of self-doubt and self-recrimination, but he failed to inform his wife regarding the nature of his problem and she attributed his difficulty to the se-

crecy of his work. A few days later he was taken to New York to see a psychiatrist and while in New York he jumped from the tenth floor window of his hotel in the presence of one of the government men who had taken him to New York.

Upon learning the nature of the circumstances which led to the suicide, the wife and children of Frank Olson threatened a heavy suit for damages against the CIA, but a later report indicated that as a result of President Ford's apology they might drop the suit.

Frank Olson was born in Hurley, Wisconsin in 1910. He received the BA in chemistry at Madison in 1931, and later took his MS in agricultural chemistry in '36 and the PhD in biochemistry and bacteriology in '41. His PhD research dealt with nitrogen fixation. Between 1938 and 1942 he was associated with the agronomy and botany faculties at Purdue. He joined the Chemical Warfare Service in 1942 and became associated with the biological warfare division of the Army at Camp Dietrich in 1944. In 1940 he was married to a classmate from Rhinelander. At the time of his death he left three small children, Lisa, Nils, and Eric.

In Memoriam

Bernard J. Babler, BS '35, MS '36. Death reported in the *Hexagon* of Alpha Chi Sigma, winter 1975. According to our most recent information, Babler was at University of Illinois, Navy Pier.

Grover W. Bellile, Jr., BS '40, died April 8, 1974 as the result of a heart attack. At the time of his death he was president of Beco-Pak, Inc. of St. Paul, having served in that position since 1967. Prior to that he was director of Quality Control for Rayette Division of Faberge, Inc. of St. Paul. He is survived by his wife Norma, a son Grover III, and a daughter, Karen Uecker, all of the St. Paul area.

William C. Child, PhD '24, died in May, 1974 in Westfield, New Jersey at age 78. He was for many years associated with Esso Standard Oil, but has been retired since 1958. Following the beginning of his retirement he began teaching General Chemistry at Fairleigh Dickinson University, which position he held until 1964. He was remembered by his classmates in 1924 as the chap who within thirty days acquired a wife, a doctorate, and a job. A son, William C., Jr., PhD '55, has been a faculty member at Carleton College since finishing up his PhD with Professor Bender.

Horace G. Deming, PhD '24, died sometime in the last several years at age 85. He taught chemistry for 42 years at the University of Nebraska, where he was the author of numerous textbooks and research papers. At the time of his death he left a manuscript on the subject of water, which has been edited and brought into print under the title "Water, the Fountain of Opportunity." A son, Phillip Deming, received his PhD in the department in 1943.

F. F. (Duke) Diwoky, PhD '30, died in Brownsville, TX in May, 1974 following a lengthy illness according to Charles Bailey who had looked forward to a visit with him on his recent Texas trip.

Ada R. Griswold, BA '12, of West Salem, Wisconsin, had her last *Badger Chemist* returned with the stamp, "Deceased". We have no further information about her death.

Angus J. Johnson, BS '13, of Evanston, Illinois. Death reported in the winter '75 issue of *Hexagon*.

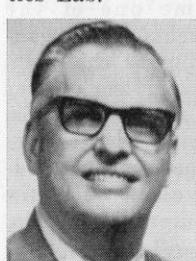
Neil J. Johnson, BS '31, MS '34, died on October 14, 1974 in Parma, Ohio. Neil was retired from the Carbon Products Division of Union Carbide.

Marcia King, 18, died in Colorado in June 1975 in an auto accident. She was the only daughter of Edward and Joy King and was born in Madison while Dr. King was a member of the chemistry faculty. The Kings have been in Boulder since 1963 when Dr. King became a member of the U of Colorado faculty.

Ellis Llewellyn Krause, MA '13. His death was reported in *Wisconsin Alumnus* in March 1975. He was retired from Marietta College since 1955 and lived in Ripon, WI. He and a brother, Elwyn B., were both members of the chemistry department at Marietta for many years and both received honorary DSc degrees from the college on retirement. Ellis' death was erroneously reported in BC 18 and corrected in BC 19.

Risto Peter Lappala, BS '32, of Houston, Texas died recently. He was for many years associated with the Bjorksten Research Laboratories in Madison, and, after 1960, with these laboratories in Houston, Texas. He was also vice-president of Sporad in Houston and a member of Independent Consulting Chemists from 1966 until the time of his death.

Frank Telford McClure, PhD '42, died on October 18, 1973. Frank was Deputy Director of the Applied Physics Lab at Johns Hopkins University. During World War II he was in charge of ballistics design at the Allegheny Ballistics Lab.



C. Keith McLane, BS '43, MS '44, (PhD Harvard '49), passed away on June 14, 1974. He was Professor of Aerospace Engineering Sciences at University of Colorado since 1968. While there he had served as chairman of the faculty council in 1972-73 and had just been the elected President of the Colorado Chapter of the American Association of University

Professors. Before joining the Colorado faculty, Keith headed the plasma physics research at National Bureau of Standards. From 1948-1952 he was assistant professor of physics at Wisconsin and from 1953 to 1960 was associated with the Linde Company, a division of Union Carbide. A memorial booklet, published in his honor contains the following statements by Mahinder Uberoi, Chairman of the Department of Aerospace Engineering. "He was of great assistance in achieving academic excellence in the department and in interpreting our work to nonprofessionals. He always looked at the university from a broader, interdisciplinary view. He taught a course on musical acoustics for the college of music, and joined me in all the all-university seminar on environment and public policy."

Elmer "Bud" Sneider, BS '22, died in June 1973 according to a note from Blair MacQueen. Bud was married to Anne Alexander, BS '23. The MacQueens and Sneider's attended Anne's 50th class reunion in Madison shortly before Bud died. Upon graduation from the University, Bud joined a dairy in Duluth but soon moved to Sioux Falls, SD where he acquired an interest in a Bridgeman-Russell dairy which was later absorbed by Foremost. At that point, Bud made his move to Wausau, Wisconsin where he took over the Allstar dairy. He and his family also started a chain of convenience stores which grew to a quite substantial size. A son is now involved in both dairy and the convenience stores. Anne continues to live in Wausau, but spends winters in Mexico, as she and her husband have done for many years.

Jane Zimmerman, 46, the wife of Professor Howard E. Zimmerman died on January 21, 1975 following a lengthy illness. Born in Stamford, Connecticut, she married Howard in June 1950 and had been a resident of Madison since 1960 when he left Northwestern U to join the UW department. The Zimmers have three sons, Robert, Steven, and James, all in public schools in Madison. Jane was very active in the League of Women Voters and the Madison Area Retardation Center while she lived in Madison.

ED SMISSMAN MEMORIALIZED

The last *Badger Chemist* received news of the untimely death of **Edward E. Smissman**, PhD '52, in time to be included in the "In Memoriam" just as the issue was going to press. Now, through the assistance of **Gary Grunewald**, PhD '66, it is possible to report further on the esteem with which he was held in the School of Pharmacy at the University of Kansas where Ed was University Distinguished Professor and Chairman of Medicinal Chemistry from 1964. Gary supplied us, through Grace Legler, a brochure which had been prepared by some of Ed's former students to support his nomination for the ACS Medical Chemistry Award. Gary wrote "things will never be the same here, but Ed left a tremendous momentum that seems to be carrying forward. That perhaps, more than anything, is a real tribute to what he stood for and what he did . . . that spirit, which he alone built, and which now spans a number of related departments, will probably provide the best memorial we could think of."

Gary further reports that a memorial fund has been established at the University of Kansas. Contributions may be sent to the Edward E. Smissman Memorial Fund, University of Kansas Endowment Association, University of Kansas, Lawrence, KS 66045. A committee headed by **Takeru Higuchi**, PhD '43, will arrange with Mrs. Smissman's approval, suitable memorial efforts to perpetuate Ed's educational philosophy.

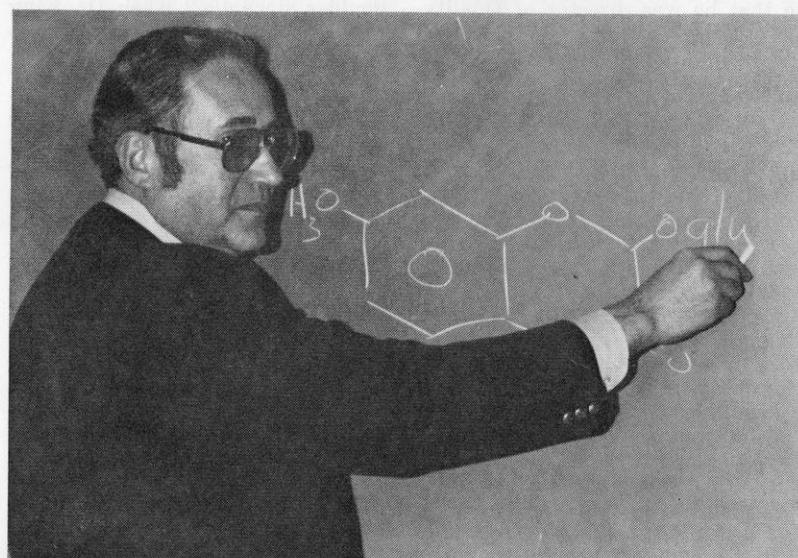
Edward Smissman was born on July 29, 1925 in East St. Louis, IL. He received his BS in chemistry from University of Illinois in 1948, followed by the PhD at Wisconsin where he took his degree in organic. Between 1952 and '55, he was a faculty member at the School of Pharmacy, University of Illinois after which he moved to that discipline at Wisconsin. He served as Chairman of the Division of Medicinal Chemistry, ACS, in 1959-60 and was also very active through the years in the American Association of Colleges of Pharmacy.

During his active research career, Ed was author of 105 research publications, spanning the

area of natural products and including investigation of the chemistry of the antibiotics cycloserine and streptolin, the examination of biosynthetic pathways, including the total syntheses of shikimic and quinic acid, the isolation and synthesis of insect resistant factors from corn plants, studies of insect growth inhibitors, the synthesis of Royal Jelly Acid and chemical constituents of the confused flour beetle and the large

her MBA degree. She already holds a law degree from the University of Kansas and hopes eventually to teach business law by combining the MBA degree with her law background. She returned to Madison on October 31, 1974 to receive an alumni award given posthumously to Ed by the UW School of Pharmacy, the presentation being made by Dean **David Perlman**, BA '41 (PhD Biochemistry '45).

Just before going to press the editor received from **Eugene L. Woroch**, PhD '48, a release calling



milk weed bug. He studied conformational aspects of antiepileptics, cholinergics, analgetics, beta-phenethanolamines, catecholamines, and phenethylamines as well as other fields of conformational problems. His research efforts were characterized by the breadth of his interests.

Under his leadership, the Department of Medicinal Chemistry at Kansas became one of the strongest departments in the country. Besides serving as chairman, he was research supervisor of over 70 PhD students, 20 postdoctorals, and 12 MS students. His achievements had international recognition and he served as visiting professor and lecturer in Australia, Japan and Israel.

In 1951, Ed married Claire J. Feir. She has been teaching at Baker University in Baldwin, KS and as of last year was enrolled in the School of Business at the University of Kansas, working on

attention to a newly created award in Medicinal Chemistry to be known as the Edward E. Smissman-Bristol Laboratories Award. This award is being made for the first time August 27, 1975 at the Medicinal Chemistry Division—Edward E. Smissman Symposium at the ACS meeting in Chicago. The recipient is Corwin H. Hamsch, Carnegie Professor at Pomona College, Claremont, CA. Professor Hamsch took his bachelor's degree in 1940 and his PhD at New York University in 1944. His research activities at Pomona College have been directed toward correlation of biological activity with chemical structure, an approach leading to a better understanding of problems of drug design and drug action. The award consists of a scroll and an honorarium of \$1000. Professor Hamsch's award address is entitled, "Structure of Medicinal Chemistry." As the title indicates the award was established by the Bristol Laboratories at Syracuse, NY in honor of Edward L. Smissman.

NEWS OF FORMER FACULTY: EMERITI AND OTHERS

M. L. Holt was evidently away at the time the editor sought news but it is possible to report that he turns up at the Building frequently and is his usual vigorous self. Les continues to play golf and ski and claims that he enjoys retirement.

In responding to a request for information about his activities **V. W. Meloche** sent the following note. "From many sources we learn of the value of the magazine to both residents and distant alumni. . . . We seem to continue well and busy. I have stopped any formal consulting, but find occasion to help my old friends now and then. If the Federal Food Administration finds any more petro-chlorinated compounds in foods we will have to quit eating. We like a good pike now and then. When one survives the good old age of 79 one does not worry too much about stretching the string. Our good wishes to all."

Henry A. Schuette celebrated his 90th birthday last January 11. He continues to enjoy hearing about activities of Badger Chemists and frequently passes on bits of news picked up in CEN and *Science*. Mrs. Schuette continues to live in the beautiful home they built in the early thirties on the top of Maple Bluff overlooking Lake Mendota (719 Farwell Dr.). (The excellence of the alumni records created by Dr. Schuette while he was editor of *Badger Chemist* continues to be a source of amazement as well as usefulness. **Ed.**)

An effort to be brought up-to-date on **C. Harvey Sorum's** activities has been a failure. We will plan to have a full report next year. The Sorums continue to live at their longtime home at 938 University Bay Drive but the view has been changing as a result of the development of the new Medical School complex.

John W. Williams keeps busy with numerous professional activities and is seen frequently at the Chemistry Building during the months between spring and fall. He and Mrs. Williams spend their winters in Pasadena at the Athenaeum, the faculty club on the Cal Tech campus. Jack recently published a biography of Peter Debye in *Biog. Memoirs*, 75, 23-68 (1975) of the National Academy

of Sciences; a two-part history of the ultracentrifuge in *Fractures*, Vol. 1974, no.'s 1 and 2, published by Spinco, Division of Beckman Instruments, Inc.; and a book, *Fundamentals of Ultracentrifugal Analysis*, in collaboration with Hiroshi Fujita of the U of Osaka who spent three years of postdoctoral time at Wisconsin. At the moment he is at work on, *Self Association Reactions*, in collaboration with **Richard Deonier**, PhD '70, and H. Kim who did his doctoral work at Clark U before post-doing with the late Lew Gosting at Wisconsin.

Former Faculty

Larry A. Haskin, member of the departmental faculty until 2 years ago, now with NASA in Houston, sent congratulations on another fine issue of *Badger Chemist* and reports that "The article on Tally's retirement is the best I have ever read in any *Badger Chemist*, not to mention all the rest of the chemical literature."

Frank Andrews, a member of the Theoretical Chemistry Institute from 1964 to 1967, returned to the campus last summer to give a special chemical education seminar. His talk dealt with "The evils of the lecture system, the grading system, and the University system in general, with comments on how one professor tries to fight these evils with little success but with considerable spirit of adventure." Frank is now a professor at the University of California, Santa Cruz. He is the son of **Arthur Clinton Andrews**, PhD '38.

Charles Cooper, member of the analytical division faculty around 1950, was a visitor in Madison last January. For several years he has been on leave from his position with Norco in Canada to serve as a UN advisor in Chile where he is involved in the creation of a laboratory for metallurgical research.

News of Faculty Widows

Mrs. Homer Adkins is now making her home with daughter Nance Dailey at 1638 109th Street, Bellevue, Washington 98004. Nance writes that her mother has enjoyed

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McELVAIN BEQUEST

The Samuel M. McElvain Memorial Fund was recently established as part of the will of Professor McElvain. This generous bequest is somewhat unique in the history of the University of Wisconsin Foundation in that it was Professor McElvain's stipulated desire that the fund be completely depleted in approximately twenty years. His intent in doing so was that the present department, which still contains many of his colleagues whom he knew as personal friends, be the primary recipient of the estate. It is the first



S. M. McELVAIN

time the Foundation was called upon to deal with a contribution which was not to be established in perpetuity and where both the principal and interest were accessible. A further aspect of the bequest from information received from Mrs. McElvain was that primary emphasis on its utilization be oriented toward those projects not readily fundable through normal University channels. Special attention is to be given to people and the maintenance of their professional stature rather than equipment, instruments, or supplies. A special committee of the department, annually appointed by the Chairman from the membership of the research divisions of the department, makes recommendations for expenditures to the Executive Committee of the department.

KEMMERER REMEMBERED, WITH SOME REFLECTIONS ON LIMNOLOGY

Examination of a recent issue of the Wisconsin Academy *Tri-Forium* revealed the names of several faculty members doing pioneering work in limnology and included George Kemmerer, BA '04, MA '06, who was Assistant Professor of Analytical Chemistry in the 1920's. The article called attention to republication, in *Benchmark Papers in Ecology*, of a paper which had been coauthored by Professors Juday, Birge, Kemmerer, and Robinson and originally appeared in Vol. 23, (1927) of the *Transactions of the Wisconsin Academy*. Juday and Birge received worldwide attention for their work on lake studies. Members of the chemistry department were frequently associated with them in analytical studies, both in Madison where Lake Mendota became noted as the most studied lake in the world, and at Trout Lake where Juday was director of a limnology laboratory created in 1925. (Rumor has it that fishing was excellent at Trout Lake. At any rate, more than one talented quant student accompanied his professor for a summer there.)

Edward Asahel Birge (1851-1950) joined the Wisconsin biology faculty in 1879, became the first dean of the College of Letters and Science in 1891, and served as President of the University (1918-25). He began studies of water fleas early in his university career. His investigation of distribution of the fleas at different levels in fresh water lakes led to the recognition of stratification of lake waters. His studies quickly became

broadened to deal with conditions of life in lakes, a subject he pursued even in his nineties.

Chancey Juday (1871-1944) was biologist for the Wisconsin Geological and Natural History Survey in 1900-01, and 1905-31, and in the period 1908-31 was Lecturer at the UW. In 1931 he was made Professor of Limnology, a recognition of the science which he had helped to create. Chemistry students of the late thirties and early forties whose work took place in the west wing of Old Chemistry may recall Juday's laboratory on the fourth floor of the part added late in the thirties. Sight of the laboratory frequently raised the question, "What is limnology?" and "What does it have to do with chemistry?" Answers were never very knowledgeable and the laboratory remained a mystery to most. In truth, limnology represented a new specialty of interdisciplinary character—studies of freshwater lakes. Juday's research transcended biology and chemistry—he was interested in the chemistry of lake waters, particularly gases; the productivity of lake waters; the growth of fish as related to water conditions.



George Kemmerer, after taking two Wisconsin degrees in chemistry with Victor Lenher, turned to Pennsylvania for his PhD (in '08) with Lenher's mentor,

Edgar Fahs Smith. After professorships at New Mexico School of Mines, and Carroll College, Kemmerer returned to the UW as assistant professor of chemistry in 1920. Here he was associated with the analytical program and became involved in the Birge-Juday studies. In 1926, following the untimely death of Professor Lenher, he took over responsibility for the sophomore quant course. Kemmerer himself suffered an untimely death of a heart attack in October 1928 and Dr. V. W. Meloche took over his teaching responsibilities on very short notice. At one time, Dr. Meloche himself was deeply involved in the lake studies.

The Robinson mentioned as co-author of the paper is Rex Julian Robinson, MA '27, PhD '29, who

joined the faculty at U of Washington directly out of his PhD and spent his entire career there. His work has been in analytical and has been directed toward colorimetric and microanalytical methods of analysis, including thermogravimetry, fluorimetry, compleximetry and spectrophotometric titrations. His dissertation, dealing with determination of nitrogen, phosphorus, and silicon in lake waters evidently directed his activities toward water analysis since he has had association with the oceanographic labs in Seattle.

As a footnote, it should be mentioned that Chancey Juday's son Richard is a Badger Chemist. After receiving his BA at Harvard in 1939, Richard Juday returned to Madison where he took his PhD in organic chemistry in 1943. He is now professor of chemistry at the University of Montana at Missoula. He continues in the research area of steroids which he began at Wisconsin.

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Badger Chemist while Ken was in Graduate School and for her contributions toward support of the Newsletter.

Howard Burkett, PhD '42, continues his longtime professorship at DePauw University in Greencastle, IN. His home address is 700 Shadow Lawn Avenue.

John Buschek, PhD '73, is in the second year of his post-doc with Professor Dewar at Texas.

James Carnahan, sent the issue of *Delaware Chemist* quoted elsewhere in this issue from 709 Liftwood Rd., Wilmington, DE 19803. Jim was BS '42, MS '43, PhD '46. (Ed. Note: We appreciate items of this sort from alums and would welcome more of them.)

Albert S. Carter, PhD '27, sends the editor a cordial invitation to visit the east coast of Florida and stop by the Carters. He writes "I do not believe I have met you in person, but should like to correct all of that. The last time I visited the University campus was before my major professor, Dr. Richard Fischer, retired."

Sang Up Choi, postdoctoral research student with Dr. Willard 1957-58, is now serving as vice

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receiving the *Badger Chemist* and sends thanks for sending copies her way. Mrs. Adkins now has three great grandchildren.

Mrs. Farrington Daniels recently sold the family home in Nakoma and has taken an apartment in the newly constructed Retirement Tower associated with the Attic Angel Nursing Home at 602 N. Segoe Road. She continues her work on biography of Dr. Daniels.

Mrs. J. Howard Mathews, as reported last year, is at the Attic Angel Nursing Home where the Editor finds her happy and cheerful when he stops to visit Professor Schuette.

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counsel of Sogang University in Seoul, Korea.

Bruce R. Clark, PhD '74, is employed at Oak Ridge National Laboratory.

Robert E. Conary, PhD '38, reports that he is enjoying his work in Belgium both because of Belgium itself and because they are able to visit a half dozen or so other interesting countries within a few hours. Bob's address is Mortelputstraat 5, B-9821 Afsnee, Belgium.

Eugene Corey, PhD '63, is with the Department of Chemistry at University of Missouri-St. Louis.

Harriet P. Perri Corrick, MS '70, is a specialist in the School of Pharmacy at UW-Madison.

Milford A. Cowley, PhD '33, enjoyed the article about Odell Taliaferro and writes, "I have warm feelings for him as a person—we shared a research laboratory in 1932-33." Milford is recently retired from University of Wisconsin-La Crosse where he was Chairman of the Chemistry Department for many years.

Paul C. Cross, PhD '32, passed on to Professor Willard for his perusal a booklet of letters which Paul received at the time he was given the Pittsburgh Award of the ACS, together with an informal manuscript entitled, *Memoirs*. John kindly shared these items with some of us before sending them back to Paul. The *Memoirs* manuscript is an autobiographical piece which Paul has written for his grandchildren and which deals with various activities during his career, including a fairly lengthy chapter of impressions as a graduate student at Wisconsin. The chapter was particularly fascinating since it called attention to many faculty members and graduate students toward the end of the 20's. Paul is now retired from his position as trustee and special assistant at Carnegie-Mellon University and lives at 1438 Highland Dr., Solana Beach, CA 92075.

Guido H. Daub, BS '44, PhD '49, who is chairman of the chemistry department at the University of New Mexico reports that his wife, **Katherine Powell**, MA '48, is no longer teaching in the public schools; son Bill is completing his third year as a graduate student in chemistry at Stanford under Eugene Van Tamelen; daughter

Betsy completed her BA in chemistry at Pomona in June '74 and is presently on a Fulbright Scholarship in Munich where she is taking graduate courses and doing research under Rolf Huisgen; while son John is in his sophomore year at Pomona where he majors in chemistry. Guido wonders about everyone going into chemistry and speculates that it is "Probably because they have seen what a soft job their old man has had these many years."

William R. Davie, PhD '51, went with Pittsburgh Coke and Chemical Company upon graduation and was with them until 1967 when they were bought out by U.S. Steel. He has been in the U.S. Steel Laboratories in Monroeville, PA since then, working on problems involving coatings, plasticizers, coal carbonation, pollution, and so on. Still being a farmer at heart he has become involved in fruit and nut grower associations and is collecting, and raising hundreds of varieties of fruits and nuts, having probably one of the most extensive private collections in the country.

Richard S. Demallie, Jr., MS '61, sent his contribution from 18 Landmark Lane, Pittsford, NY 14534, but sent no news about himself.

Carl Djerassi, PhD '45, recently added the Perkin Medal to his list of prestigious awards. The award, based on outstanding achievement



in applied chemistry in the U.S., was based on his pioneering work on oral contraceptives. Particularly significant among his earlier awards are the ACS Award in Pure Chemistry (1958), the Fritzsche Award (1960), and the National Medal of Science (1973). Carl is professor of chemistry at Stanford besides being chief executive officer of Zeocon Corp. of Palo Alto.

Robert J. Doedens, PhD '65, recently reported that his copies of *Badger Chemist* are still being sent to a nine year old address. He is presently Associate Professor of Chemistry at University of California-Irvine.

Dietrich Döpp, sends an address change from Germany where he is professor in Kaiserlautern. He was formerly at the Institut für Organische Chemie at the University of Karlsruhe and in 1966-67

was Research Associate with Professor Zimmerman.

Leslie E. Downs, MS '32, was disappointed in missing out on a look at Professor Haskin's moon rock samples. Leslie has been retired from his position at the Forest Products Laboratory since 1959 and continues to enjoy life at his longtime home at 418 Cherokee Dr., Madison.

Luis Echegoyen, post-doc with Professor Nelsen, has accepted a position with Union Carbide at Rahway, NJ.

John O. Edwards, PhD '50, sent in a contribution without news. Presumably, he is still at Brown University.

Carl Eggert, BS '31, writes that he wishes that the class of '31 would be more deeply involved in news items. Carl retired from the Borden Company in January 1974 and is devoting more time to his hobbies such as frequent trips to his 40 acres of timber in northern Wisconsin. He promises himself that he will visit the UW campus again, but so far it is just an empty promise. (We would be happy to give you an escorted tour of the new chemistry facilities, just as we would welcome other Badger Chemists who have been away for many years—Ed.)

Jack E. Erickson, BS '68, is chemist for Federal Cartridge Association. His address is: 2710 Ninth Avenue, Anoka, MN. He writes, "Keep those *Badger Chemists* coming—we enjoy them."

Harold F. Fenrick, PhD '66, spent the summer of 1975 in Madison where he carried out further research on radiation chemistry, the field which he had pursued while a member of Professor Willard's group. This summer enabled him to take advantage of the instrumentation in the Madison department. Hal is a member of the faculty at UW-Platteville.

Richard Firestone, PhD '54, who is Professor of Chemistry at Ohio State University, has been elected Vice-Chairman of the Gordon Research Conference on Radiation Chemistry for 1976 and Chairman for 1977.

Sallie A. Fisher responded to the recognition in the last *Badger Chemist*, "We appreciate the very nice write-ups on Marvin (Skoustad PhD '49) and myself. . . . Do you realize that not only did Mel train the present chairman of the largest committee on standardiza-

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tion of water methods, but the first vice-chairman (me) as well. In addition, Dr. Fred Kawahara, PhD '49, leader of our section on methods for identification of oils in water, was one of Dr. Schuette's men at the same time I was, and I can't count the number of members who have told me they work for or with former classmates of mine". She notes disappointingly however that she has been disowned by someone and hopes that Mel will still be willing to admit that he had one academic daughter. Norris Hall supervised her BS in '45, Professor Schuette her MS in '46 and Professor Meloche her PhD in '49. Sallie further reports that she saw Peggy Hurst, PhD '50, for the first time in years at Atlantic City. Peggy continues in her faculty position at Bowling Green. It is a pleasure to further report that on January 21, 1975 in Fort Lauderdale, FL, Sallie was granted the 1975 Max Hecht Award by Committee D-19 on water, of the American Society for Testing and Materials. The award is presented annually to a member of Committee D-19 of at least three years standing who has performed some outstanding work on the committee in the field of water. Sallie is vice-president of Puricons, Inc. of Burwyn, PA.

E. M. Fitchett, BS '24, drops in at the Chemistry Department frequently from his home at 1363 Camp Leonard Road, McFarland, WI. Ed recently brought a much-yellowed envelope which contained a printed analysis of Darlington mineral water, the analysis having been made by "W. W. Daniels, professor of analytical chemistry at Wisconsin University". The analysis listed the content of 12 mineral components, reported in grains to the 5th decimal place. Ed wonders whether our first chairman of the chemistry department understood the concept of "significant figures". Ed tells us his father was a printer and this envelope had remained in the family archives as a sample of work done.

Stephen E. Freeman, PhD '35, writes that although having passed the mandatory retirement age he has been given a two-year extension and plans to continue his activities as president of Freeman Chemical Corporation at Port Washington, WI. He reports that these are interesting times, (to say

the least) of shortage and unstable prices for most chemicals. He sends a special hello to Emeritus Professors Meloche and Schuette.

Sidney J. French, PhD '28, writes from a new address, Gull Harber, Apt. #401, 17105 Gulf Blvd., N. Redington Beach, FL 33708, "I realize how long it has been when I read about the active faculty. I just don't know them. On the masthead I know you, Schuette (bless his heart for his early devotion to us alumni—give him my best) and Mel. Of emeriti I know Les Holt, Harvey Sorum and Jack Williams. The most interesting item to me was that about Yvonne Dauplais Town. She was a fellow townsman of mine (Superior). We taught high school there together (1916-17) one year". Dr. French included a letter to Mrs. Town with the request that the editor pass it on to her. Last October, Dr. French talked at the annual meeting of the Association for General & Liberal Studies at Michigan State. He had been active in kicking off that organization thirteen years ago. He writes, "We love living here overlooking the Gulf of Mexico. Usually we walk a couple of miles up the beach in the early morning and take a dip in the Gulf later and usually one in the pool in the afternoon. That doesn't leave much time for what is known as (work), but so what!" Dr. French recalls meeting his wife, the former Florence Felten when they were together in a play in Bascom Hall.

William G. French, PhD '69, reported on his work in the development of ultra-high purity glass fibers at Bell Labs for cross country underground communications by modulated laser impulses, at a conference in Kyoto, Japan in July 1974.

P. Douglas Frisch, PhD '72, who has been post docing in Sheffield with Dr. Jon McCleverty for two years, has accepted a position at the U of Maine in Orono.

Herbert M. Gaarder, BS '16, writes, "58 years is a long time to be out from under Kahlenberg, Mathews, and Henry Schuette, but it has given me plenty of time to appreciate those who labored to make a chemist out of me. Please remember me to Professor Schuette". Gaarder was in research and development with Nilson and Company of Chicago for many years and is now retired in Seal Beach, CA.



Patrick K. Gallagher, BS '52, MS '54, PhD '59, has been elected Chairman of Committee E-37 on Thermoanalysis, of the American Society for Testing

and Materials (ASTM). Dr. Gallagher is with the Bell Telephone Laboratories where he has authored about 60 papers on thermoanalysis, optical and Mössbauer spectroscopy, inorganic synthesis, and solution equilibrium. He is on the editorial board of *Thermochimica Acta* and is North American editor of *Thermoanalysis Abstracts*. Pat and his wife and two sons live at 69 Harrison Drive in Basking Ridge, NJ.

The University of Nebraska Foundation recently announced the establishment of an annual lectureship in the newly created school of Life Sciences at the Lincoln campus in honor of recently retired professors **Carl E. Georgei**, BS '30, (PhD Biochemistry '34) former chairman of the Department of Microbiology, and **Walter E. Millitzer**, BS '33, (PhD Biochemistry '36) onetime dean of the College of Arts and Sciences. Both have been on the U of Nebraska faculty since 1935 and 1936 respectively.

Philippa G. Gilchrist, writes from Arcadia in Courtland, Alabama that she is always pleased to have news of those whom she knew when a graduate student at the University. She was PhD '31.

John Gillespie, PhD '72, has taken a position with Elars Bioresearch in Fort Collins, Colorado.

Gary Glass, postdoc '68, presented a fascinating seminar to the department November 5, 1974. He has been actively involved in Minnesota on the water pollution case brought about by the U.S. government against Reserve Mining Corporation and its taconite operations which dump 67,000 tons of tailings into Lake Superior daily. Gary's particular involvement was in establishing, through instrumental approaches, that the asbestos fibers now being found in Lake Superior originated from the taconite mines of Reserve Mining Corporation. It may be remembered that the government won the case against Reserve Mining but the judge's decision was immediately set aside

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GETTING THE TEACHING JOB DONE

The department continues to be indebted to visiting chemists in getting the undergraduate classes taught. Basically, departmental philosophy is to encourage full faculty participation in undergraduate instruction and over the years this practice has been standard. However, in a leading department there are continually shifting professional responsibilities which take professors away from the campus, sometimes for long periods.

As a consequence the department has depended, from time to time, on visiting faculty from other institutions to assist by filling in during periods when sufficient regular faculty are unavailable. The practice is felt to have mutual benefits since it enables visitors to have lengthy contacts with Wisconsin faculty members in their own realm of instructional and research interests. Recent visitors have been:

Alan A. Denio served as visiting professor in the freshman chemistry program during the summer session of 1975. A regular faculty member of UW-Eau Claire since 1964, Alan had previously been a visiting professor at Madison during the academic year of 1969-70 and the following summer session.

Dr. Denio is a native of Lowell, Massachusetts where he attended the Lowell Technological Institute in order to become a textile chemist. Following industrial experience

with Dow and du Pont, he decided to return to graduate studies in 1958, attending New Hampshire where he worked in physical chemistry under Alexander R. Amell, PhD '50. Dr. Denio, while not directly a Badger Chemist, considers himself within the heritage since Dr. Amell was a student of Farrington Daniels.

D. G. Gorenstein, visiting associate professor from U of Illinois-Chicago Circle who has worked with the organic program.

J. H. Morris, visiting associate professor working in the freshman program, comes from the University of Strathclyde in Glasgow, Scotland.

W. D. Smith has been visiting lecturer the past two years, splitting his time between the freshman program and the Theoretical Chemistry Institute. His home base is U of Utah.

Daniel S. Polcyn, PhD '65, who has held a position in the Analytical Division as Lecturer since fall 1972, is joining the faculty of University of Wisconsin-Oshkosh in fall 1975, in connection with their Analytical Chemistry program. Besides analytical chemistry, he will be teaching courses in environmental chemistry and radiochemistry. Oshkosh is Dr. Polcyn's undergraduate alma mater, where he took his BS in physics in 1955. Dr. Polcyn's wife is a nurse and they have a child of four.

ter original source of livelihood than chemistry. Her youngest daughter, Nancy Soule, had freshman chemistry under Professor Sorum whom Eleanor had back in 1928. Daughter Nancy did not continue in chemistry, however, but changed to political science and is now raising racehorses in New York with her MD husband. Reminiscing about her student days Eleanor writes, "I remember some of my father's friends, Dr. Mathews, the then head of the department, Farrington Daniels, who got me through physical chemistry somehow, Dr. Sorum, Dr. Schuette, organic analysis, Dr. Meloche, and others. Of my classmates, I remember no one. I was too busy studying hard just to get through competing with all those men! My physical chem partner left me to do all the experiments and eventually headed for Hollywood. Whether he ever finished phys chem, I do not know. I remember he came to the sorority house to copy all my notes, which annoyed me".

Daniel E. Grzegorczyk, BS '54, is coauthor of *Handbook of Plastics in Electronics*, recently published by Reston, an affiliate of Prentice Hall. Following his degree at Wisconsin, Dan did graduate work at UW-Milwaukee and at Marquette. He has now been with Honeywell, Inc. for the past eleven years where he is associated with design production and manufacturing support in plastic applications, and supervises testing in quality control of incoming raw materials. Prior to joining Honeywell, he spent five years with General Motors, and two years with Allen Bradley.

C. David Gutsche, PhD '47, received the ACS St. Louis Section award in spring of 1973 for his work as a scientist and educator and for his contributions to the advancement of chemistry. Dr. Gutsche is chairman of the Chemistry Department at Washington University.

Rolf Hahne, PhD '64, was appointed in August 1974 as Assistant Director of Environmental Sciences for the State Hygienic Laboratory at the University of Iowa. He was formerly with Pan American World Airways at the Kennedy Space Center in Florida.

James L. Hall, PhD '39, reports having bound all issues of *Badger Chemist* starting with No. 1, 1953. He recently had an enjoyable reunion with Elmer Johnson and his

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by a three-judge Court of Appeals in St. Louis and the problem is still far from resolved. Gary was a postdoc with Professor West at Wisconsin after receiving his PhD at Minnesota. In January 1974 he received the Bronze Award of the EPA for his work on asbestos.

John T. Goolsbey, BS '70, reports enjoying the lists of degree recipients, many which he knew while at Wisconsin. At the time of writing, he was beginning his last year of graduate work under Prof. R. P. Woodward at Harvard. He writes, "I am very appreciative of the excellent foundation in chemistry and in research which I received at the chemistry department in Madison. I wish you and your newsletter continued success as well as my thanks to all of the

members of the department who assisted in my education, especially Profs. Whitesides and Casey".

Eleanore Benner Soule Gray, BS '32, sent a long letter to Professor Schuette following receipt of the last *Badger Chemist*. She writes of her pleasant four years as a student in the department. She entered chemical studies with misgivings, but complied with the wishes of her father, PhD '08, who as the father of three girls, wanted her to be the boy of the family. She landed with the Pittsburgh Testing Laboratory in Buffalo, then became technical librarian at the Mathieson Alkali Works and later at the Hooker Electrochemical Company. She recently retired from R. B. McMullin Consulting Engineers and has returned to her first interest in art. She reports success in winning awards and in selling her paintings, but questions whether it would have been a bet-

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wife at the Chemical Education-Priestley Bicentennial Meeting at Penn State in July-August, 1974. He sends his regards to Professors Williams, Willard, Larsen, Holt, and Meloche.

Robert L. Harris, PhD '51, was glad to read about Sallie Fisher and Marv Skougstad in the last issue of *Badger Chemist*. He would like reports on other graduate students of the 47-52 era such as **John Kuhn**, and of Professor Bender. He reports getting together with **Glen Irish**, PhD '49, at the last Los Angeles ACS meeting where he attended the Fuel Chemistry Division papers and had a sail in California waters for the first time. Bob is still with Allied Chemical in New Jersey.

Theodore J. Haupert, PhD '69, was a visitor to the department last spring. Dr. Haupert is now with the department of chemistry, California State University, Sacramento.

Louis F. Heckelsberg, BS '51, says "still no news—keep up the good work".

Donald J. Henderson, PhD '??, joined Borden Chemical Company in January 1974 after five years in polymer research with Exxon. He is technical director in Borden's Industrial Adhesives department. Don is located in Columbus.

Irwin A. Hentzen, BS '20, started a paint manufacturing company of his own in 1923 and built it up to a very substantial business. He received an Army Ordinance Award in WWII. He is now retired, spending part of his time at a winter home in Florida. The company, under the name of Hentzen Chemical Coatings, is still thriving. He still has warm memories of Alpha Chi Sigma where he knew Professors Mathews and Meloche, as well as George Phillips and Irv Helfaer. He gives his home address as 4235 N. Downer Avenue, Milwaukee, Wisconsin.

Takero Higuchi, PhD '43, shared in a 3 million lire International Chemistry Prize awarded by the Italian Oil Chemists Society for a paper on thermodynamic contributions from ion pair extraction equilibria which appeared in *J. Physical Chem.*, 11, 2694 (1973). The paper was based on dissertation work of one of Dr. Higuchi's students and its extension by an associate in the Pharmaceutical Chemistry Department. Tack is in

VINCE GENNA

Through an unfortunate oversight, the article in last year's *Badger Chemist* which called attention to Tally's retirement failed to mention that his longtime associate Vince Genna is continuing his work in the prep room. The article mentioned that Bill Weber was taking over Tally's position as demonstrator, but failed to mention that Vince was continuing with his duties. The oversight led to a number of questions from recent alumni.

The arrangement created by Professor James H. Walton thirty years ago, which created the permanent position of demonstrator, has been a great success since it gives continuity to the activities associated with preparation of demonstrations for freshman lectures. We not only find that the prep room is heavily used by all of the freshman teachers, but professors in other divisions frequently come in with requests for their lectures as well.

Some of the older Badger Chemists will recall being assigned to lecture preparation when they were hired as teaching assistants. There are many legends still repeated around the department about the "joys" of being assigned to Professor Kahlenberg as lecture assistant. According to Professor Emeritus Holt, who once served in this capacity, Kahlenberg never bothered to tell the demonstration assistant what he wanted for the next lecture. Failure to have proper demonstration material at hand often led to caustic Kahlenberg comments which sent the LA scur-

rying into the prep room to produce the overlooked apparatus. Legend has it that one LA never did find the requested material and was last seen with his bag at the Northwestern Depot leaving Madison. Professor Holt managed more successfully, particularly since he had been preceded by Harold (Whitey) Fevold, PhD '28, who warned Les to bring out everything that might possibly be relevant to the forthcoming lecture. Kahlenberg would put in an appearance shortly before the lecture hour began, look over the assembled material, and point out those items which were superfluous and should be removed.

The modern demonstration room is a better organized activity, although tensions occasionally occur. When Tally became permanent demonstrator, the lecture demonstrations became systematically codified and it was merely necessary for a professor to present the demonstrator with a list of his requirements for the next lecture. Tally's main problem turned out to be getting the list in time to make preparations. While the rules called for the list being in hand the day before, professors frequently procrastinated and sometimes came in just before the lecture was about to start.

Vince Genna learned the operations of the prep room very well under Tally's tutelage and has been a cheerful and cooperative demonstration room associate. He and Bill Weber are running a tidy ship and the freshman lectures commonly are presented without serious hitches.

the Pharmaceutical Chemistry Department at the University of Kansas. Prior to joining the Kansas faculty some years ago, he was active in the Pharmacy faculty at UW where he pioneered in the introduction of physical chemical methods into pharmaceutical research.

Katharine Gallagher Hilmer, BS '71, and **Richard Hilmer**, PhD '73, write from Wilmington, DE and inquire about what happened to Vince Genna. Vince continues with the freshman prep room as is explained in another article in this issue. The Hilmer's enjoyed hearing about Tally's retirement, commenting, "He's a great guy".

Warren W. Woessner, PhD '40, reported a phone call from **Charles Hine**, MS '40. Charlie runs the

Hine Laboratories in California where he is involved in industrial hygiene and toxicology. He is planning to expand to the East Coast.

A reference to **George D. Phillips**, BS '21, in last year's *Badger Chemist* raised a letter to him from **W. Floyd Holbrook**, MS '21. George very thoughtfully passed it on to us. The letter begins, "Dear Classmate: I enjoyed reading in the *Badger Chemist* about your letter to Schuette and Meloche. The latter is only a name to me, but I first knew of Schuette when he took over the quant class after Lehner had gone to war . . . your having taught high school reminded me that Dr. Lehner suggested to me that I might go into teaching".

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The advice was not followed and Floyd Holbrook spent his active career as a chemist with the U.S. Bureau of Mines, first at Pittsburgh and later in Minneapolis, Pullman, and Albany, Oregon. In 1936, he won a National Award for the best paper on the subject of iron and steel. Later he worked with magnesium and aluminum. Floyd now lives at 708 Capital Manor, Salem, OR 97304.

Alan F. Horwitz, BS '66, reports a change of address to Department of Biophysics and Physical Biochemistry, School of Medicine, University of Pennsylvania.

Charles F. Huebner, BS '39, PhD (Biochemistry) '43, has just completed his twenty-sixth year in Pharmaceutical Research with CIBA Giegy Corporation. He reports that besides seeing Wisconsin chemists in the usual expected places he occasionally meets some during birdwatching activities in unexpected places, such as Cocoa Plantation in Trinidad and on Hawk Mountain, PA. Last fall he saw **Russell Peterson**, PhD '42.

Edgar A. Jaynes, PhD '73, writes from 434 S. 42nd Street, Philadelphia asking to be placed on the mailing list. (While we try to place new graduates on the mailing list promptly, the effort to bring the newsletter to them sometimes fails as a result of rapid changes of address which occur following graduation. For this reason we hope that anyone who has not received the *Badger Chemist* in the last 15 months will so indicate so that we can have an up-to-date mailing list. Ed.)

Russell Johnsen, PhD '51, reports passing through Madison briefly in early August, 1974 on the way home from Alaska. Russ has become Associate Provost of the College of Arts and Sciences at Florida State. The Johnsen's son, Peter, is a student in limnology at UW-Madison and recently married a Madison girl.

Elmer Johnson, PhD '40, writes from South Dakota University, Brookings, that they have a new department head who is trying to rotate staff through different courses. Consequently, Elmer taught basic organic for the first time in ten years. The Johnsons have two sons in San Francisco and one in New York. The latter was going up to San Francisco to give a sociology paper and the en-

TALLY'S ACTIVITIES

The retirement of Odell A. Taliaferro, BS '33, reported in last year's *Badger Chemist* proved to be, not so much a retirement as a modification of activities. The retirement profile raised a large number of letters, both to Tally and to the editor, regarding his activities over his thirty years as demonstrator in the Freshman Chemistry program. Among these were invitations to give lecture demonstrations here and there.

On February 21, 1975, Tally presented a lecture demonstration at Tougaloo College in Tougaloo, AL at the invitation of **James A. Kinsinger**, PhD '72. Among the audience at Tougaloo was **Charles Trottman**, PhD '72 in History of Science, who teaches chemistry at nearby Jackson State College in Jackson, MS. Shortly after returning to Madison, Tally received an invitation to participate in the Mississippi State Science Fair being held at Jackson State on April 18. The letter says, "As an additional treat this year, we would like to include in the program some chemistry demonstrations. Specifically, we hope to have two sections of about fifty minutes each, both on the 18th of April. One would be in the afternoon the other in the evening." Tally found it hard to decline this invitation, but he was already committed elsewhere on this date.

The conflict was with the Annual Meeting of the Wisconsin Society of Science Teachers being held in Madison on April 19. As a part of that program Tally was responsible for a lecture demonstration on, "The art of chemical demonstration."

Then on May 25, Tally and Professor Bassam Shakhshiri appeared jointly at the 58ieme Congres et Exposition de Chimie

tire Johnson family planned to have a reunion in San Francisco in August 1975. The youngest son is a senior in high school this fall.

John A. Keenan, BS '30 (Biochemistry PhD '34), writes "again I want to tell you how much I appreciate receiving the *Badger Chemist*".

Eugene V. Kleber, PhD '43, writes from Kanoga Park, CA and extends his special good wishes to Professor Sorum.

F. W. Koerker, BS '34, MS '36, is manager of Quality Standards

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at Toronto, Ontario, to participate in a symposium on the use of demonstrations and experiments in the lecture. The Wisconsin team presented, "Lecture demonstrations-Wisconsin style." According to a mimeographed handout made available at the lecture, the demonstrations included the explosion of nitroglycerin, the mushroom cloud of zinc reacting with sulfur, the clock reaction, the hydrogen jet, the spontaneous combustion of zinc ethyl, the preparation of silver mirrors, the oscillating reaction, phosphorescence of luminal, phosphorescence of phosphorus spread on the hands, and an item leaving his Wisconsin associates somewhat puzzled entitled, "Wine, Women and Song." The handout carried full directions for preparation of materials as well as how to conduct the demonstration.

Shakhshiri and Taliaferro collaborated on a somewhat similar presentation at the Chemical Education Program of the Midwest Regional Meeting of the ACS in June 1974 at Purdue. In a letter by Derick Davenport of the Purdue Planning Committee the following statement appears, "Tally's performance was destined to be the peak of the program and I have never seen a more beautiful pair of performances than the silver mirrors and the copper oxide reductions."

Despite retirement, Tally finds it difficult to stay away from the Chemistry Building, but finds his appearance less harassing than when he was personally responsible for success of all of the freshman and ILS lectures. He could not resist being on hand to participate in demonstrations on the last lectures of the fall semester prior to the Christmas holidays.

Tally and Hazel have had an opportunity to do a fair amount of traveling during the past year. On the lecture trip to Tougaloo, Tally and Hazel went on to Houston where for several days they were guests of Dr. & Mrs. Larry Haskin. Most Badger Chemists will remember that Dr. Haskin was a member of the Chemistry Department faculty until a few years ago when he accepted an offer of the National Aeronautics and Space Administration to head up their Analytical Program. While at Wisconsin Dr. Haskin was active in the freshman chemistry program and was deeply involved in trace analysis of rock samples brought back by the Apollo astronauts from the moon.

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at Dow Chemical. He reports, "enjoy reading about the few faculty from my day still on deck. Also informative to hear of new Wisconsin alumni coming to Midland or Dow and associated companies".

Sheldon Kopperl, PhD '70, continues his teaching activities in history of science at Grand Valley State College, Allendale, MI. The Kopperls have two sons, Benji in nursery school, and Bobby, now enjoying exploration of the world on his own two feet.

Edward N. Kramer, PhD '33, wrote on receiving the last *Badger Chemist* that as usual he enjoyed it thoroughly. He reports a change of address. Now that he has retired he and Margaret spend the cold half of the year in Florida: 505 Royale Riviera, 935 East Causeway Blvd., Vero Beach, FL 32960 and the warm half of the year in the North Carolina mountains. He spends considerable time playing golf and keeps his chemistry alive by fooling around with color in his photographic dark room.

Ole Kramer, postdoc '72-'74, of the U of Copenhagen, spent the past summer in Madison with Prof. Ferry's research group.

Barbara Brockett Krieger, BS '68, is currently working on her PhD in chemical engineering at Wayne State University in Detroit, where she is studying the chemiluminescence of reactions involving oxygen and olefins in flow tube reactors at about 1 ton pressure. Prior to returning to school she had worked in France at the French Petroleum Institute on thermal and catalytic reactors for autos and at General Motors Research Laboratories on catalytic reactors. She expressed a warm feeling toward the chemistry department even though her employment in the UW Engineering College kept her from getting closely involved with faculty and research projects in chemistry. She writes "I felt an admiration and a warmth for Professors Sorum and Daniels because they were warm gentle men to their many students as well as being excellent professors. It was good to see the warmth among yourselves as you gave a retirement salute to Tally".

Carl N. Krieger, BS '33, has just completed a term as President of the Board of Directors of the Wisconsin Alumni Association. Carl, who took his PhD in biochemistry

WM. LINK HEADS OIL CHEMISTS

William E. Link, PhD '54, is now serving as President of the American Oil Chemists Society, a position held by his major professor, H. A. Schuette in 1940. Bill is Manager of the Analytical Chemistry Division of Ashland Chemical Co., the research and development division of Ashland Oil, Inc. of Columbus, Ohio. He had previously served the AOCS as secretary in 1973-74, and as first V-P last year.

Link received his BS at Northland College, Ashland, WI in 1942. After the war he became assistant professor of chemistry at his alma mater, holding that position from '47 to '51. During that period he started grad work with Professor Schuette in summer sessions, taking his MS in '51. At that point he became a full time grad student and completed the doctorate three years later. Between '54 and '67 he was a research chemist at Archer-Daniels-Midland, serving as a group leader from 1955.

Other Badger Chemists who have been active in the Oil Chemists Society include *Fred Kummerow*, BS '39, (PhD, Biochem, '43) who is professor of food chemistry at U of Illinois-Urbana (Fred served as Secretary in '73-74 and has held numerous committee positions); *Francis B. Coon*, BS '51, who has been with the Wis. Alumni Research Foundation Labs since graduation; and *Ivan W. Wolff* of the USDA Regional Lab who serves as vice-chairman of the AOCS Foundation Board.

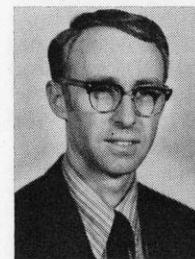
in 1940, lives in Camden, NJ where he is President of Campbell Institute for Food Research. The Campbell Institute was formed in 1966 to give more emphasis to development of new products, improvement of existing products, and the importance of basic research in complementing these efforts for all Campbell foods. The Institute now has a staff of 189 people including 22 PhD's. The *Wisconsin Alumnus* devoted a feature article on Carl in its January 1975 issue.

Robert F. Kusel, BS '36, sent his contribution from 8201 Mosswood Drive, Waco, TX, but with no news of his activities.

Robert Lardis, PhD '73, is a second year post-doc at Stanford under Professor Eugene van Tamelen.

Jerold A. Last, BS '59, MS '61, is coeditor, with Allen I. Laskin, of *Nucleic Acid Biosynthesis*. Last took his PhD in biochem in '65 at Ohio State. He was American Cancer Society Fellow at NYU Medical School in '66-67 before taking his present position as senior research scientist at the Squibb Institute of Medical Research.

Robert W. Laundri, BS '42, sent his contribution from 344 Keith Avenue, Akron, but without news of his activities.



Stephen L. Lawton, BS '63, was recently promoted to Associate in the Composition and Structure Research Group at Mobil Research & Development Corporation, Paulsboro, NJ Laboratory. After his BS at Wisconsin, he received the MS at Iowa State before joining Mobil's research staff in 1966. He has been engaged in the determination of crystal structures of zeolite catalysts and lubricating oil additives, using X-Ray diffraction techniques.

Durward Layde, PhD '40, is now chairman of the chemistry department at UW-Milwaukee.

Ding-ping Lin, Postdoc '71-73, has returned from Taiwan, where he served on the faculty of the National Tsing Hua University, to a Research Associate position in the Chemistry Department at Wayne State University.

Alan Ling, Postdoc '66-68, who has been on the staff of West Virginia University since '68, has moved to a new position in the Nuclear Physics and Chemistry Department of San Jose University at San Jose, California.

The article on Tally raised a letter from **Charles J. Lind**, BS '40, who sent congratulations to Tally including "I can truthfully say that in the space of my entire university career I never met a person more understanding, gentle, and interested, truly interested in other people than you, Tally." Charles is still a research chemist for Allied Chemical in Buffalo where he has been working since graduation from Wisconsin. The letter inquires about Perry Wilson, bacteriologist. Dr. Wilson was never a student for a chemistry degree, although for many years he taught the required bacteriology course taken

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by chemistry course students. Dr. Wilson has been a member of the Agricultural Bacteriology Department for all of his career and continues active in that discipline.

Adelaine Lofstrom corresponds from 58 McGuire Street, Metuchen, NJ, but without news of herself.

Linda Jane Lorenz, BS '72, recently reported an address change to 2465 N. Frederick Ave., Milwaukee, WI 53211. She reports enjoying the *Badger Chemist*, even though she is not currently active in chemistry.

James T. Lowe, BA '30, PhD '35, of 1056 W. 58th Street in Indianapolis, IN writes "Cheers on your fine newsletter," but sends no news of himself.

Roger H. Lueck, MS '21, reports that "It gives me great pleasure to browse through 'This 'n' That' and discover names of men I shall never forget: Sam Lenher, Frederick Brown, V. W. Meloche, H. A. Schuette, John Williams, Blair MacQueen, and Ralph Mason just to name a few." Roger encloses a reprint of an historical review of the corrosion problem in the tin can, a field in which he was actively involved before his retirement. He lives in Saratoga, CA at 20016 Winter Lane, and continues limited activities as a consultant.

Donald Lurvey, BS '39, extends a hello to Professor Harvey Sorum. He remembers him back in the days when he was dating Emma Lou and when he was driving a Studebaker. Don also reports remembering very well, Dr. Mathews reading verbatim the lessons in physical chemistry. Lurvey is still chief chemist with the Natural Gas Pipeline Company of America. He and his wife live at 604 Bethel Drive, Joliet, IL, their children all having left home by now.

Bruce N. McBane, MS '41, sent his contribution without news from 4213 E. Ewald Road, Gibsonia, PA.

In a long letter to Professor Schuette, **Elbert S. McLoud**, BS '31, wrote of his activities since retiring from the research and development staff at S. C. Johnson and Sons, Inc. of Racine. He has become deeply involved in a tree nursery business which provided unique planting stock for landscaping by community agencies. Some of his forestry is located in Mississippi, where the McLouds have a second home in Ocean Springs. He

is also associated with a Savings and Loan Association as a director and appraiser.

Blair MacQueen, MS '20, sent a newsy letter from Oconto reporting the death of Bud Sneider and giving news of various Badger Chemists of his time.

Howard V. Malmstedt, BS '43, MS '48, PhD '52, of the University of Illinois gave the Edward Herbert Boomer Memorial Lectures at the University of Alberta, Edmonton in spring of 1973.

John R. Miller, PhD '71, is now on the staff of the Radiation Chemistry Section of the Chemistry Department of the Argonne National Laboratory. He was an invited speaker at the 1975 Gordon Research Conference on Radiation Chemistry, speaking on the subject of "Electron Tunneling in Gamma-Irradiated Glasses."

Stanley Mirviss, PhD '50, occasionally reaches Madison in connection with recruiting for Stauffer Chemical Company. He has a daughter in graduate school at Columbia and a son is a freshman at Yale. His daughter took her BS at Wisconsin in '73. His wife, Ina (MS Biochem '49) is a high school chemistry teacher in Stamford, CT.

Melvin M. Mueller, MS '39, reports that he just passed his thirty-fifth year with Robert A. Johnston Company in Milwaukee, the job Dr. Schuette lined up for him in 1939. He reports that **John Heise**, BS '40, who he hired on the advice of Dr.

DANCE RETURNS TO AUSTRALIA

Ian G. Dance, a member of the inorganic division and the freshman chemistry group since 1968 has returned to his native Australia where he will be Lecturer in Chemistry at the University of New South Wales in Kensington, NSW. His appointment is in the area of x-ray crystallography.

Ian took his college work at the University of Sydney, receiving the BSc in 1961 and the MSc in 1963. He then turned to England where he took the PhD at Manchester in 1966. Thereupon he spent two years as research associate to Professor Richard H. Holm, the first while Holm was still at Wisconsin, the second at MIT. His research interests are in the field of transition metal chemistry. He was a popular teacher in the freshman chemistry program.

Schuette is still with the Johnston Company. Mel reports that they have a lot of reminiscences of the days in the Food Chemistry Department.

Grace Legler reports a change of address for **Robert F. Myers**, PhD '70, Heritage Road, East Lime, CT, but no further news about him.

R. Lee Myers, Postdoc, is with the Science Center of Rockwell International in Thousand Oaks, CA.

Richard J. Neddenriep, PhD '57, is now Director of Research and Development at Betz Labs, in Doylestown, PA.

Phillip T. Newsome writes "Thank you for the *Badger Chemist*, I always look forward to receiving it". This letter comes from Rochester, NY.

Wayland E. Noland, BS '48, adds a postscript to our report on **Gunter S. Fonken**, PhD '47, in *Badger Chemist* 21. Wayland tells us that Roy Johnson, coauthor with Gunther of *Chemical Oxidations and Microorganisms* was a PhD of his at Minnesota in 1965. Wayland is secretary to the Board of Editors of *Organic Synthesis*.

According to FLACS, **Eugene Olsen**, BS '55, PhD '60, was a candidate for Chairman-elect of the Florida section of ACS in 1974. After teaching at Franklin and Marshall College, Lancaster, PA, from 1960-64, Eugene joined the staff of University South Florida, Tampa in 1964. During 1971-72, he was NIH Special Postdoctoral Fellow in the Department of Laboratory Medicine at Yale. He has been active in ACS affairs, both in Pennsylvania and Florida. He and Mrs. Olsen are the parents of three children.

Fred S. Orcutt, BS '31 (PhD Bacteriology '35) sent a very generous contribution from Blacksburg, VA to "make up for the many years I have failed to do so." Fred is Emeritus Professor of Biology at the VPI, but continues to maintain his home in Blacksburg. He keeps very busy as Executive Secretary-Treasurer of Phi Sigma Biological Sciences Honorary Society. Classmates may recall that Fred married Catherine Krauskopf, the youngest daughter of the late Professor Francis Craig Krauskopf, who was associated with the freshman chemistry program from 1907 until his death in 1947. Fred writes, "Please give my best to Mel and Dr. Schuette. . . . I think of them often and used what they

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taught me very often during my thirty-one years of teaching."

Stanford S. (Sol) Penner, PhD '46, recently saw publication of Vol. 1 of *Energy: Demands, Resources, Impact, Technology, and Policy*, the first of a three-volume work on energy of which he is co-author. Sol is professor of engineering physics and director of the energy center at the University of California-San Diego.

Fredus M. Peters, Jr., PhD '25, has been very faithful in keeping Professor Schuette apprised of his activities. He recently sent news about the candidacy of Eugene Olsen and Harry Schultz for Florida Section offices. He and his wife Helen continue to enjoy their role as teacher's aides once weekly in the Sarasota, FL schools where they have been providing special assistance to students ranging between seven and thirteen.

Deanna L. Peterson, BS '74, has been working as an analytical chemist in the federal water quality laboratory in Salt Lake City.

Russell W. Peterson, PhD '42, received the Charles Lathrop Parsons Award of the ACS in 1974. Russ is chairman of the President's Council on Environmental Quality.

Nancy Gray Potts, BS '15, writes that her husband, a Lehigh chemical engineer, enjoys *Badger Chemist* as much as she does. Then she passes it on to their son Jack who is a Wisconsin graduate in Chemical Engineering.

Albert F. Preuss, PhD '53, writes "Thank you again for your efforts." He is now vice-president for research and development at Ionac Chemical Company in Birmingham, NJ. He had been director of research since 1969.

Armand J. Quick, BS '19, was associated for many years with the Marquette Medical School. He recently celebrated his 80th birthday and published his sixth book entitled, *The Hemorrhagic Diseases and the Pathology of Hemostasis*. The book which summarizes the author's work on blood chemistry and blood diseases during his long career, is published by Charles C. Thomas. Dr. Quick writes, "My kindest regards to Dr. Schuette. It is remarkable that he keeps up his interest. He was one of my good teachers."

Terry Reeve, PhD '65, visited the Chemistry Department last Oc-

tober as a recruiter. Terry is at Hercules Research Center in Wilmington, DE.

Richard L. Reeves, PhD '55, writes that he has completed his 20th year at Kodak Research Labs. He spent 16 years in color photographic research and is now working on colloid and surface chemistry. He reports close contact with a group of Professor Ferry's former students who are working in a polymer chemistry group at Eastman.

Victor Reinders, PhD '35, was recently inducted into the Hall of Fame of the Amateur Trapshooting Association. His trapshooting exploits received attention in CEN, Sept. 23, 1974, p. 76. Vic is Professor Emeritus of the University of Wisconsin-Milwaukee.

Margaret M. Rendall, BS '45, is senior research chemist with the J. C. Johnson Company in Racine. She recently received an anniversary citation commemorating thirty years with the company.

Jeffrey A. Richards, PhD '75, is working as an analytical chemist at Pfizer in Groton, CT.

Ruben D. Rieke, PhD '66, returned to the department in August 1974 to give a special organic seminar on the preparation of active metal powders and some of their chemistry. Ruben is professor of chemistry at the University of North Carolina-Chapel Hill.

Frederick W. Riley, BS '43, has been at BASF Wyandotte Corporation for the past eighteen years. He reports numerous other Badger Chemists at the company, his closest associates being **Stanley Hirozawa**, PhD '55, and **Joe Nice**, (Hsien Ying) PhD '62. Fred is involved in analytical method development for organics. He said he often thinks of Dr. Schuette who actually stimulated his interest in this field and sends a special "hello."

Rex J. Robinson, PhD '29, reports enjoying hearing about the latest developments at UW campus and news of his UW friends. Rex went to the chemistry department at University of Washington, Seattle and taught there 42 years before retiring in Sept. 1972. He extends special regards to Professors Meloche, Holt, and Sorum. (Also see article on Kemmerer, Ed.)

Robert W. Rosenthal, PhD '49, reports that since his forced retirement by Gulf Oil's layoff policy in 1973 he retrained for a year as a clinical chemist. He has moved to

Florida where he lives in Hallandale. His son Ned graduated Phi Beta Kappa from Wisconsin in May, 1974 and is in his first year at the School of Optometry at Indiana U.

William F. Rothschild, BS '48, is an electrochemist at Rockwell International and is responsible for specifications and development of plating processes used by the manufacture of printed wiring multi-layer boards. He reports that one of his twin sons is an animal science major in graduate school at the UW and is the third generation of Rothschilds attending the university. The other twin is in his first year of medicine at Baylor. The youngest of the Rothschild children is an English major at University of California-San Diego. Bill reports interest in seeing Sallie Fisher's picture and reference to Charles Templeton and Jim Meinhart who were all students in Professor Hall's group when Bill was at the university.

Leo Safransky, BS '37, writes from 1205 Covington Road, Wilmington, DE 19803, but sends no news about his activities. At last recording he was at du Pont.

Clair N. Sawyer, BS '30, PhD '38, writes that he is enjoying retirement in the valley of the sun. He still has frequent consulting engagements on water and waste water problems which interfere with his lawn bowling and other activities. Clair's address is 10216 Kingswood Circle, Sun City, AR 85351.

E. R. Schierz, BS '16, PhD '22, retired in 1961 as department head at the University of Wyoming. Only last year he and his wife moved from Laramie to their present home at 707 Dakota Drive, Apt. 103, Rapid City, SD 57701. He sends special regards to Professors Schuette, Meloche and Link, while complaining that his type-writer can't spell.

Janet N. MacNaughton Schlatter, MS '36, sent her contribution without news from a Madison address.

Harry P. Schultz, BS '42, PhD '46, was written up in FLACS, the publication of the Florida Section of ACS in connection with his candidacy for a Section office in October 1974. **Fredus Peters** very kindly sent the clipping together with that on **Gene Olsen** in a recent letter. Harry was Research Bio-chemist at Merck upon completing his PhD, but soon moved to the

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University of Miami and has had a deep input into many aspects of instruction in organic chemistry.

CEN carried an article last December calling attention to **Maurice Shamma**, PhD '55, and his involvement in the isolation of new isoquinoline alkaloids. Maurice is at Penn State.

Neill Smiddy sent his contribution this year without news about himself.

L. W. Smith, BS '17, lives at 119 Pimroke Road, Akron, OH. No news.

Marshall R. Sprinkle, PhD '32, writes that he has no news other than a fifteen month old granddaughter, Joy Christine Sprinkle, daughter of son Jim. Marshall now has four granddaughters and one grandson, for an average of 1.67 per family, well within ZPG guidelines.

Robert Stach, PhD '72, is now on the biochemistry faculty of the Medical School at State U of NY-Syracuse.

Lawrence Stein, PhD '52, enjoyed reading the article about Tally and the notices of activities of old friends. Since leaving Madison Larry has been on the staff of Argonne National Laboratory in Illinois. He reports that work at the laboratory became particularly interesting in 1962 when noble gas compounds were discovered and writes, "We are still finding new applications for noble gas chemistry, even today."

Robert P. Stewart, Jr., PhD '70, is assistant professor at Miami U, Athens, Ohio.

H. Stephen Stoker, PhD '68, is Associate Professor of Chemistry at Weber State College in Ogden, UT. He is coauthor of several textbooks dealing with chemistry from an environmental point of view, the latest book being titled *Energy: From Source to Use*, published by Scott Foresman, Atlantic City.

Frank M. Strong, PhD '32, has received the American Chemical Society's award for achievements in agricultural and food chemistry. Dr. Strong is Emeritus Professor of the UW Biochemistry Department.

Roberta Hemming Svacha, BS '49, sent a letter with, "Just a little lubrication!", but no news about herself. Presumably, she continues

with Universal Oil since her address is North Barrington, IL.

Glen R. Svoboda, BS '52, sent no information about himself although it is known that he is involved in industrial activities in the Milwaukee area.

Charles Templeton, PhD '48, writes from Houston, Texas, "The recent issue of the Badger is excellent. Keep up the good work." Unfortunately, Chuck had no news of himself, except for his address, 6119 Reamer.

Dietrich Timm, a postdoctoral research student with Dr. Willard in 1967-68 has been assigned to the Swedish Embassy in Bonn, Germany as a scientific attaché.

Thomas N. Tischer, PhD '61, has been with the research laboratories of Eastman Kodak since completing his doctorate. Recently, he moved away from analytical chemistry to become a photographic scientist and film builder for professional motion picture products.

Ralph F. Turner, BS '39, is a professor in the School of Criminal Justice, College of Social Science in Michigan State University where he is perhaps the only protege of Dr. Mathews to pursue a career in forensic science. With a recent letter he sent two book reviews of Matty's "Firearms Identification," one published in 1963 and the other in 1974. He is also author of the first chapter in *Forensic Science*, publication no. 13 in the ACS Symposium Series. Ralph sends his regards to Professor Meloche and Jean and Chuck Watson.

Carl Turnquist, PhD '72, is in Wilmington, DE. His name was recently added to the mailing list, thanks to Katherine and Richard Hilmer.

H. Wilco VandenBorn, PhD '73, has left du Pont, where he worked in liquid chromatography and atomic absorption of agricultural chemicals, and is now production supervisor at Dow Chemical in Edmonton, Canada. He reports that he enjoys the *Badger Chemist* but the second copy is unnecessary. (If anyone else receives 2 copies, we will appreciate being notified so that the mailing list can be corrected. Ed.)

Marian Veazey, PhD '26, called attention to the omission in our last issue about his family—mention of his son Bill who is in Massachusetts. Marian is teaching physics at St. James near Hagerstown, MD, finding it an interesting

and stimulating but difficult assignment after five years of retirement. He reports receiving a long letter from Blair MacQueen whom he had not seen since 1923 and in due time he replied with a long letter. He inquired about the whereabouts of Hugo Himke, Chem Eng '26, (an inquiry to the alumni office soon brought a reply). He is also curious about the whereabouts of Gene Wechter who he thinks was with Portland Cement, and George Corley, who he believes was a Professor at University of Louisville Medical School. He wonders whether Corley may be an uncle or other relative of George Corley Wallace, Governor of Alabama. A search of the files revealed an address for Gene Wechter at 608 Lincoln Blvd., Speed, IN, but no information about George Corley.

Vanderveer Voorhees, PhD '24, writes from Los Altos, CA that he is about to retire from his consulting firm at age 78. He and Ruby recently celebrated their 56th Anniversary and last year sponsored a Japanese college student. Van's letter to Professor Schuette reported a recent return from a bus tour of Canyon Country where they visited a potash mine and uranium plant in Moab, Utah. He writes, "Virus I received in Madison 1922-24 is still potent."

Joseph Walker, PhD '50, joined the Pure Oil Company after completing his degree at Wisconsin, working in their new research center in Crystal Lake, IL. Following the merger of Pure Oil into the Union Oil Company of California in 1965, he was transferred to Union Oil's research center in Brea, CA where he is associate director of research. He reports enjoying California, particularly when reading about the weather in Wisconsin and northern Illinois. The Walker's oldest son has graduated from the University of Illinois and the USC Law School and is now a lawyer in Newport Beach, CA. Their oldest daughter graduated from Berkeley and the Cooper Union School of Architecture and is working as an architect in Minneapolis, while her husband is attending University of Minnesota Medical School. Their youngest son is in Medical School at University of Chicago while the youngest daughter is still in high school.

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Carol Hermann Wallace, PhD '49, has given up her job at Kent State and is now teaching part time at Notre Dame College in Cleveland where she has a class in advanced organic laboratory.

Thomas C. Wallace, PhD '70, will be starting a postdoctoral position at Lehigh University in Sept. 1975.

Charles C. Watson, PhD '38, writes that the most recent issue was full of news of people he knew. He says, "I always read the newsletter all the way through, a test of a worthwhile publication."

Winston J. Wayne, PhD '40, sends his contribution from 12 Owls Nest Road, Wilmington, DE, but without news about his activities. Presumably, he is associated with one of the chemical companies in Delaware.

Mary Elvira Weeks, MS '13, speaks of enjoying the *Badger Chemist*, particularly the articles about Dr. Mathews, under whom she studied physical chemistry. She writes, "I am pleased to know that he was able to continue his research on firearms identification almost to the close of his long useful life." Her address is 19339 Sussex Street, Detroit.

Robert E. Wellauer, BS '67, now lives at 9352 Green Bush, Arleta, CA 91331. No news was forthcoming.

Robert H. Wentorf, PhD '52, returned to the campus in October 1974 to receive an Engineering College citation at the engineers day annual banquet. Bob is at General Electric Labs in Schenectady, NY where he has carried out much significant research, including success in preparation of synthetic diamonds.

Leslie L. Williams, PhD '68, writes that he enjoys his teaching

of general and physical chemistry at Chicago State University.



Paul and Margaret Bender called attention to a *Mount Holyoke Bulletin* which carried a profile of **Kenneth L. Williamson**, PhD '60, who has been

on the college's chemistry faculty since 1961. A graduate of Harvard in 1956, he was apparently influenced by Prof. Louis Fieser to come to Wisconsin where he worked under Wm. S. Johnson who had been Fieser's student. Since joining the Mount Holyoke faculty he has followed that chemistry department's long tradition of combining active research with teaching. Ken is married to Louise Hoerner, the girl he met while involved in dramatics in high school. The couple have three children. The profile placed particular emphasis on Ken's success in acquiring the NIH grant which brought a Varian HA 100 NMR spectrometer to Mount Holyoke, thus enabling the college to continue its distinction in spectroscopic studies.

Linda Whatley Wilson, PhD '62, has taken a new position as Associate Vice Chancellor for Research at the University of Illinois-Urbana.

Warren W. Woessner, PhD '40, retired from his position with du Pont at New Brunswick, NJ, and alleges that he is busier than ever. He says every day seems like a busy Saturday, trying to catch up on things that were neglected during the week. The senior Woessners have been visiting Madison fairly frequently in the last two years to see son Warren who is with Miles Lab. and their other son who is a graduate student in geol-

ogy. He appreciates the opportunity to look in on Dr. Schuette when in Madison.

Warren D. Woessner, PhD '71, recently received a literary award from the Council for Wisconsin Writers for his book of poetry entitled "Landings."

P. K. Wong, PhD '68, is Associate Professor at Queensborough Community College, New York and is continuing his program of research in radiation chemistry at the Brookhaven National Laboratory.

Eugene L. Woroch, BS '44, PhD '48, has been head of the Division of Organic Chemical Research at Abbott Laboratories since 1958. Following receipt of his doctorate at Wisconsin, he was briefly associated with Mayo Clinic, and from 1951-58 was a group leader in the laboratories of the Glidden Company.

Gary Wulfsberg, PhD '71, who is presently teaching at Northland College has been awarded an Alexander von Humboldt Fellowship for study with Herr Prof. Dr. Alarich Weiss in Darmstadt, Germany for one year starting January 1976.

Dale Wurster, BS '??, reports that he is a graduate student at Purdue U. His address is 400 N. River Road, Apt. 1222, West Lafayette, IN.

Harland D. Wycoff, BS '42, MS '48, reports that his correct address is Department of Cell and Molecular Biology, Medical College Georgia, August, GA 30902.

Walter H. Zartman, PhD '33, sends a change of address to Lake Ridge Apt. 710, 1776 6th Street, NW, Winterhaven, FL 33880. Mrs. Zartman is the former Edna Nelson, BS '30. Their eldest son William obtained his PhD in Chemical Engineering from Michigan and is with Exxon in Baton Rouge. He and his wife have three children. The Zartman's younger son Charles obtained his Masters Degree from Harvard Graduate School of Business Administration and is with Hewlett-Packard Corp., Palo Alto. They have two children.

Stephen D. Ziman, BS '??, (PhD Stanford '73), is now with the Central Research Department, E. I. DuPont Experimental Station in Wilmington.

Gary A. Zimmerman, PhD '65, is Dean of the School of Science and Engineering, University of Washington, Seattle.

Badger Chemist continues to survive as a consequence of your generosity (See Editorial, p. 2). Costs keep going up. Send appropriate stimulants to:

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