



# **Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 27 October 1980**

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October 1980

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# BADGER CHEMIST

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

Newsletter 27

October 1980

## Trost and Zimmerman Named to National Academy

On April 23 word was received that four UW professors had been elected to the National Academy of Sciences. The chemistry department has two of the four: Barry Trost and Howard Zimmerman, both in the organic division. This election brings Academy membership in the department up to five, University faculty membership to 41. The two other UW



Trost

professors elected at this time were: Helmut Beinert, a 66-year old biochemistry professor who has contributed to the structural and mechanistic details of enzymes; and Luis Sequeira, a 52-year old professor of bacteriology and plant pathology who has developed methods for the control of a destructive banana disease, root rot of lettuce, bacterial wilt of potatoes. Beinert, who received his doctorate from Leipzig in 1943 joined the biochem faculty in 1950. Sequeira took his PhD at Harvard in 1952 and joined the UW faculty in 1961.

Professors in the chem department who were elected earlier are: Emeritus Professor J. W. Williams, elected in '52; Joseph Hirschfelder ('53); and John Ferry ('59).

A departmental reception in honor of Barry and Howard on the afternoon of

April 23 was delayed for an hour after a bomb threat was phoned in to the departmental office a short time before the scheduled event. A careful search of the building by university police failed to uncover any diabolical device so the festivities proceeded.

**Barry Trost** was born on June 13, 1941 in Philadelphia where he took his BA at U of Penn in 1962. He took his PhD at MIT in '65, working under Professor Herbert O. House. He came to Wisconsin that summer as assistant professor; he was promoted to associate professor in '68, to full professor in '69. He immediately developed a vigorous research program which has led to the publication of more than 200 papers and the graduation of more than 25 PhD's. His research has been versatile but always with emphasis on synthetic problems. Recently he has been using organopalladium complexes with unique effectiveness in bringing about difficult transformations. In 1976 he was named Evan and Marion Helfaer Professor, after **Evan Helfaer**, BS '20, and his wife; Helfaer was founder and president of the Lakeside Laboratories in Milwaukee until the company was purchased by Colgate-Palmolive in 1959.

**Howard E. Zimmerman** was born July 5, 1926 at Stamford, CT. After service in the US Army from 1944 to 1946, he entered Yale where he took his BS in '50, his PhD in '53, the latter with Professor James English. During the next year he was at Harvard as a Lilly Nat'l. Research Council Postdoctoral Fellow with the late Robert B. Woodward. He joined the faculty at Northwestern where he quickly developed a research program dealing with reaction mechanisms, stereochemistry, and synthesis of unusual molecules. In 1960 he joined the Wisconsin faculty at his Northwestern rank of associate professor. He was promoted to full professor after one year in Madison. His research at Wisconsin deals heavily with photochemistry of organic reactions. He has long been recognized internationally as a leader in this field. In 1975 he was named the Arthur Cope Professor, in honor of the late **Arthur Cope**, PhD '32,

who was chairman of the MIT Chemistry Department for many years and, in 1961, was president of the ACS. Howard has served as major professor of more than 45 students at Northwestern and Wisconsin and has produced an impressive number of research papers over the years.

Both Howard and Barry have received widespread recognition for their leadership in the field of organic chemistry and have been generous in sharing their expertise with others on the lecture platform and in the classroom and laboratory. *Badger Chemist* has frequently called attention to their honors and their activities so these will not be summed up here. All of us



Zimmerman

join in extending congratulations for this most recent honor.

## CENTENNIAL

The Chemistry Department will recognize, during the 1980-81 academic year, the beginning of its second century of existence. Of course, chemistry had been a part of the curriculum since 1854 when S. Pearl Lathrop joined the faculty as professor of natural history and chemistry. From then until 1880 chemistry was one of the sciences taught by the professor of natural history or, after 1868, the professor of agriculture.

In 1880, during the presidency of John Bascom, the various sciences and technical

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## BADGER CHEMIST

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

### Editor

**Aaron J. Ihde, Ph.D. '41**

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**V. W. Meloche, Ph.D. '26**

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**Harold Schimming**

Please address all communications to

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**2201 Chemistry Building**

**Madison, WI 53706**

## THE EDITOR SPEAKS

### SAME OLD RECORDING

Badger Chemist had the printer's bill for last year's newsletter paid last winter, thanks to a check of \$140 from the Chairman's Discretionary Fund. Alumni contributions came closer to covering the bill for the last issue than had been the case for over five years, thanks to a flow of larger contributions, but from a smaller number of contributors. There were 3 checks for \$100 which helped enormously — many thanks to the generous three!!! Also, there were a number of \$25 checks, each of which caused the editor to jump for joy and click his heels on the way down.

Nevertheless, the editor lives in a state of terror, fearful that the next year will bring no more such generous offerings. He would prefer a situation where many alumni sent a little. One buck per alumnus per year would provide a surplus — which could be used to help the library buy a few books now and then.

At any rate — keep the checks coming! All amounts are received graciously, and the large ones bring about a state of ecstasy. Let's make this coming year one in which the editor doesn't need to go crawling to the chairman for a bail-out. Also, take note of the next three editorials.

## BC FUND WITH UW FOUNDATION

As will be noted in the box on the last page, contributions to Badger Chemist will hereafter be turned over to the University of Wisconsin Foundation for management. This change was stimulated when

the First Wisconsin National Bank notified us that they intended to deduct a stiff monthly service charge, including a fee of 20¢ for every deposit and withdrawal. Since we have many deposits every year, this charge would decimate the account, which has been in existence since 1953 when Professor Schuette produced the first Badger Chemist, and has been free of service charges for 27 years.

The UW Foundation is happy to take over the account and the editor is happy to transfer it into their hands. Actually, there are some added benefits. The editors have handled contributions over the years as a necessary function, but one which placed them in a position which implied trust. The three editors have never been challenged on their management of the account. Nevertheless, there is always a nagging thought that possibly the editor's integrity may be challenged. It will be a relief to have the fund in an agency where reliable accounting will be available.

Equally important, contributions to UW Foundation are clearly tax deductible. Contributions to Badger Chemist were in a questionable category, although I know of no instances where the IRS questioned such a deduction.

Further, some companies will match an employee's contribution to an education fund. In the past we have been offered such matching opportunities but hesitated to accept them. With the Badger Chemist Fund managed by UW Foundation, contributions by employees are clearly eligible for matching funds from the employer.

In the future, write your checks to: University of Wisconsin Foundation — Badger Chemist. However, if you forget we will endorse your checks to the Foundation.

## WARNING — THREE YEARS TO REPORT

As indicated last year, we plan to trim the BC mailing list after the mailing in 1983. We are sure that many copies never reach their intended destination because address changes have occurred but the postal services does not forward bulk mail, nor does it notify the sender.

We have therefore set the 5-year policy in order to cut down on mailings which never reach the addressee. If we have had no communication from you between 1979 and 1984 we shall drop your name from the active file, assuming that, (1) your address is no longer valid, or (2) you are not interested.

If you wish BC to keep coming, keep in touch! Your letter need not contain a contribution to be welcome. Just a word about what you are doing is fine, although contribs are always received graciously.

## A TRIAL BALLOON

In his letter of November 25, 1979, Ambrose Nichols, Jr., PhD '39, of 2513 Creekside Road, Santa Rosa, California 95405, submitted an interesting suggestion which I quote in full below.

"Thank you again for your continuing and effective efforts in behalf of all of us in getting out the Badger Chemist. The departmental, University, and Community news is most interesting, even to one as distant in time and space as I am. And, of course, the familiar names in the This 'n' That columns, even when they number only 5 or 10% of the total, are always great to see.

"It is regrettable that the enterprise continues to be on shaky financial ground. I wonder if it might not be possible to develop a reserve or endowment fund whose income might ultimately remove that uncertainty. If \$1800 is the approximate current cost per issue, less than \$20,000 in some sort of money market paper would more than cover it. While that sounds like a lot, if the 200+ Badger Chemists mentioned in a given year came up with \$100 each, we'd have it made. And, of course, it wouldn't have to be done in one year. \$25 per year for four years would do it. Of course, this would have to be over and above what we'd need to provide to keep you going in the meanwhile. Alternatively, some of us might earmark a few bucks for this in our wills.

"Since I know you've had to deal with the reality of scrounging support thus far, this may sound like fantasy. However, if, after talking it over with your associates, you think the idea has merit, we might give it a try. Once such a fund exists, we'll at least be in business, regardless of how long it takes to reach the goal.

"Meanwhile, here is a little current help."

As an editor who feels continually harassed about getting the printer's bill paid from voluntary annual contributions, I must confess that an endowment set up with the Wisconsin Foundation for the purpose of perpetuating BADGER CHEMIST sounds very attractive. I am, however, quite dubious about raising such an amount of money within a short period of time. Unless the full amount were raised within a period of several years, BADGER CHEMIST would still be faced with fund raising problems, though of a less critical nature.

Ambrose and the Editor would welcome reactions to the above suggestion in order to get a better feeling for the practicality of such a program.

# This 'n' That About Our Alumni

**Clyde Aldridge**, PhD '52, has been promoted to Senior Scientific Advisor by Exxon Research in Baton Rouge. This is the highest scientific title awarded by the company and only two other members in the Engineering Research and Development Laboratories in Baton Rouge hold the title. Clyde holds 73 U.S. Patents in hydrogen production, water gas shift catalysts, resin hydrogenation, chemical desulfurization and coke upgrading. The recent research on coke upgrading shows significant potential in the area of liquefaction of coal. He joined Exxon in 1952 following his work in organic chemistry at Wisconsin.

**Leslie H. Andrews**, BA '27 (PhD '32 Pittsburgh), of Green Bay writes of his appreciation for news of the Chemistry Department. Dr. Andrews in another letter called attention to the death of **Jim Thayer** about whom he had inquired earlier.

**Paul R. Austin**, BS '27 (PhD '30 Cornell), sent the editor a "jump for joy" contribution and note that even after 52 years he recognized about twenty of the people mentioned.

**Gilbert H. Ayers**, PhD '30, has now been retired from U of Texas-Austin for six years but keeps busy with yard work, reading, playing clarinet with the Shrine Band, and committee work with the local ACS section. At the time of his letter last November he was busy harvesting pecans from his three trees.

**Jean Nau Baernstein**, BS '47, sent a long Christmas letter from Upland, California about family activities. Jean, who was active in Wesley Foundation as a student, continues with heavy church responsibilities. With the maturing of her six children she has been teaching kindergarten, but after four years has moved up to second grade. She finished her Masters degree in late August '79.

**Charles F. Bailey**, PhD '30, sadly reported the death of his wife, who was Mary E. Carney, BS '30 in nursing.

**George C. Bailey**, BA '09 (PhD '16 Yale), sent BADGER CHEMIST a "jump for joy" check last December but included no news about his own activities.

**Al Baker**, PhD '64 in History of Science, was in Madison last April for the meeting of the Midwest Junto. Al is now Science Librarian at U of Southern California.

**Clayton L. Baldwin**, MA '40, although retired from Sunkist laboratories, keeps busy in Corona, California. He and Claudia try to enjoy a monthly visit to their place on the California coast.

**Robert L. "Buzz" Baldwin**, BA '50 (PhD Oxford '54) reports interest in Paul Bender's retirement and says "He was one of my favorite teachers and had a

strong influence on my decision to go into physical chemistry." "Buzz" reports spending the previous year on sabbatical at the Medical Research Laboratory in Cambridge, England. He was a member of the UW biochem faculty '55-59, and since then in biochem at Stanford.

**Lyman A. Beeman**, BS '18, bolstered the cause of BADGER CHEMIST with a super contribution, for which, many thanks. He reports that he left the University in 1918 with his degree, but without having completed his thesis, to do technical work for Army Ordnance. His letter remarks that he was saddened by the fact that most of his good friends in college joined the Army and were killed in France, some of them within a few weeks of leaving school. He now feels that his thesis professor, Lewis Kahlenberg, was on sound ground in his opposition to the war.

**Robert J. Beuhler, Jr.**, PhD '69, is a member of the Chemistry Department of Brookhaven National Laboratory, doing research in mass spectroscopy of macroions. He reports enjoying summer sailing and swimming with his wife Lois and three sons.

**Daniel E. Blake**, BS '70, is Quality Control and Research and Development Manager of Northern Laboratories, Inc. in Manitowoc, an independent subsidiary of S. C. Johnson Inc. Since his company produces shampoos and bubble baths, his small daughter describes his work as, "Daddy makes bubbles."

**Monte Blau**, PhD '52, has been named co-recipient of the Hevesy Nuclear Medicine Pioneer Award for 1980. Monte is chairman of the department of nuclear medicine at SUNY-Buffalo. The award is sponsored by the Society of Nuclear Medicine.

**Victor Bloomfield**, PhD '62, is Professor of Biochemistry and Head of the Department at University of Minnesota in St. Paul. He also has a joint appointment in the Chemistry Department but confesses to have drifted substantially from his early training in physical chemistry.

**Hans Breuer**, MS '48, is Senior Research Manager in Toiletries Research with Carter-Wallace Inc. in Cranbury, New Jersey. He was in Madison last June to pick up his son Michael who had just completed his sophomore year.

**Wilbur Bridgeman**, PhD '37, writes from Worcester, Massachusetts that he looks forward to the annual update on what is happening in Madison.

**Lawrence F. Brough**, PhD '79 with West, is now with USDOE Ames Laboratories, Iowa State University, Ames, Iowa.

**Lynn E. Brower**, MS '71, reports that BADGER CHEMIST No. 26 was the first issue he had seen since graduation. We are not sure about the cause of the oversight but welcome him on the mailing list. Lynn came to Wisconsin from his BS at Ohio State and took his Masters with Professor Blaedel after which he was called to active duty in the Air Force. After four years he became Senior Chemist with Standard Oil (Ohio) where he is in the Fuels and Lubricating Division. He is working for a PhD in Polymer Science on a part time basis at the University of Akron.

**Bertie L. Browning**, PhD '28, is retired from the Institute of Paper Chemistry and lives at 21 Cherry Street, Appleton, Wisconsin.

**Ray Brumblay**, PhD '38, retired from the Marathon County Campus of the UW-Wausau two years ago. He reports having dinner with the Meloche's the past summer and says "they are both charmers." He also extends his best to Ed Larsen, Bette Germann, Leta Roettiger, and Harold Schimming and especially to Dennis Evans. "He did a fine job on son Bob when the latter was taking analytical chemistry."

**Laura and Clifford Burg**, BS '37, again report enjoying the BADGER CHEMIST but indicate no new changes since moving to Appleton from Whittier, California. Laura will be remembered by many as Laura Drescher when she was a departmental secretary in the 30's.

**Howard B. Burkett**, PhD '42, is teaching and doing research at De Pauw University. He and Lucille are happy that one of their sons operates the farm on which Howard grew up. They visit the old homestead frequently.

**Joseph Calabrese**, PhD '71, has left Nicolet Instruments and is now with the Senior Research Department of Du Pont in Wilmington. For a number of years following completion of his doctorate he was with the UW Chemistry Department as an X-ray Specialist.

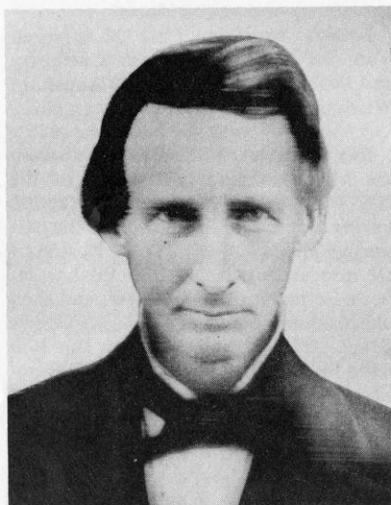
**Donald D. Cameron**, PhD '53, is still with Du Pont in the polymer area. He writes that his area is managed by **T. B. Cameron**, BS '51. He also sends news of **E. Warnhoff**, PhD '53, of U of Western Ontario, who visited the group after attending the Washington ACS meeting in September '79. Warnhoff reported that **R. J. Hight**, PhD '54, is in Bethesda, MD. Others on the Du Pont crew are **George N. Sausen**, PhD '53 and **Roy Starn Jr.**, PhD '54.

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## Centennial

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fields were growing to the point where they were each becoming the province of a single professor. William Willard Daniels, Professor of Agriculture and Chemistry, turned his agriculture responsibilities over to the botany professor, William Henry, and became Professor of Chemistry and chairman of a one-man department. Daniels was responsible for all chemistry courses, with assistance of two part-time students, Charles R. Van Hise and Magnus Swenson. Emphasis was on analytical chemistry. Organic chemistry had little serious attention before 1885



Lathrop

when Homer Hillyer joined Daniels; physical chemistry was introduced in 1896 by Louis Kahlenberg, a recent PhD from Leipzig.

When Daniels retired in 1907, the chairmanship of a five-man department went to Kahlenberg. Graduate work was now firmly established; the first PhD went to A. T. Lincoln in '99, only 7 years after Wisconsin granted its first doctorate to C. R. Van Hise in geology. During the next decade, 13 more doctorates were completed in chemistry, mostly under Kahlenberg and Victor Lenher.

Kahlenberg was also responsible for creating the Chemistry Course when he became chairman. This permitted more thorough training for chemical industry or graduate study than had been possible under the college major in chemistry. Interest in the subject increased rapidly. When the country entered World War I in 1917, Chemistry had an 8-man faculty; four of them, Walton, Lenher, Mathews, and Carleton left for chemical warfare duties, leaving Kahlenberg, Fischer, Krauskopf, and Schuette to teach the students.

When the war ended, the professors who served in the war effort staged a palace revolt which led to the demotion

of Kahlenberg from the chairmanship. Mathews was appointed to the position, beginning a leadership role which lasted 33 years and saw the department grow and maintain a position of national leadership. Mathews was an able judge of men and brought in a succession of young men who quickly attracted distinction in their areas: Adkins and McElvain in organic—and later Johnson and Wilds, and Goering and van Tamelen; Daniels in physical, Williams in colloids, Hirschfelder in theoretical, Ferry in high polymers, Meloche and Bender in instrumentation, Larsen and King in inorganic, Willard in radiochem; Hall, Blaedel and Shain in analytical. When Mathews passed on the chairmanship to Daniels in 1952 he had a sound basic department that could be expanded soundly in new directions by successive chairmen.

and the local ACS section. They will be focused on the present state of chemistry with a look at probable future directions. In contrast to customary ACS lectures which emphasize narrow areas of current research, they will deal with broad general areas of interest to the university community as a whole.

The first lecture, scheduled for late September, will be given by James D'Ianni who is now President of the American Chemical Society. Jim is a 1938 Ph.D. in organic chemistry (Adkins) who has had a distinguished career in the rubber industry.

Subsequent lecturers will include Herbert Laitinen of U of Florida in October, Wm. O. Baker, Head of Bell Labs in

## Centennial Plans

A centennial committee composed of Aaron Ihde, chairman, Ed Larsen, John Willard, and Bob Siegfried has been developing plans to mark this milestone in the department's history. The year's program has a three-pronged focus: lectures, exhibits, history.

### Lectures

Four centennial lectures are planned, to be jointly sponsored by the department

## This 'n' That...

(Continued from page 3)

**Charles F. Campana**, PhD '75, is Assistant Professor at the University of New Mexico.

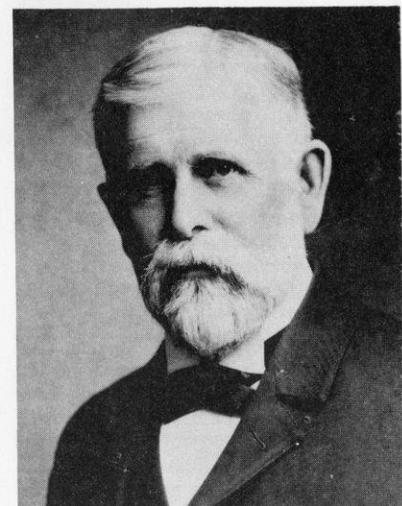
**William T. Carnall**, PhD '54, continues as senior scientist and group leader in actinide chemistry with Argonne National Laboratory. Other Willard alumni at Argonne include **John Miller**, PhD '71, and **Myran Sauer**, PhD '59.

**Burt H. Carroll**, PhD '22, writes with deep respect of Farrington Daniels with whom he shared some canoe and walking trips. He reports that the list of BC's in the Kodak Laboratories would be a long one. He was there for 27 years and although partly retired teaches with the Photoscience faculty at the Rochester Institute of Technology.

**Albert S. Carter**, PhD '27, remarks that "The retiring professors had not even started their graduate work by the time I left Madison." He is retired in Fort Lauderdale.

**R. Vincent Cash**, PD '74, writes in his Christmas note that his daughter Karin is in her second year of teaching English at Hong Kong Baptist College. He had minor surgery the previous winter and is back in

(Continued on page 6, col. 2)



Daniels

April '81, and Albert Cotton of Texas A&M, in May '81.

### Exhibits

During the year the three exhibit cases in the Daniels Chemistry Building will carry a series of exhibits depicting chemistry and the university at various time periods (approximately 15-year intervals) from 1848 to the present. Each monthly set of exhibits will deal for the specific time period, with, (1) the state of chemistry, (2) the town and campus, (3) personnel and activities in the chemistry department. Aaron Ihde and a grad student, Sheldon Hochheiser are in the process of planning and setting up the exhibits.

### History

As announced in *Badger Chemist* #25, Aaron Ihde is writing a centennial history of the department which is to be published as a book. This history is intended as more than a chronicle of our chemistry department at Wisconsin and will deal with the growth of chemistry and chemical education since the UW was founded in 1848. The author is particularly interested in understanding the factors which have a role in the rise of a discipline to distinction within an institution.

## NEWS ABOUT OUR FACULTY

The chemistry department now has a faculty of 35 profs, 1 associate prof, 4 assistant profs, 2 visiting profs, 2 lecturers, 4 lab directors, and 6 emeritus profs. The lab directors are Glen Dirreen—general, Bob Lavine—analytical, Paul Schatz—organic, and E. M. Turner—physical.

**Paul Bender** underwent heart by-pass surgery shortly after retirement and reports that he now feels great. He is seen very regularly on the second floor of the Mathews Wing of the building where most of the critical instruments are housed. He appreciates lack of responsibility for keeping the instruments operative and was happy to turn that problem over to **Thomas Farrar**.

**Richard Bernstein**, who was a member of the physical division and TCI during the 60's, was in Madison on April 18 and gave a physical departmental colloquium. Dick left Wisconsin in '74 to join the faculty at Texas and is now at Columbia.

**Elliott L. Blinn** is visiting professor during the fall semester. He is associated with the freshman chemistry program while on leave from Bowling Green State in Ohio.

**Charles P. Casey** is an invited speaker at the 16th Midwest Regional Meeting of the ACS to be held in Lincoln, Nebraska in November. He will be speaking at the symposium on organometallic chemistry. Chuck is also a member of the NSF chemistry division which is concluding an external peer review of its programs. His wife, **Martha**, who is associated with the Chancellor's office, is serving as the chairman of the Wisconsin ACS section this year.

**Phillip Certain** is now chairman of the physical division, succeeding **Dan Cornwall** who has held the position in recent years.

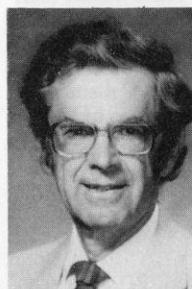
**Dennis Evans** has lectured during the past year at the National Bureau of Standards, the Puerto Rico section of the ACS, U of Tennessee, and the Frontiers of Chemistry Lecture Series at SUNY-New Paltz. He has also presented an ACS short course on electroanalytical chemistry in Philadelphia with **Paul Whitson**, PhD '74; lectured in a UCLA short course on organic electrochemical synthesis; and at Ohio State where he discussed advanced instrumental methods in electrokinetics. He continues through '81 as a member of the chemistry advisory committee, NSF where he is involved as a member of the peer review committee on chemical analysis.

**John D. Ferry** gave an invited lecture at the IUPAC Congress in Mainz, Germany in September '79; he also gave lectures at Chemische Wuerke Huls and U of Clausthal. In October '79 he was lecturer in

the seminar school on polymer rheology sponsored by the Servian Chemical Society at Dubrovnik, Yugoslavia. He also completed the 3rd edition of the book, "Viscoelastic Properties of Polymers."

**Marie Fisher**, widow of Professor Emory Fisher who was the previous editor of BADGER CHEMIST, keeps busy keeping track of her children and grandchildren. She reports a visit to Rolla, Missouri at the time of the death of the Fisher's good friend **Walter T. Schrenk** who received his PhD at Wisconsin in 1923.

**Joseph O. Hirschfelder** was honored in '79 with an honorary ScD by Marquette University and received a similar degree at University of Southern California at the mid-year commencement exercises January 31, '80. The honorary degree citation at USC read in part "an exemplary university professor, deeply and widely respected as a devoted teacher and caring adviser to the students who surround him, even as he pursues with breathtaking imagination and success the most rigorous and challenging research."



Larsen

**M. Leslie Holt** turns up at the chemistry building frequently and is clearly enjoying golf and skiing in his retirement.

**Edwin M. Larsen**, who has been associate chairman for the past three years under Evans, is continuing in that capacity under Trost.

**V. W. Meloche** suffered a stroke in Arizona where he and Patty were spending the winter months. It is a pleasure to report that Mel has shown good recovery. He and Patty returned to Madison in the spring and have spent the summer here.

**Catherine Hurt Middlecamp**, PhD '76, has returned to Madison with her husband and is serving as lecturer in the freshman chemistry program this year.

**Marion O'Leary** now holds a joint appointment in the departments of chemistry and biochemistry, thus formalizing a working relationship that has existed for years. His office and teaching continues in chem, but he will do a small amount of teaching there. His research continues to move toward plant biochem. He spent a month last winter in the Australian Natl. U in Canberra learning plant physiology techniques in the Dept. of Environmental Biology.

**Steve Nelsen** is going to Berlin next January on a NATO travel grant to continue his collaboration with Dieter Asmus's Pulse Radiolysis group.

**Ernst Schaumann** has joined us this semester as visiting prof in the organic division and is teaching one of the organic courses. He is regularly associated with the University of Hamburg.

**John Schrag** presented technical lectures in spring '79 at the Technical High School in Zurich and at the School of Physical Theory in Les Houches, France. In June '80 he served as co-chairman of a joint U.S.-France seminar workshop on "Dynamics of Polymer Solutions and Melts" which was sponsored jointly by NSF and the French Center for Scientific Research. The meeting was held in the Lac du Flambeau area of Wisconsin with an attendance of nearly 100. In November '80 John will be in California for a joint meeting of the Division of Polymer Chemistry-ACS and the Society of Polymer Science of Japan as an invited lecturer in the 10th Biennial Polymer Symposium. He has also given a number of invited lectures in the U.S. during the past year. The Schrag's son, Jeff, entered UW-Madison this fall.

**Bassam Shakhashiri** was awarded one of 22 undergraduate teaching improvement grants funded by the UW System. He plans to work on the effective use of chemical demonstrations in teaching UW System undergraduate courses in chemistry. He has also been named a Danforth Associate. He is one of 405 national recipients honored by the Danforth Foundation, an educational, philanthropic organization dedicated to improve teaching. Danforth Associates attend national conferences on new teaching methods and student-faculty relations.

**Alan L. Soli**, PhD '78 with Schrag, has left industry to join the department as lecturer in analytical chemistry.

**Barry Trost** and his family lived for two months in Denmark where he was visiting prof at U of Copenhagen. They took a beautiful Nordic round trip during which Barry lectured at universities of Oslo, Goteborg, Lund, Odensee, and Aarhus. They later took a one-month tour in an Opal Kadette through Switzerland, Germany, and Austria. Barry gave additional lectures in a number of German universities and industrial sites. They finished with a one-week stop-over in England where he gave a plenary lecture at the 6th National Conference on Organic Synthesis at Cambridge. In October '79 Barry was the Dains Lecturer at University of Kansas and the Ritter Lecturer at

## Faculty...

(Continued from page 5)

Miami U in Ohio (the school of the late Howard Ritter who was briefly a member of the UW chemistry faculty in the forties) and Presidential Lecturer at Arizona State U. In December '79 he was plenary lecturer at the First International Kyoto Conference on Organic Chemistry and gave additional lectures in Kyoto in Tokyo. While in Japan he had a reunion with Wisconsin's family of postdoctoral associates including Drs. S. Kurozumi, K. Hiroi, Y. Matsumura, K. Yamamoto, Y. Nishimura, Y. Tamaru, M. Ochiai.

**Edwin Vedejs** has been awarded a Romnes Faculty Fellowship by the Graduate School Research Committee. Such fellowships include \$25,000 for research purposes from the Wisconsin Alumni Research Foundation. The awards are named for the late H. I. Romnes, chairman of the board of A.T.&T. Romnes was a UW alumnus who served as former president of WARF trustees. Vedejs has been recognized internationally for procedures which he has developed for synthesis of organic molecules as well as for his contributions to understanding mechanisms of organic reactions. He is an earlier recipient of an Alfred P. Sloan Fellowship.

**John P. Walters** and a student, Alexander Scheeline, were named winners of the 1979 Meggers Award from the Society for Applied Spectroscopy. More recently the same society announced that John is the winner of the first Lester W. Strock Award for the most outstanding publication in the field of Analytical Atomic Spectroscopy published during the past year. The award was based on research presented in 3 papers by John and two students, D. M. Coleman and R. J. Klueppel.

**Dorothy Walton**, widow of Prof. James H. Walton who was on the faculty from 1907-48, writes that she was pleased to get the last number of BADGER CHEMIST and hoped to continue receiving future issues. She found people mentioned whom she knew while in Madison and says "it's good to know that the chemistry department continues to thrive." Mrs. Walton lives in New York City with daughter Marsha within walking distance of Lincoln Center.

**Robert West** organized the first symposium ever on oxocarbon chemistry which was held in Washington, DC in September '79 in connection with the ACS meeting. The symposium brought participants from six foreign countries and provided opportunity for a reunion between chemists who carried on such research at Wisconsin. These included Joseph Niu, PhD '62, Senior Research Chemist at Wyandotte Chemical Co., Mitsuo Ito, PD '62-63, Prof. of Chemistry at Tohoku U in Japan, and Dave

## This 'n' That...

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good health. He continues on the faculty of Central Connecticut State College.

**William O. Caster**, BA '42, MS '44, (PhD '48 MN) is in the Department of Foods and Nutrition at University of Georgia.

**James C.W. Chien**, PhD '54, failed to receive a copy of the BADGER CHEMIST which dealt with Professor Willard's retirement despite the fact that he was chair-

Eggerding, PhD '75, a research chemist at AMOCO. In June '80 Bob visited China as a participant in the Tripartite Symposium on Organometallic Chemistry in Beijing, China, Japan and the U.S. were co-participants at this first International Symposium in any area of chemistry to be held in the People's Republic. He also lectured at Nanjing U and the Academy of Sciences Institute in Shanghai. Bob spent two weeks in Japan prior to the meeting giving lectures at several universities and climbing Mt. Hodake, the highest peak in the Japanese Alps.

**Howard E. Zimmerman** received the Gregory and Freda Halpern Award in Photochemistry at the 162nd annual meeting of the New York Academy of Sciences in recognition of outstanding contributions to physical organic chemistry and specifically for his work on dienone rearrangements and applications of Mobius system formulations. Howard also gave numerous lectures in the U.S. and Germany during the year. During his European trip he enjoyed visits with former students: Reinhart Keese (now Prof. at Univ. Berne), PD at Wisconsin in '61; Dietrich Döpp (now Prof. at Duisburg), PD at Wisconsin in '66; with Heinz Dürk (now Prof. at Saarbrücken), PD in '61; with Christa and Werner Braig now at U Regensburg, both PD's at Wisconsin in '70; with Wolfgang Eberbach, now Assistant at Freiburg, PD at Wisconsin in '72. He also visited Prof. Hans Musso who spent a sabbatical at Wisconsin in '64; and with Prof. Wolfgang Kirmse at Bochum who also spent a sabbatical at Wisconsin in '70.

If your favorite professor was not mentioned above, blame him, not the editor! Ye Ed requests statements of recent activities early each summer. Some profs report promptly every year, some tardily, some at rare intervals, and some not at all. We do learn some things about the latter group through the grapevine, corridor gossip, community gossip, CEN, The Hexagon, and Science and include such items except when slanderous. Naturally, we would prefer an in-person report from these overly humble colleagues rather than depending on serendipitous information. Ed.

man of the retirement activities. Sorry about that Jimmy. We trust you received the second copy sent in December.

**Edward Clennan**, PhD '77, Assistant Professor at U of Wyoming, was awarded a Research Corporation starter grant this year.

**Ralph Connor**, PhD '32, retired Vice President of Rohm & Haas was one of the 20 Gold Medalists of the American Institute of Chemists writing on "Chemistry and the Profession is 2000 AD — Some Personal Projections." His piece was published in *The Chemist* in May '79.

**Don Cromer**, BS '47, PhD '51, continues his long career in x-ray crystallography at Los Alamos. His Christmas note mentioned 23 different bird species in their yard that day.

**Guido Daub**, PhD '49, continues as Chairman of the Chemistry Department at U of New Mexico. Mrs. Daub was the former **Katharine Powell**, MA '48. She is now retired from teaching math in the public schools but continues active with many interesting projects. Their oldest son is an Assistant Professor of Organic Chemistry at Harvey Mudd. He received his PhD at Stanford under **van Tamelen** followed by a postdoctoral year with **Bill Johnson**, both formerly of the UW organic group. Their daughter, Betsy, is a research assistant in biochemistry at Brandeis. Her husband is a graduate student in analytical at Northeastern. The youngest son, John, is in graduate school at Cal Tech where he is studying under **Bob Ireland**, PhD '54. Guido isn't sure why all three children wound up in organic chemistry but suspects that the fact that they were told when they were children that if they didn't grow up to be organic chemists, they would have to go to bed without supper may have been a factor.

**Roger DeKock**, PhD '70, taught at American University in Beirut in 1972-76 and is now at Calvin College in Michigan. Together with Harry B. Gray at Cal Tech he has coauthored a text *Chemical Structure and Bonding* published by Cummings in Spring of '80.

**Robert DeKosky**, PhD '72, was in Madison last April for the meeting of the Midwest Junto. Bob was recently promoted to tenure in the history department of U of Kansas and also saw publication of his book, *Knowledge and Cosmos: Development and Decline of the Medieval Perspective*, by University Press of America.

**Armand J. de Rosset**, PhD '39, was honored recently by the Chicago Association of Technological Societies with their Merit Award at their regent annual banquet. For 40 years he was an investigator at Universal Oil Products. He retired recently as Director of Separations Research

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## OVERVIEW 1980

The year 1979-1980 was characterized by a policy of holding the line, rather than embarking on exciting new ventures. The economic decline continued to create problems at all levels although placement of graduates was possibly a bit better than in recent years. The UW has a new proxy, the Chemistry Department, a new chairman and a new assistant professor.

### State of Wisconsin

When Chancellor Lee Dreyfus of UW-Stevens Point campaigned successfully for the governorship in 1978 he hit hard at the fact that the Democratic governor and legislature had piled up a state surplus when tax receipts exceeded budgeted expenditures. He won election by promising to make cash refunds to taxpayers to get rid of the accumulated surplus, while collecting no more taxes than needed to cover budgeted expenses. He had a glorious first year in which tax refunds were made and tax rates were reduced. In his second year, with inflation growing, he found himself short of funds. Since he had promised no new taxes during his campaign he has been seeking to persuade the legislature to collect new funds by various devices for raising income without calling them taxes. The Democratic-controlled legislature has been less than enthusiastic about a proposal to cancel the per gallon gasoline tax and add a flat sales tax to gasoline sales, for example.

The governor has also issued an edict to all state agencies, including the UW, to not spend 4.4% of their 1981 budget. In the light of fixed expenditures, coupled with inflation, the edict is creating genuine problems for state agencies as well as Wisconsin cities receiving state support for education and other services.

Governor Dreyfus also saw a brief boomlet for the Republican vice-presidential nomination fizzle quietly in July.

### City of Madison

Madison continues to live up to its reputation of Mad City. Crime, frequently associated with drug and alcohol abuse, is more common than is desirable and the city fathers are hard pressed to achieve control. The Main-King Street Area southeast of Capitol Square has become known as a 'combat zone.' And when a 'massage' parlor opened for business on Regent Street last spring, within two blocks of St. James Church, the City Attorney was stymied for weeks before bringing about closure.

Finally, after nearly a century of effort, Madison opened its controversial Civic Center and Auditorium in the form of a remodelled Capitol Theater-Montgomery Ward building on State Street across from the Orpheum Theater.

The city is also progressing with its face-lifting of State Street. Redesign of the two blocks nearest the Capitol is completed and work on the next two blocks has started. When fully completed State Street will have a narrow pavement closed to all wheeled vehicles except buses and bicycles, but with broad walkways on both sides. The two blocks nearest the University have been closed to all wheeled traffic for several years and converted into a pedestrian mall (described and pictured in BC #23). Hopefully, the refurbished State Street will become safe and attractive when completed.

Movement in the city was paralyzed for more than 2 months in late spring when the city-owned bus company was struck by its employees. A highly controversial agreement was finally reached in early July between city and union, with employees to receive a 37% increase in wages over a 3-year period. The union held out until the last days for an automatic cost-of-living increase in addition. Taxpayers are angry about the settlement since tax money provides a subsidy for bus operation. Fares will also increase. The strike was unfortunate since riders were seriously inconvenienced for two months. The bus system had been steadily improving for the past several years with ridership increasing at a steady rate. The strike interfered with that momentum.

### UW System

BC No. 26 reported that Edwin Young was stepping down as president of the system in order to return to the classroom during the remaining years before his retirement. The presidency is in the hands of Robert O'Neil whose profile is developed elsewhere in this newsletter.

Enrollment in the University of Wisconsin System of 23 units around the state is reported at the end of one week of classes at over 154,000, an increase of 4,000 over a year ago. Interestingly, an enrollment increase has taken place in all units of the system, including several units that had been suffering enrollment decreases in recent years.

### UW Madison

Enrollment at Madison after one week of classes stood at 40,790, a small increase over a year ago. As expected, engineering saw an enrollment increase from 4,128 a year ago to 4,566. The business school, also expecting an increase, saw a slight drop from 1,196 in '79 to 1,176 in '80. The College of Letters and Science, the oldest and largest college in the Madison unit anticipated a probable decrease because students nowadays have been moving strongly toward engineering and business and avoiding the liberal arts on account of employment problems. However, L&S increased from 13,017 to 13,807.

The enrollment increases create strains in various parts of the Madison unit. Students were turned away in a number of engineering courses as well as in business and journalism courses. Various courses in L&S were closed prior to the end of registration week. The Chemistry Department, which has a proud record of accommodating all students, had to turn away about 200 students who wished to enroll for freshman chemistry because of lack of locker space in the freshman labs.

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The principal news event of the past academic year was a teaching assistant strike which started in April and lasted slightly over a month. Although the Teaching Assistant's Association threw up picket lines around classroom buildings the picketing was not particularly effective except in some departments of L&S. Students and faculty crossed picket lines in large numbers, although a fair number of students did observe picket lines and some faculty members refused to cross such lines by holding classes off campus.

Perhaps the reason the strike was not as effective as an earlier strike in 1970 may be attributed to the fact that although more than 1,600 TA's are employed at the university, less than 550 were members of the TAA. In addition, the TAA barely achieved the 2/3 majority vote necessary to call a strike.

The administration and faculty generally took a hard line toward the aims of the TAA, which were based primarily upon a demand for TA input into academic planning, as well as the question of whether research assistants assigned teaching duties as a degree requirement may be properly considered TA's and, therefore, covered by the TAA contract with the university.

Actually, the contract between the university and the TAA had expired about a year earlier, but teaching proceeded up to April with the university meeting all agreements of the previous contract, but refusing to take on desired provisions giving TA's a larger role in academic planning.

The administration held firm in opposition to the new demands and early in May the striking TA's returned to the classroom without having won their demands.

Classes began this fall without serious threat of work stoppage. Chancellor Shain notified the TAA officers last summer that unless the TAA gives up its demand for a role in academic planning the university will no longer consider itself bound to bargain with union.

The Chemistry Department was not seriously inconvenienced as a result of the strike. Only a few chemistry TA's went on strike and most students continued to attend chemistry classes.

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## Overview...

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The principal problem the Chemistry Department encountered was in connection with supplies of liquid nitrogen. The department has a large holding tank outside the loading dock which is replenished by truck at approximately monthly intervals. The TAA recognized the vulnerability of chemical research to lack of liquid nitrogen and threw pickets across the service road into the loading dock in order to prevent entry of supplies in general, and liquid nitrogen in particular. Chairman Evans anticipated the problem by having the tank filled to capacity shortly before the strike began, but the length of the strike necessitated replenishment while the drive was picketed.

A large tank truck of liquid nitrogen was driven to Madison by a union teamster, but since the teamster's union refused to cross picket lines the driver left his cab and turned the truck over to his supervisor from the company who backed the tanker into the drive and unloaded the nitrogen into the supply tank. A rather ugly confrontation took place with pickets threatening to throw themselves under the wheels of the truck, but refrained when the driver insisted he would keep moving. Pointed remarks flew back and forth. Professor Zimmerman earned the enmity of the pickets and his picture was pointedly published in the *Daily Cardinal* as a serious enemy of the TAA.

The nitrogen was successfully delivered and the truck, guided by police, was slowly moved through the pickets who had massed at the exit of the service drive. Research went on uninterrupted.

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As a consequence of the governor's 4.4% freeze on budgeted spending the university regents added a one-time tuition increase of \$30 throughout the system this fall. Chancellor Shain was openly critical of the governor's action. Governor Dreyfus retorted that the university must learn "to curb its appetite" and suggested that Madison might cut its enrollment, perhaps by not enrolling a freshman class. Shain deplored the remarks, arguing that Madison had been on starvation rations for a decade and was in danger of accelerating a "drift toward mediocrity." President O'Neil, at his official inauguration on Sept. 5, professed his support for Chancellor Shain's position.

Eliminating of the freshman class at Madison would, of course, eliminate tuition income and thereby exacerbate financial problems. Further, it would endanger the graduate program by eliminating a large part of the support provided graduate students through teaching assistantships.

## This 'n' That...

(Continued from page 6)

and now lives in Sarasota, Florida. In recent years he worked on the hydrogenation of coal at very high pressures and temperatures. He holds patents for hydrocarbon conversion and petrochemical separation.

**Armin de Meijere**, Visiting Professor '78, writes that he has accepted a call from the University of Hamburg. He had formerly been at Gottingen.

**Al Denio**, Visiting Professor in the Department on several occasions, continues in his position at UW-Eau Claire.

**Edgar A. Dieman**, MS '33, of Crown Point, Indiana sent his contribution with a Merry Christmas, but no news about his activities.

**Edward B. Dismukes**, PhD '53, was a departmental visitor last December. He is still in Birmingham.

**Irving Domsky**, BS '51, PhD '59, is now director of his own consulting laboratory, Allied Chemical Laboratories, Ltd., in Chicago. His firm specializes in problems dealing with waste water and detergents. Ivy has been active in recent years in development of thin layer chromatography as an analytical tool and took part in a TLC course last June. The course was sponsored by the Chicago Chromatography group.

**Dietrich Döpp**, PD '66-67, was in Madison in July '79 to give a special organic seminar dealing with "Indolenine-1-oxides: Photochemistry, Cycloadditions and Fast Rearrangements." He is with the Gesamthochschule Duisburg.

**Margaret R. Draeger**, BS '70 (MD '74) writes that her medical practice in Munsey, Pennsylvania continues successful and

As a move to absorb part of the 4.4% saving in Madison, Chancellor Shain has frozen purchase of books by the libraries this year. Other units have frozen hiring of replacement personnel, or deferred maintenance. None of these moves fully covers the mandated cuts, while postponing serious expenditures into the future.

Hopefully, the crisis will be weathered without permanent damage to the university. Many of us remember the crises created by other new governors upon taking office: John Blaine in 1920, Phil La Follette in 1930, Julius Heil in 1938, Walter Kohler, Jr. in 1950, Pat Lucey in 1970. In the short run the UW has been hurt, in the long run it has been tough and resourceful, and respected by its constituency. Perhaps, because it has customarily survived on lean rations, it can survive another governor who seeks to solve his problems by trimming 'fat' from the university.

challenging. She enjoys reading about her former professors who never thought she would amount to anything, Dr. Yu in particular.

**Norman A. Draeger, Jr.** received his MS degree in August '79 under Professor Cornwell.

**Timothy Drahnak**, PhD '79 with West, is now in the Central Research Laboratories of 3M Company, St. Paul.

**Eleanor Pennington Dunn**, BA '28, who worked at Philadelphia Quartz for a number of years and who served several years as an Instructor in the Chemistry Department at Wisconsin during the post-war crush, writes that she is housebound as a result of arthritis and circulatory problems. Nevertheless, she appears to retain her good humor and spirits and takes great pleasure in the achievements of her family. Eleanor lives at 3050 Elm Drive, Allentown, PA.

**Luis Echegoyen**, PD '74-75 with Nelson, was recently promoted to Associate

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## TROST BECOMES EIGHTH CHAIRMAN

Barry Trost, as the new departmental chairman, inaugurates the second century of chemistry as a departmental discipline. He has, in common with W.W. Daniells, the distinction of inaugurating a new century of chemistry at the University of Wisconsin. He is also considered a dedicated teacher, as was Professor Daniells. There the similarity ends.

Daniells chaired a one-man department during his first five years and was responsible for all branches of chemistry. Trost is chairman of a department with more than 40 professors, a large staff of back-up personnel, and a massive student body. There are more than 3000 students taking general chemistry courses this fall. Daniells taught all freshmen and all advanced students in chemistry in the early years. He stressed analytical chemistry; Trost works in synthetic organic.

Daniells did no research work; Trost is one of the most widely recognized young research chemists in the country. There was no program of graduate work in the chemistry department until the last decade of Daniells' chairmanship but it developed very rapidly after Louis Kahlenberg joined the staff in 1896. The department granted its first PhD to A.T. Lincoln in '99. When Daniells retired in 1907 the department had granted 8 doctorates; 6 had worked under Kahlenberg, 2 under Edward Kremers in pharmaceutical chemistry. Trost, in his first 15 years, has guided more than two dozen students to the doctorate. The future of the department at the start of its second century appears to be in good hands. Your departmental colleagues wish you a long and successful chairmanship, Barry.

## In Memoriam

Following recent precedents, this section will carry obituary notices, not only of deceased alumni of the chemistry department, but of friends of the department, the university, and the academic community. In the case of alumni we frequently find problems in obtaining information, especially when we have no correct address. Such short items are generally picked up from *CEN*, *Science*, *Wisconsin Alumnus*, and *The Hexagon*. We are very appreciative when survivors send us notices since, in such cases, we are able to include more information.



**A. Clinton Andrews**, BS '24, PhD '38, died at his home in Manhattan, Kansas on April 17, 1980. He was Emeritus Professor at Kansas State U, where he taught from 1926 until his retirement in 1971. He is survived by his wife,

Jessie, and his son, Frank, who is professor of chemistry at U of California-Santa Cruz. Frank was a faculty member at UW for a short period in the sixties.

**William P. Baker**, BS '49, MS '51 (PhD, IA State, '55) is reported deceased from his address in Chaddsford, PA.

**Frederick L. Browne**, PhD '20, died on November 20, 1979 at age 84 after a lengthy illness at the Oakwood Lutheran Home on Madison's west side. He was born in New York City, studied chemistry and physics at Cornell, and joined the Forest Products Lab in 1918 where he had a role in development of water-resistant casein glue for binding plywood used in the building of planes for the Air Force. After the war ended he completed his higher degrees at the UW and continued his career at Forest Products. He was active in Episcopal Church activities in Madison for many years as a lay minister. A son is a nuclear physicist at Notre Dame.



**Paul C. Cross**, PhD '32, died September 20, 1978 at age 71. Following his doctorate under Professor Daniels he held postdoctoral appointments at Wisconsin, Caltech, and Stanford; then went on to successive faculty appointments at Stanford,

Brown, Washington (Seattle) and Mellon Institute, each with greater responsibilities. He joined the Washington faculty in 1949 as departmental chairman, the Mellon Institute in 1961 as president. At each institution he left a profound impact because of his deep wisdom and his capacity for dealing with others on a personal basis. The U of Washington has established a Paul C. Cross Lectureship; Bryce L. Crawford, Jr. (PhD Stanford '37), his first graduate student and now at U of Minnesota, was the first Paul C. Cross lecturer on May 8, 1980 when he discussed "Relaxation in liquids studied from infrared band shapes."

**Leslie F. Downs**, MS '32, died in Madison on April 5, 1980 at age 79. Between 1928 and 1959 he was a chemical engineer with the Forest Products Laboratory.

**Norman G. Fisher**, PhD '34, died June 23, 1979 in Wilmington, Delaware. He joined Du Pont shortly after receiving his degree and became supervisor of the Technical Information Division. He has been retired since '73.

**Niilo V. Hakala**, PhD '43 with Williams, died in Summit, New Jersey on November 27, 1979 at age 62. He joined Exxon Research and Engineering in '43 and was active in various overseas assignments before becoming VP for Petroleum Research. He became President of ER&E in '68.

**Alex Kemp**, Postdoc with W. S. Johnson in '51-52, died in November 1977 in South Africa. He had retired from the University of Rhodesia in Salisbury.

**Ignace J. Krichma**, BS '27, died in Newark, Delaware in August 1978.

**Willard Madson**, MS '27, PhD '31, passed away in September, 1979 according to a note from Les Holt.

**Ella Gilfillan Mathews**, widow of J. Howard Mathews, longtime chairman of the Chemistry Department, passed away on April 4, 1980 at Attic Angel Nursing Home. She was born in 1883 at West Salem. After graduating from the UW in 1907 she taught school in the New Salem area for two years before marrying Dr. Mathews soon after he joined the faculty. She is survived by daughter Jean who is the wife of Charles C. Watson, PhD '38, emeritus professor of chemical engineering.

**Arthur C. Nielson**, BA '18, died on June 1, 1980. In 1923, with money borrowed from classmates, he started a business which studied movement of food and drug products in retail stores. The venture developed into one of the largest marketing research firms in the world.

One unit measures TV audience preferences (the Nielson Ratings). As a senior, Arthur was captain of the UW tennis team. A son later served in the same capacity. In the mid-sixties the family contributed \$2.1 million dollars to the University for the construction of a magnificent indoor tennis stadium which has not only contributed significantly to the strength of the UW tennis program, but has made tennis a year-round sport in the university community. The Nielson Tennis Stadium is located beyond Parking Lot 60 on the west end of the campus, near the Forest Products Lab and the new Medical School Hospital Complex. In his will, Nielson left one-tenth of his estate to the UW for the student loan program. The bequest amounts to \$480,000.



**McQueen**

**Blair Mac Queen**, BA '22, MS '23, died on February 25, 1980, the day before his 79th birthday. He had been troubled with a cancerous condition for two years. Following a few years of chemical work in Milwaukee, Chicago, and New York

he returned to Oconto, Wisconsin to join the family furniture and funeral business, founded in 1857. Over the years he was active in business and service organizations; he was the first president of the Oconto Development Corporation, served as chairman of the Oconto County Republican Club, and was a member of the school board for three terms. Because of his interest in education his family set up a scholarship in his honor at Oconto High School. Although he did not practice chemistry professionally for most of his life he had a broad circle of correspondents among his classmates and was a faithful supporter of *Badger Chemist* from its inception.

**Walter T. Schrenk**, MS '19, PhD '22, died at Rolla, Missouri on December 8, 1979. In 1923 he joined the faculty of the Missouri School of Mines (now UMR) and remained in Rolla the rest of his life. From 1929 until 1956 he served as chairman of the chemical engineering department which was then a part of the chemistry department. He retired in 1961. During his professional career he was a consultant to the U.S. Bureau of Mines and the Missouri Mining Experiment Station. Students considered him a great teacher and leader. In 1958, 200 former students

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# In Memoriam

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returned to the campus for a dinner in his honor. He was an enthusiastic member of Alpha Chi Sigma who organized the chapter at Rolla in 1936. AXE conferred the John R. Kuebler Award on him in 1972.



Perlman

**David Perlman**, BA '41, died of cancer on Jan. 29, 1980. He had been, since 1967, professor of pharmaceutical biochemistry in the UW School of Pharmacy and served as Dean from 1968 until 1977. In 1979 he was named Edward

Kremers Professor of Pharmacy, in honor of the second Director of the Pharmacy Course from 1892 until retirement in 1935. Dave, the son of the UW's famed labor economist, Selig Perlman, took three degrees at Wisconsin, the first in chemistry, BA '41, the higher degrees in fermentation biochemistry where he studied under Wm. H. Peterson (MS '43) and Marvin Johnson (PhD '45). He worked briefly for Hoffman LaRoche and then for 20 years as microbial biochemist with the Squibb Institute for Medical Research

before returning to Madison. He was married in 1968 to Kato Lenard who, after taking her doctorate in organic chemistry at Budapest, had worked on synthesis of compounds of pharmaceutical interest at Princeton. In recent years she has continued her research as Associate Scientist in the UW School of Pharmacy.

During his career Dave was deeply involved in the synthesis of antibiotics by microorganisms, the microbial transformation of organic compounds, and in tissue culture. He was an energetic scientist and a natural leader who maintained his active research program until shortly before his death. In recent issues of BC there was frequent reference to his activities and his many honors. He undertook his scientific work with intensity, understanding and devotion, as he did his avocations. His interests were broad-ranging, including coin and stamp collecting, bird watching, baseball statistics, bowling, history—particularly history of science and history of Madison, music—he played clarinet in the UW band for 8 years and attended concerts up to a short time before his death, and theater. He was truly a Renaissance Man.

**James R. Thayer**, MS '26, PhD '28, died of asphyxiation in a fire that swept his cottage near Lake of the Ozarks in 1971. He was a student of Professor McElvain's and continued to do research on pharmaceutical materials during his career at the St. Louis College of Pharmacy where he retired as Dean in 1964.

According to a letter from the President of St. Louis College, and passed on to the Editor by Leslie H. Andrews (BA '27, MA '28), he was "a very clever and witty teacher and was beloved by his students."



Uhl

**Arthur H. Uhl**, longtime Dean of Pharmacy died of a cardiovascular attack on December 29, 1979. He had been retired since 1970. He and Mrs. Uhl were in Tucson, AZ, where the Meloches and Helen McElvain were also part of

the Wisconsin winter contingent, when he was stricken. He is buried in Galesburg, WI where he was born 79 years ago.

He entered the UW school of pharmacy in 1919 and took the Ph.G. certificate and 3 degrees in the school, earning the PhD in 1930. From 1929 he was a member of the faculty; in 1936 he became Director of Pharmacy, and in 1950, when the School became an autonomous unit, he became Dean. During these years pharmacy and chemistry shared the old Chemistry Building and the two disciplines had a harmonious coexistence. Many chem alumni will remember him well. Under his leadership the pharmacy program became highly professionalized as he introduced innovations which placed strong emphasis on the basic sciences at both undergraduate and graduate levels, while always remembering that pharmacy is a human profession. He recognized the importance of balance between sound technical training and capacity to react passionately with human beings.

His sense of balance is reflected in his pioneering role in bringing such chemists as **Takemi Higuchi**, PhD '43, **Morris Kupchan**, Lecturer, '55-57, and **Edward Smissman**, PhD '52, into the pharmacy faculty (even though eventually losing them to other schools). At the same time he encouraged the development of a strong history of pharmacy program by providing a haven in 1940 for the illustrious German historian, George Urdang, and catalyzing the creation of the American Institute of the History of Pharmacy on the UW campus. He strongly supported its later development under Urdang's first PhD student, Glenn Sonnedecker, and now under **John Parascandola**, PhD '68.

Dean Uhl was a gentle person but this never prevented him from supporting doggedly those principles which he believed to be right. As third Director of the School, following the chemists F. B. Power and Edward Kremers, he not only maintained the high quality school they had generated, but provided sound guidance in new directions. His influence in the profession was enormous.

## This 'n' That...

(Continued from page 8)

Professor at University of Puerto Rico, Rio Piedras.

**Herbert H. Espy**, BA '52, PhD '56, is with the Hercules Research Center as a Research Scientist in the Applications Development Division.

**Dorr H. Eitzler**, BS '35, is General Manager of the Research Services Department of Chevron Research in Richmond, California.

**Charles E. Fawkes**, BS '22, has expressed his pleasure in receiving a copy of the Daniels biography.

**Richard S. Fein**, (PhD '49, Chemical Engineering), has been with Texaco's Beacon New York Research Center for 30 years. He reports having done interesting work for Joe Hirschfelder at the Naval Research Lab before taking his PhD.

**Hal Fenrick**, PhD '66, spent the summer of 1980 in Madison doing post-doctoral work under Professor Willard. They were working on the reactions of hydrogen atoms at liquid helium temperatures. Hal has been a member of the Chemistry

Department at UW-Platteville for many years.

**Ed Fitchett**, BS '24, has frequently been in touch with the Department and continues to shed light on activities in the early 20's when he was a student of Victor Lenher and went on to a career in analytical chemistry with the Anaconda Company in Montana. Ed now lives in McFarland, Wisconsin.

**Alvin J. Friske**, PhD '54, is Vice President for Research and Development with the Nalco Chemical Company in Oakbrook, Illinois.

**Albert J. Fry**, PhD '64, has been Chairman of the Chemistry Department at Wesleyan University in Middletown, Connecticut. He reports having had a pleasant visit with Dennis Evans last March in Mexico City where both were lecturing in a symposium on Modern Electrochemistry. Albert reported gleeful termination of his chairmanship in July 1980.

**Robert C. Gadwood**, PhD '78, is now a member of the Chemistry Department at Northwestern University, having moved from a similar spot at University of Pittsburgh.

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## This 'n' That...

(Continued from page 10)

**Robert H. Gillespie**, PhD '34, received the Award of Merit of the American Society for Testing and Materials in 1980. He was honored for "advancing the voluntary standardization of test methods and specs for adhesives through his long, productive and dedicated technical and administrative service." Bob is a research project leader with the Forest Products Laboratory in Madison.

**Robert E. Ginsburg**, PhD '78 with Dahl, is now a staff scientist with the Chicago based environmental group, Citizens for a Better Environment. He is also a technical consultant with OSHA.

**John L. Haack**, BS '77, reports on his activities as a "Badger in Dixie." He is in graduate school at Georgia Tech studying organic chemistry with Herbert House who was Professor Trost's mentor at M.I.T.

**James L. Hall**, PhD '39, sent his contribution from 1060 Takoma Street, Morgantown, West Virginia, but without news of recent activities.

**Lester A. Hansen**, BS '28, PhD '34, sent the editor a "Jump for Joy" contribution, but not a bit of news except that he enjoyed reading the BADGER CHEMIST.

**John R. Hayes**, BS '37, reports that he is not developing a projected newsletter at Penn State because of lack of support for doing the job in really first-class fashion.

**Louise Hellwig**, PhD '78, is at the College of Wooster in Ohio. This appointment followed completion of a postdoc at McMaster University in Ontario.

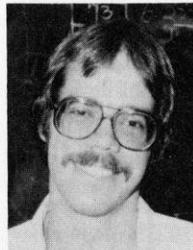
**William B. Herdle**, PhD '75, is now on the mailing list after learning about BADGER CHEMIST through indirect sources. He does not give information about his activities, but resides at 101 South Road, White Plains, New York.

**Ernest Hesse**, BA '32, writes that he spent two months in Southern California and later visited with student friends working on submarine missiles near Bremerton while looking after their 6 acre ranch. In summer 1978 he made a two-month trip to Alaska. During the eruption of Mt. St. Helens he observed the affair from a hospital window in Portland.

**Erwin N. Hiebert**, PhD '53, reports enjoying "Overview 1979" which brought him up-to-date on activities in the State, City, University and Chemistry Department. He also commented on the items about Bender and Willard.

**William (Chris) Hollinsed**, PhD '79 with Nelsen, is with Polaroid Corporation. In his spare time he studies Japanese in anticipation of a month's trip to Japan in July '80.

## SHERIDAN JOINS FACULTY



Sheridan

Robert S. Sheridan joined the faculty this summer as assistant professor in the organic division. He was born in Minneapolis, MN on January 13, 1953. His undergraduate work was done at Iowa State University where he received his BS in chemistry, with distinction, in March 1974. At Iowa State he engaged in undergraduate research with Prof. Orville L. Chapman. In the summer of 1973 he held a Summer Traineeship in the Ames Lab of the AEC where he worked with Prof. J. C. Clardy.

In the fall of 1974 Sheridan moved to UCLA where he held an NSF Predoctoral Fellowship for three years while pursuing his doctorate. Prof. Chapman, meanwhile, had moved to the faculty at UCLA and Sheridan continued doing research with him, completing his doctorate in 1979. His thesis research, while always addressed to structural problems, actually consisted of three independent parts. First, he synthesized racemic and opti-

**John Jensen Jr.**, BS '68, found the reference to the Departmental Genealogy of interest in connection with his high school teaching at Hillsboro, Wisconsin.

**Harold Jeskey**, PhD '42, reports that although retired in May '78 he has been retained part-time at Southern Methodist. They made a trip to Wilmington to visit daughter Judy and her family. Judy is married to a Du Pont chemist who had been a student at Southern Methodist U before taking a PhD at Illinois.

**Elmer Johnson**, BS '33, PhD '40, reports that Brookings, South Dakota, where Elmer has taught at South Dakota State for most of his career, celebrated its centennial in 1979. All of the Johnson boys were home to attend the high school reunion and other centennial activities.

**Richard E. Juday**, PhD '43, reports the development of a deep interest in water analyses leading to exploration of earlier methods of analysis of mineral waters. Dick is at the University of Montana.

**Robert A. Keller**, BS '51, MD '58, still finds the BADGER CHEMIST interesting even though he has been a general practitioner in Sheboygan for 18 years and now has two sons at UW-Madison. He reports, "the wise words of Professors Meloche, Schuette, Klein, and Sorum were certainly valuable to me."

cally pure enantiomers of a substituted nonyl acetate and studied its biological mimicry of the insect pheromone Z-11-tetradecenyl acetate, thereby developing a hypothesis relating to conformation and receptor geometries of the natural pheromone. Second, he used electron spin resonance and infrared spectroscopy to study the photochemical interrelation of 4-, 3-, and 2-pyridylmethylene and phenyl-nitrene in argon matrices. Third, he studied the spectroscopy and photochemistry of s-cis-1, 3-butadiene and several substituted butadienes, using conformational equilibrium trapping by high-vacuum cryogenic deposition. His work with Prof. Chapman led to seven publications.

The past year was spent in postdoctoral research under an NIH fellowship at Yale where he worked with Jerome A. Berson, who was on the UW faculty from 1963 to 1969. Bob's research dealt with the investigation of the topology of the active site of the enzyme, carbonic anhydrase, through the development and use of new spin-reactivity labels.

Bob's research interests look toward development of new synthetic approaches to novel reactive molecules, development and study of systems that mimic biological processes, and spectroscopic study of molecules of theoretical interest using matrix isolation techniques.

**Raymond J. Kepfer**, PhD '30, reports from 34584 Avenue C, Yucaipa, California, "my golf scores continue a slow rise and bowling a slow decrease and fish get a little more difficult to catch, but I enjoy life and the BADGER CHEMIST as much as ever."

**Carl Kessel**, PhD '79 with Nelsen, is on a postdoc with Dauben at Berkeley. Carl has completed a schoolboy's dream project, a workable synthesis of cantharidin (Spanish fly) and is now hot on the trail of fusidic acid.

**Andrew J. Klein**, PhD '78 with Evans, PD '78-79 with Yu, has taken a position with Monsanto in St. Louis.

**Wayne R. Kliewer**, MS '79 with Nelsen, is now located at 4250 Warrensville Center Road, North Randall, Ohio.

**Robert J. Kline**, PhD '53, has completed a five-year chairmanship of the chemistry department at Ohio U and has returned to his teaching and research. He reports having married a chemistry major and having three girls and two boys. Although the oldest boy is heading for law, two of the girls are in chemistry. Bob has served only one university since completing his doctorate. He has done some crystallography with **Don Cromer**, PhD '51, and has published work on transuranium elements, coordination chemistry, and organometallics.

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## Greek Tragedy — Act II

A year ago, *Badger Chemist* called attention to the department's Greek Tragedy in which positions taken by well intentioned actors led to irreconcilable differences which drew more and more members of the cast into the conflict. Unfortunately, in such conflicts positions become fixed and compromise, essential in the rational resolution of conflict, becomes impossible. The inflexibilities in the analytical group, which were recounted last year, remain as inflexible as ever and the problem has escalated to the university level.

Last year the case involving Prof. Walter J. Blaedel was in the hands of the university's Committee of Faculty Rights and Responsibilities after the chemistry faculty had, by a vote of 29-2, referred a formal complaint to the administration. The complaint grew out of Blaedel's unwillingness to teach chem 221 (introductory analytical) in the spring of 1979 on the grounds that the course could not be taught safely and fairly. Chancellor Shain, because of his longtime association with the chemistry department, dissociated himself from the case and assigned it to Vice-Chancellor Bryant Kearn who referred it to the above committee for hearing and recommendation.

The committee, composed of Chairman David Perlman, pharmacy; Walter Raushenbush, law; Jack Ladinsky, sociology; Francis Hole, geography; Stanley Peloquin, genetics and horticulture; David Lindberg, history of science; and Phillip Harth, English, held several days of hearings in July and several more in autumn. They heard testimony from Blaedel, chem chairman Dennis Evans, other departmental personnel, and UW safety officer Robert Radtke, and former safety officer, Earl Rupp.

Rupp testified that safety conditions in the department's labs need constant improvement, and agreed with Blaedel that too many toxic chemicals are stored in the labs. Radtke argued that Blaedel was perhaps overly concerned with safety, that he sought "absolute safety as opposed to relative safety."

In mid-January, 1980, the committee issued its unanimous report. It called the story "tragic" and recommended a formal reprimand, warning that any further refusal to teach a properly assigned course would be grounds for dismissal. The committee, in its decision, recommended it would be best if Blaedel took early retirement and suggested that the university restore the approximately \$7000 salary that was withheld in spring '79 for failure to teach the assigned course. It argued that it would be "best for all parties con-

## This 'n' That...

(Continued from page 11)

**James H. Klug**, BS '66 (PhD '70 IL) is Manager of Chemical Product Development at 3M. We are happy to have him back on the mailing list after he reported about his failure to receive No. 26, but saw the copy of his colleague, **Robert H. Stow**, BS '40. Jim reported especially enjoying the article on Professor Bender who was one of his favorites as well as his most intimidating professors during his undergraduate days. He writes, "his lectures on fugacity and Bloch functions will remain indelibly etched on my mind but, alas, not on my memory. Seriously though, he was one of two people in my UW days who gave me the encouragement and nurturing I needed in my development, a rare breed of man I shall never forget."

**William E. Koerner**, BS '45, PhD '49, is Manager of the Physical Sciences Center at Monsanto. BC No. 26 brought pleasant memories of Professors Willard and Bender, both of whom crossed his path significantly at Wisconsin. Bill reports that Badger Chemists in Monsanto's St. Louis Research Center include **Fred Meyer**, PhD '41, **Karl V. Wood**, PhD '78, **Pat Kinlen**, PhD '78, **Douglas Frisch**, PhD '72, **Quentin Thompson**, PhD '51, and **James M. Schuck**, BS '56 (PhD Bio-

cerned that the relationship between Professor Blaedel and the chemistry department not continue. The wounds and anger are too deep and Professor Blaedel's position frankly too rigid for there to be hope of reconciliation." (Blaedel refused early retirement.)

The committee also suggested that attempts by members of the department to stop him from criticizing the department represented an "unacceptable interference" with Blaedel's freedom of speech. The report referred to him as a "dynamic senior professor . . . increasingly surrounded by younger colleagues with differing views on substantive chemical issues, on undergraduate teaching methods, on graduate training, and on research." Although scholars elsewhere have worked together despite such differences, the report went on, Blaedel continued to push his demands "on colleagues who had heard them for years, finally beyond their endurance. Failing as an advocate, Blaedel became a missionary, then a zealot, . . ."

Blaedel accepted his teaching assignment of 221 in spring 1980 but issued a handout advising students that he would take no responsibility for their safety. The whole matter remains in limbo at the moment this is written (Sept. 8, 1980). The summer just passed witnessed the issuance of reams of memos and the expenditure of many hours of expensive faculty time

chem). Bill had the pleasure of having his younger daughter receive her masters degree in language development at Madison a year ago. A later letter from Bill adds the names of **Ronald Morse**, PhD '68, **Loren Bannister**, PhD '53, and **G. Arno Herzog**, BS '70.

**Sheldon J. Kopperl**, PhD '70, is back in Grand Valley State College after an interesting research period in Philadelphia where he worked at the Edgar Fahs Smith Collection in history of chemistry and also studied some biochemistry and worked at the American Physiological Society. Shelly reports that the family enjoyed being out in the East to take advantage of historical, cultural, and shopping opportunities.

**John A. Korth**, MS '40, is retired from CIBA-Geigy Corporation as of February 1 and has moved to Corea, Maine where the Korth's are "watching the birds, lobster boats, seals, great blue herons, eider ducks, etc., and admire the wild flowers. Winters on the coast are fairly mild."

**Ludwig C. Krchma**, BS '31, apparently does not enjoy writing letters since he sent no news about himself, but he certainly writes a beautiful check for the BADGER CHEMIST.

**Carl H. Krieger**, BS '33 (PhD '40 Bio-

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toward a resolution of the problem of getting two sections of 221 taught this fall. Professor Trost has had the chairmanship burden transferred to his shoulders and is open to the attacks previously directed to Professor Evans.

When classes began last week the department believed that Alan L. Soli, PhD '78, was scheduled to teach lecture section 1, Blaedel to section 2. While arguing all summer that no one had been "properly assigned" to teach either section, Blaedel volunteered during registration week to teach both sections. The offer was not accepted.

Blaedel showed up on Tuesday morning to lecture to section 1. So did Soli! Associate chairman Larsen was present and pointed out that Dr. Soli was "properly assigned" to section 1. The show was repeated at the first meeting of section 2, except that Soli was not present.

The curtain falls without a resolution of the tragedy. Obviously, act III will be forthcoming, but too late for press time.

\*\*\*\*

As was true last year, all of the above was written by Aaron Ihde, with reference to documentary material and no input from other members of the department. He accepts full responsibility for the report and believes that it is a sound factual report devoid of many confusing details.

## This 'n' That...

(Continued from page 12)

chem) enjoyed the items about Professors Bender and Willard, particularly since the Willard family lived two doors from the Krieger's on Hollister Avenue from 1946 to 1955. Carl reports their son-in-law is Associate Professor of Pharmaceutics at the U of Kansas where he is directly responsible to **Takeru Higuchi**, PhD '43.

**Seizi Kurozumi**, PD '73-74 with Professor Trost, is now a senior researcher of Teijin Bio-medical Research Institute, Tokyo, Japan. He had a very pleasant time attending a first Japanese reunion of PD fellows with Professor Trost when he visited Kyoto in December 1979 to give a special lecture at the 1st Kyoto International Conference of Organic Syntheses.

**Walter M. Kutz**, PhD '30, and his wife Dorothy, celebrated their 50th anniversary on September 4, 1979. The marriage had its beginnings in Madison in 1929. They are retired in Santa Rosa, California and Walter had plans to attend the national meeting in San Francisco this spring.

## PROMOTIONS AND RETIREMENTS

Once more the administration and regents were fully supportive of the chemistry department in approving all its recommendations for promotions. The following faculty members were promoted from associate to full professor at the June meeting of the regents: **Phillip R. Certain**, physical and TCI; **M. Thomas Record**, physical; **John L. Schrag**, analytical; **Basam Z. Shakhashiri**, general; **Frank A. Weinhold**, physical and TCI; and **John C. Wright**, analytical. They also voted emeritus status to **Aaron J. Ihde** in Chemistry, Integrated Liberal Studies and History of Science.

Other regent actions saw the promotion of **John L. Parascandola**, PhD '68, to full professor in the School of Pharmacy and Department of History of Science. Other faculty members known to many BADGER CHEMISTS who were voted emeritus status include Donald W. Kerst of Physics (inventor of the betatron); Frederick E. Mohs of Surgery (well-known for his use of chemotherapy in cancer treatment); Milton O. Pella, science education; Glen S. Pound, dean, College of Agricultural and Life Sciences; Chester H. Ruedisili, associate dean, L&S, and longtime director of the honors program; and William H. Sewell, sociology and, in 1968, chancellor of the Madison campus. Professor Sewell was given special recognition for his contributions to sociology, education, and administration when the Governor proclaimed May 30 as William H. Sewell Day.

**Douglas LaFollette**, PD '69, has returned to the midwest and is Director of State Liaison for the Mid-American Solar Energy Complex located in Minneapolis. Doug is keeping his Wisconsin contacts active and is a frequent visitor in Madison.

**Frederick W. Laird**, PhD '28, has retired from his practice in obstetrics and gynecology in Seattle, Washington and now lives at RR1 Berry Pt. Rd., Gabriola B.B. Vorixo, CANADA. Through information from **Marion Veazey**, PhD '26, he was sent some back issues of BADGER CHEMIST and reports reading them despite his long absence from chemistry. He lives on an island where he fishes for salmon and hunts upland game birds in the fall. He has run bird dogs in field trials and has won the national championship five times and came in second last fall.

**Harold O. Larson**, BS '43, sent some sweetener from University of Hawaii at Manoa, but no news about himself.

**Robert W. Laundrie**, BS '42, is an Attorney at Law in Akron, Ohio.

**Mary Lathrop**, BS '68, (MA, Ed Psych, MN '71), JD '80, has entered law practice with the firm of Isakson, Lathrop, Esch, Hart, and Clark in Madison where she will work in general law, trademark, and copyright. She taught high school chemistry in Washington, DC from 1971 until she returned to Madison in '77 to enter law school.

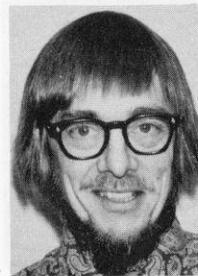
**Stephen L. Lawton**, BS '63 (MS '66 IA State U) is still with Mobil Research and Development in the Analytical Department. He originally was a full-time crystallographer but has switched to APL language computer program. He was promoted to Research Associate in spring of '79.

**Louis M. Leichter**, PD '73-74, is with Central Research Laboratories of 3M in St. Paul where he reports the following Badger Chemists: **Steven Aasen**, PhD '77 with Zimmerman, **Timothy Drahnak**, PhD '79 with West, **Frederick Gustafson**, PhD '78 with Wright, **Donald Hagen**, BS '57 with Meloche, **Rudd Meiklejohn**, MS '54 with Meloche, **William Stebbings**, PhD '72 with Taylor, **John Trend**, PhD '76 with Reich, and **Larry Wendling**, PD '75-77 with West. He and his wife Janice were expecting their third child in July.

**Arthur D. Lohr**, PhD '42, reports that he and Doris have a granddaughter who is a freshman in college. Art is retired from Hercules and continues to live in Wilmington.

**Roger H. Lueck**, MS '21, wrote his letter the day before his 83rd birthday with a fine note of encouragement for the editor, "of all the publications that come my way I feel that I derive more pleasure out of the Newsletter than any other." This comes after 57 years out of the UW Chemistry Department.

## WEST NAMED ROCHOW PROF



West

The University Regents recently named Robert West the Eugene G. Rochow Professor of Chemistry. Dr. Rochow was Bob's major professor at Harvard and is well-known for his pioneering work on organosilicon chemistry and on silicons. Rochow took a PhD at Cornell in '35 and was in the research labs of General Electric from then until '48 when he joined the faculty at Harvard.

Bob took his BA at Cornell in '50, his PhD at Harvard in '54. After two years at Lehigh he joined the UW faculty where he has been active and innovative in both teaching and research. In teaching he was responsible for an undergrad course in Revolutionary Chemistry which has stabilized into a terminal course for freshmen. In research he has pursued work in organometallic chemistry. He and his students have prepared many new and unusual compounds and studied their bonding characteristics.

Bob is an ardent mountaineer and has climbed many difficult peaks, including some never before conquered.

**Lester G. Lundsted**, PhD '42, was presented with the Edward W. Morley Award by the Cleveland Section last year for his work on the development of Block Copolymer Polyol Surfactants. Lester reports that the BC brings news of boys he has lost track of and he particularly enjoys news of the faculty and facilities.

**Elizabeth Lean Lyle**, BS '47, was in Milwaukee for a few days last fall to celebrate her mother's 80th birthday. Liz continues her work with ALCOA in Pittsburgh.

**Gustav C. Maassen**, BA '28, retired in 1971 from his Directorship of the Rubber Laboratories of R. T. Vanderbilt in Norwalk, Connecticut. From the time of his graduation he held a succession of positions with companies in the rubber industry. He was active for 30 years in the American Society for Testing and Materials, receiving the Award of Merit in 1970 and has been an Honorary Member since '74. He held volunteer assignments for the AAAS in Bogata, Columbia and Seoul, Korea.

**Howard V. Malmstadt**, BS '43, MS '48, PhD '50, received the 5th ISCO Award in Chemical Instrumentation earlier

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## This 'n' That...

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this year. The award is given jointly by Instrumentation Specialties Company and the Department of Chemistry of the University of Nebraska. Howard is professor of analytical chemistry at the University of Illinois and is author or coauthor of more than 130 research papers on chemical instrumentation and has published nine texts on related subjects. In 1976 he received the ACS Award in Analytical Chemistry.

**Raymond P. Mariella**, PD '46 with McElvain, who is executive director of the ACS, visited China in May '79 with a group of U.S. science publishers to discuss future relations with the Chinese Chemical Society and other technological organizations.

**Ralph R. Marquardt**, BS '28, left the chemical field in 1947 when he resigned from the staff of Forest Products Laboratory. He now operates a Real Estate and Bond business in Sauk City.

**Eldor A. Marten**, BS '25 (PhD '29 Biochem), was a Madison visitor in May for his 55th class reunion. He found very few returnees from his class, none in chemistry, but he still enjoyed discussing undergraduate days with those who were there. In reminiscing with the Editor about the 20's he quoted Professor Kahlenberg as follows, "Sons of great men seldom amount to anything. Now, there's my son Herman." He also reminisced about his first contact with bacteriology in the classroom of "Windy" Bill Wright who will no doubt be remembered by others of that period.

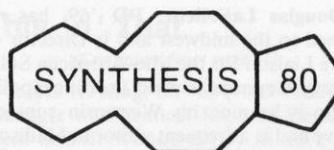
**Darwin L. Mayfield**, PhD '50, enjoys the annual updates covering the University and City since his visits to Madison have become very infrequent. Darwin is Director of Research for California State University at Long Beach where there is a student body of 30,000. He sends congratulations to Professor Sorum on participating in the National Tennis Tournament for 80 year old players.

**Bruce McBane**, MS '41, writes "Badger Chemist for 1979 is the best yet. Happy to contribute buoyancy."

**Daniel R. Miller**, BS '41 (PhD '48 Berkeley), retired from the U.S. Department of Energy after 28 years with the AEC and DOE, where, for the last 17 years he was deputy director of the basic research program in physical sciences.

**Nels Minne**, PhD '32, sent no news of his recent activities at Winona where he is President Emeritus of Winona State University.

**Therald Moeller**, PhD '38, writes that John Willard's retirement represents the last professor who was on the faculty at the time he completed his graduate work. Therald will be retiring before long and



Were you in Madison June 15-20 of 1980? If not you missed an event that will be remembered for many years as *the* scientific meeting of 1980. Blue skies, blase summertime students and clear water — all of these greeted more than 700 chemists from laboratories worldwide who journeyed to the campus early this summer to attend the Third IUPAC International Symposium on Organic Synthesis.

The Chemistry department and The International Union of Pure and Applied Chemistry sponsored the symposium, which was held in the main auditorium of the Memorial Union on the corner of Park and Langdon Streets. Twenty-eight distinguished chemists from industrial and university laboratories throughout the world presented principal lectures about recent developments in modern synthetic methods and organic chemistry. Symposium attendees were treated to a banquet of exciting chemistry by two Nobel laureates, D. H. R. Barton and H. C. Brown, and other well-known organic chemists such as S. Danzig, S. Masamune, I. Fleming, L. Paquette, R. Noyori, M. Semmelhack and R. Schlessinger. In addition eighty other chemists presented the results of the chemical research at informal poster presentations in the Grand Ballroom of the Union during two afternoon sessions.

Highlights of the symposium included a trip to the Wisconsin Dells (of course), a picnic at Picnic Point where the University food service personnel treated over 600 guests to steak, brats and beer plus a

writes that his 42nd PhD student completed his requirements in August '79. Besides teaching he continues a heavy writing program and was serving as co-editor and co-author of three volumes of the *Gmelin Handbuch*. He and his wife still retain their cabin in the Keweenaw Peninsula of Upper Michigan.

**Ambrose R. Nichols Jr.**, PhD '39, reports "enjoyed BADGER CHEMIST even though only 5 or 10% of the names are familiar."

**Mary Jo Nye**, BA '65, PhD '70 in History of Science, was in Madison in April to read a paper at the meeting of the Midwest Junto. Mary Jo is a member of the History of Science Department at University of Oklahoma.

**John R. Pailthorpe**, BS '42, MS '47, is Technical Director of Elastomers Division, Polymer Products with Du Pont in Wilmington.

wealth of other delicacies — and almost no mosquitos — and a 5 kilometer footrace in which the principal challenge was to have been a Nobel runoff between our two illustrious speakers. Discretion overcame valor, however, and these two chemists declined in favor of watching the 92 runners compete for the fastest times along the edge of Lake Mendota.

Any meeting of such a size (860 total attendees) could not have turned out so well without the enthusiasm and diligence of the organizing committee. Professors Barry Trost (Chm.), Charles Casey, Hans Reich, Edwin Vedejs and Richard Hutchinson (School of Pharmacy, Sec.) began to organize the Symposium in the summer of 1978. Nearly two years later we saw our efforts mature to become what many of our guests proclaimed as the best scientific meeting they had attended in several years. It was very gratifying to hear these comments as well as to enjoy the company of so many fine chemists during their all-too-short week in Madison. We also were pleased to have the assistance of over 100 students and research workers from the UW Chemistry department and School of Pharmacy, all of whom worked like "badgers" to help us make the meeting a success.

The Symposium was the third in what promises to become a long series of important international conferences. The fourth will be held in Tokyo in 1982 and a fifth is already being planned for somewhere in Europe in 1984. It is our pleasure to have contributed to the success of these conferences and thereby to have highlighted Madison, the University, and the chemistry department as a center of excellence for science and social affairs.

C. R. Hutchinson  
Associate Professor of Pharmacy

**Tillman H. Pearson**, PhD '51, sent his regular contribution from Baton Rouge where he is associated with Ethyl Corporation.

**Fredus N. Peters, Jr.**, PhD '25, reports receiving a letter from **Lloyd Withrow**, PhD '25, in which Lloyd mentions visiting **Marion** and **Daisy Veazey** the previous December. Pete is enjoying his retirement in Sarasota.

**Russell W. Peterson**, BS '38, PhD '42, writes that he is enjoying the exciting and rewarding position as President of the National Audubon Society and enclosed a copy of the Society's annual report. He was formerly Director of the Office of Technology Assessment of the U.S. Congress.

**Albert F. Preuss**, PhD '53, operates the Aldex Chemical Company Ltd. in Granby, Quebec. Aldex manufactures Ion Exchange Resins. He closes his letter

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# IHDE RETIRES

At the end of the spring semester in May, Professor Ihde terminated 38 years as a member of the chemistry department faculty. Actually, his contact with the department goes back an additional 15 years since he entered the UW in 1927 as a student in the Chemistry Course. He received his BS in '31 and, after a stint in the food industry, returned in '38 to undertake graduate work under the late Professor H. A. Schuette. His MS was granted in '39, his PhD in '41. After spending a year on the faculty of Butler University in Indianapolis, he returned to Wisconsin in '42 to join the freshman chemistry program. Paul Bender and Ed Larsen joined the faculty the same year.

Although tempermentally a quiet, retiring person, Ihde was nevertheless a maverick who was hard to categorize as a conforming member of the department. While he took his doctorate in food chemistry, his principal teaching contribution until 1963 was in the freshman chemistry program where he carried heavy responsibilities during the wartime and post-war years.

In 1946 he revived a history of chemistry course which had been untaught since the retirement of Professor Kahlenberg in 1940. In the years that followed, history of chemistry became Ihde's principal area of interest, and he made Wisconsin a center for the study of the subject, particularly after he was given a joint appointment with the history of science department in the fifties.

In 1948 he again deviated from chemical respectability when he was offered, and accepted, an invitation to teach the *Physical Universe* course in the newly created Integrated Liberal Studies Program. This 2-year program in the College of Letters and Science was the result of a long curriculum study in which organic chemist Homer Adkins had a part. Purpose of the program was to provide a coordinated sequence of non-traditional courses which dealt with the development of ideas in western culture. The 4-semester sequence of courses in humanities, social studies, and natural sciences was intended to provide a general education in these areas of western achievement, as well as to satisfy the college requirements of credits outside the major and the areas of math and languages. Ihde's course, the first in the four-semester science sequence, dealt with subject matter from the areas of chemistry, physics, and astronomy. Rather than attempting to survey the three sciences he developed a case history

approach in which students studied the development of a few important concepts in the physical sciences.

The evolution of his course was influenced markedly by a year spent at Harvard as a Carnegie Fellow in General Education at the time that President J. B. Conant was testing his ideas of teaching science to non-science students. Ihde was closely associated at Harvard in the teaching of Natural Science 4 with Conant, Leonard Nash, and Thomas Kuhn. That year, 1951-52, also accelerated his drift toward history of science because of association with George Sarton and I. B. Cohen who were pioneering in that program at Harvard.

Ihde dropped his work in freshman chemistry in 1963 when he was made chairman of the Department of Integrated Liberal Studies, a post he held until 1970 when he demanded relief from administrative work in order to give more time to teaching and to his research program in history of chemistry. During the next five years he developed two new courses with colleagues in history of science. In association with Victor Hilts, who specializes in history of the social sciences, he developed a course in *Science, Technology, and Society* which deals with the application of scientific knowledge and the social consequences of such innovation. With Glenn Sonnedecker and John Parascandola of the history of pharmacy program he developed *Evolution of Food and Drug Controls*, a course dealing with the interaction of industry, government, and the consumer in the food and drug field. This latter course, in a sense, was a revival of the interests aroused by Professor Schuette many years earlier.

In his scholarly field of history of chemistry Ihde published *Development of Modern Chemistry* (Harper & Row, 1964), a history of chemistry since 1750, and co-edited, with Wm. F. Kieffer, *Selected Readings in the History of Chemistry* (Chem. Educ. Publ. Co., 1965), as well as publishing numerous papers on special problems in the field. From 1962 to 1965 he was chairman of the ACS Division of History of Chemistry. In 1968 he received the Dexter Award for distinguished work in the field. A score of PhD's, and post-docs, mostly located in universities, represent a new generation of workers in the field.

Ihde's position in the faculty is not being filled in a formal sense but much of the work he initiated will be carried on by recent associates. His history of chemistry courses will be offered by Robert Siegfried, who has been, since '63, a member of the history of science department. Hilts will continue the course in *Science, Technology, and Society*, while Sonnedecker and Parascandola will continue the course in *Evolution of Food and Drug Controls*. The *Physical Universe* in the ILS program will not be continued in its present form

## PRESIDENT O'NEIL



O'Neil

Robert O'Neil was named 17th President of the University of Wisconsin System on December 14, 1979. He had been head of the Bloomington Campus of Indiana University for 4½ years before being named to the Wisconsin post and before that was vice-president for academic affairs at the University of Cincinnati. He took over from President H. Edwin Young on January 31. Young returns to his professorship of economics on the Madison faculty.

Born in New England 45 years ago, O'Neil holds three Harvard degrees. Since finishing Harvard Law School he has taught history, speech, and law before rising to a series of administrative posts in several universities. He has had extensive experience in dealing with academic problems involving affirmative action and collective bargaining and is said to have a deep grasp of academic issues.

O'Neil is married and has four children: Elizabeth, 11; Peter, 9; David, 6; and Benjamin, 3. The family lives in the Birmingham Home in the Highlands, the home now provided for university presidents.

It should be made clear that the office of the President now deals with the UW System of 27 units made up of the four former four-year campuses of the old UW, the system of the former State Universities, the Center System of two-year campuses, and University Extension. Day-to-day responsibility for the local units lies with the Chancellors and, in the case of the Centers, with the Deans. Irving Shain holds such responsibility as Chancellor of UW-Madison.

but some of the content will turn up in other new courses.

The Midwest Junto, a section of the History of Science Society recognized Aaron's contributions to that field at its annual meeting, held in Madison in April. A half-day symposium on history of chemistry was held in his honor, arranged by cochairmen Robert Siegfried, PhD '53, and John Parascandola, PhD '68, with invited papers being read by former students: James Whorton, PhD '69 (U of Washington); Stanley Becker, PhD '68 (Bethany College); Erwin Hiebert, PhD '53 (Harvard); and Nick Fisher, PhD '70 (U of Aberdeen). Aaron and Olive were further recognized at the Junto dinner that evening with a set of testimonial letters and a set of papers submitted by former students.

(Continued on page 16, col. 1)

## Ihde Retires

(Continued from page 15)

Other PhD's and postdocs who returned for the occasion were Al Baker, PhD '64, (UCLA), Al Costa, PhD '60 (Duquesne), Shelly Kopperl, PhD '70 (Grand Valley State-Mich.), Bob DeKosky, PhD '72 (Kansas), Dan Jones, PhD '69 (Illinois Med), Owen Hannaway, PD '66-67 (John Hopkins), Reese Jenkins, PhD '66 (Rutgers and Edison Inst.), Father Ernest Spittler, PD '77-78 (John Carroll U-Cleveland), Truman Schwartz, PD '79-80 (Macalester), Alan Rocke, PhD '75 (Case Western Reserve). Three PhD candidates were present: Phyllis Anderson Meyer, Chris Hamlin, and Sheldon Hochheiser, all of whom are completing dissertations this year.

Aaron Ihde was married in 1933 to Olive Tipler, a 1931 graduate of Lawrence College, who had been teaching Latin and history for two years in northern Wisconsin. Both had been classmates at Neenah High School although they became seriously involved during their college years. Olive has been active in community affairs in Madison over a long period of years. In Aaron's last year of grad work she was president of Dames, the organization of grad student wives. Later she was very active in League of Women Voters,

serving several terms on the local and state boards of the League. She was also a board member of Family Service for several terms.

The Ihdes have two children, Gretchen and John, both UW graduates. Gretchen is the wife of Hendrick Serrie, an anthropologist on the faculty at Eckerd College in St. Petersburg, FL. They live in Sarasota where Gretchen is Manager of the Florida West Coast Symphony and plays violin in the orchestra. The Serries have two sons, Karim, 15 and Keir, 11.

John, a graduate of the School of Education with concentration in natural science, has taught chemistry in Wausau, WI since graduation in 1964. He is also coach of the Wausau West basketball team. John married Janice Risley of Madison while still an undergraduate. Jan is associated with the CETA program in Wausau. The John Ihdes have two daughters, Jenny, 15 and Julie, 13.

Aaron and Olive plan to remain in Madison, at least for a few years. They enjoy their home in the Arboretum with its diversity of animal and bird life. Aaron has agreed to edit *Badger Chemist* for another year or two. He is also hard at work on the history of the UW chemistry department which he agreed to undertake several years ago.

Charles, receive his degree in Mechanical Engineering at UW-Platteville. Marie gets to Madison frequently as a member of the State Drug Quality Control Council.

**Michael D. Ryan**, PhD '73 with Evans, has been promoted to Associate Professor at Marquette University.

**Virginia Schelar**, PhD '69, sends greetings from Grossmont College in California.

**Juel P. Schroeder**, PhD '48, had a nostalgic binge with the articles on Professors Bender and Willard and the dedication of the McElvain Laboratories. Juel did his work with Professor McElvain. He is Professor of Chemistry at U of North Carolina in Greensboro but reported that he resigned effective in 1980 and planned to head back to the Middle West. New address?

**Rubin Shapiro**, PhD '53, is with American Can in Barrington, Illinois.

**Dalton Shinn**, PhD '35, has been retired from Crown Zellerbach since 1970 but continues to do some industrial consulting and has been teaching a class in amateur ratio in connection with the adult education program in the local school system in Camas, Washington.

**Charles D. Shuey**, PhD '78, is a Senior Research Chemist in the Plastics Laboratory of Dow Chemical.

**Larry R. Shultis**, BS '63, regretted the problems between Professor Blaedel and the Department since he enjoyed his course in analytical back in '61. Larry reports never becoming a professional chemist because of an unpleasant experience with the registration system kept by NSF. He is in the lawn care business which keeps him in funds for support of his microcomputer hobby.

**Ernest F. Silversmith**, PhD '55, teaches organic chemistry at Morgan State Uni-

(Continued on page 18, col. 1)

## This 'n' That...

(Continued from page 14)

"Your efforts on behalf of the Badger Chemist are appreciated from this quarter. In Vermont and Quebec "sweetness" means maple syrup. Buoyancy refers to Archimedes and Mae West. Would a simple check do? Take care!"

**Jack K. Reed**, PhD '68, of the Chemistry Department, UW-Stevens Point has just been promoted to Professor according to **C. Marvin Lang**, MS '64 (PhD Wyoming '74), also of UW-Stevens Point.

**Wilkins Reeve**, PhD '40, continues research work at University of Maryland and is actually busier than ever despite being officially retired. He says, "I wonder how I ever had time for teaching."

**Eugene C. Rickard**, PhD '72, wonders if the BADGER CHEMIST might publish a directory of alumni with known addresses. "Is there sufficient interest in such a directory to justify the effort and cost?" The Editor welcomes thoughts on this.

**Frederick W. Riley**, BS '43, sent a long letter from his home in West Germany with comments on recent Badger Chemists. With respect to the obituary of Professor Schuette, he remarks, "He was a sympathetic person with an interest in every one of his students. We learned more than chemistry from him." Fred remarks further, "Professor Bender looks

no different from the day he first stepped in the P.Chem Lab in 1942." Fred's retirement address is: Am Schoderstedter Beck 2, 3308 Koenigslutter, West Germany.

**Rex J. Robinson**, PhD '29, is Emeritus Professor of Analytical Chemistry as of 1971 from University of Washington. He continues to live in Seattle at 7324 16th Avenue NE, Seattle, Washington 98115.

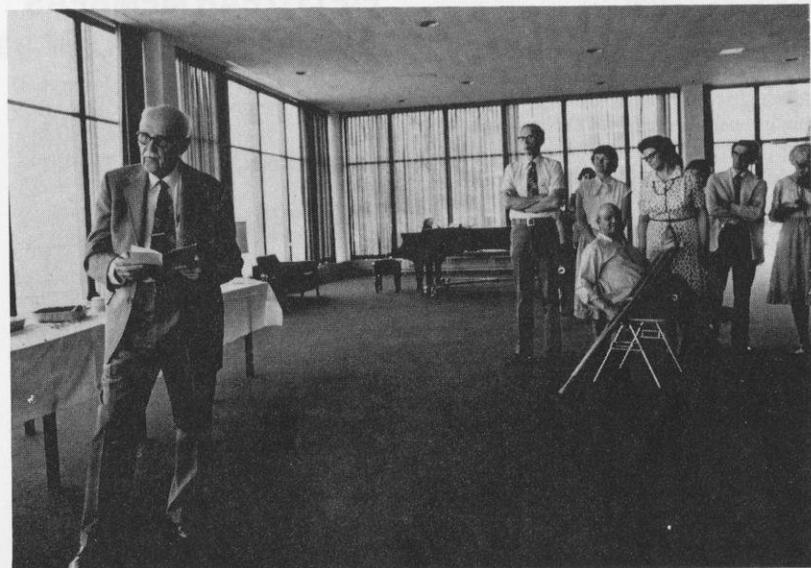
**Marie Mercury Roth**, PhD '52, was in Madison last summer for the IUPAC meeting on organic reactions. She and **Don**, PhD '44, recently saw their son,



Mrs. Farrington Daniels visiting with Aaron and Olive Ihde.

## Aaron Ihde Had a Party

On May 4 Aaron Ihde's three departments, Chemistry, Integrated Liberal Studies, and History of Science, joined in sponsoring a public reception for the Ihdes at Alumni House in the Wisconsin Center. Bob Siegfried (Chm.), John Ferry, and Herb Howe were responsible for planning which attracted many friends from the university and Madison community. Emeritus Dean Mark Ingraham, who was dean of L&S during half of Aaron's university career made some comments on the Ihdes and their contributions to the university and the community. Out-of-town visitors included Jack Villmow, prof. of geography at Northern Ill. U, who was a TA with Aaron in the early ILS days; Lucy Wilkie Lloyd of Columbus, OH who was an ILS student in the sixties and for three years a student helper in his office; the entire John Ihde family from Wausau, WI; and the entire Serrie family from Sarasota, FL. A few pictures taken by a university photographer are shown here.



Emeritus Dean Mark Ingraham comments on Ihde's career. At right, seated Odell Taliaferro (Tally), standing, l. to r., Bob and Judy Siegfried, Hazel Taliaferro, Ed and Katie Larsen.



L. to r., Joe Hirschfelder, Dennis Evans, Larry Dahl resolve momentous departmental problems.



L. to r., Gretchen and Les Holt visit with Chan Young (Assoc. Dean, L&S, and son-in-law of the late Prof. H.A. Schuette). In center background behind Prof. Holt are Margaret and Paul Bender and Lois and Chuck Curtiss.



Herbert Howe makes a point with Harvey Sorum while Evelyn Howe listens. Herb is prof. of classics and chairman of ILS. Eve is Lecturer in ILS. Prof. Sorum is retired since '70, before which he was the much loved and respected teacher of Chem 110, the course taken by most chem majors. In the center background is Victor Hiltz, chairman of the history of science department and an associate of Aaron in one of his courses.



John Willard making a point while Prof. Marion Jackson of Soils and his wife Christie listen. The Jacksons are friends of the Ihdes from grad school days. In center background are Hal and Gretchen Serrie. Gretchen is the Ihde's daughter.

## This 'n' That...

(Continued on page 16)

versity in Maryland and his wife Eva (BS '53 Math) works for a firm which sets up pension plans. Their daughter, Ann, is presently a graduate student in physics at Wisconsin and works in the same building (Chamberlin Hall, a partially rebuilt version of the old chemistry building) in which her father pushed back the frontiers of science a quarter century ago. Their daughter, Ruth, is a senior chemistry major at Carleton.

**Alvin W. Singer**, BA '32, is back on our mailing list after meeting Professor Shakhashiri when the latter was lecturing at Corvallis. Al is retired and lives at 1107 Spyglass Drive, Eugene, Oregon.

**Marvin W. Skougstad**, BS '39, PhD '49, received the 1980 Award of Merit sponsored by the American Society for Testing and Materials. He was cited for a leadership in ASTM government and international standards organizations, together with his technical expertise in standards related to water analysis. Marv is research hydrologist, Water Resources Division, U.S. Geological Survey, Denver. He had been, in 1978, the recipient of the Award of Appreciation from Committee D-19 and in 1971 received the Outstanding Service Award from the Rocky Mountain Section for Applied Spectroscopy. A native of Beloit, Marv did a bachelor's thesis at the UW under Dr. Willard and later returned for his doctorate under Professor Meloche.

**Harold H. Snyder**, BS '37, PhD '45, retired in 1979 as a vice president of Du Pont. He reports great satisfaction in having been a part of the chemical industry by being privileged to work 34 years for Du Pont. He keeps very busy in retirement, particularly at gardening since he has always been a farmer at heart. He was elected to membership in the UW Foundation last April.

**Robert H. Stow**, BS '40, writes nostalgically about Professor Schuette and his food chemistry course which led him to the Twin Cities for an interview with International Mills, though the trip led to an interview with 3M where he has worked for 39 years. **James Klug**, PhD '70, is a fellow worker with Bob.

**John M. Swanson**, PhD '40, retired in April '78, but is kept busy with volunteer work, home repair, and cultural things he didn't have time for before. He continues to reside at 1503 Veale Road, Wilmington, Delaware.

**Odell Taliaferro**, BS '33, underwent surgery for a serious back ailment last fall and has showed slow but steady improvement ever since. By late December he was

## FIFTY-YEAR MEMBERS OF THE ACS

Badger Chemists honored for a half century of membership in ACS in 1979 are:

**David Aelony**, MS '32 of Beersheva, Israel.

**Charles F. Bailey**, PhD '30, of Kalamazoo, MI.

**John B. Dorsch**, BS '31, MS '34, of Antigo, WI.

**Harry L. Fevold**, PhD '28, of Hinsdale, IL.

**Karl A. Folkers**, PhD '31, of Austin, TX.

**Philippa G. Gilchrist**, PhD '31, of Courtland, AL.

**Raymond J. Kepfer**, PhD '30, of Yucaipa, CA.

**Charles F. Koelsch**, PhD '31, of St. Paul, MN.

**Edward N. Kramer**, PhD '33, of Vero Beach, FL.

**Frederick J. Stare**, BS '31, PhD '34 (Biochem), of Wellesley, MA.

**Charles F. Winans**, PhD '33, of Akron, OH.

**Walter H. Zartman**, PhD '33, of Winter Haven, FL.

Those honored in 1980 are:

**Paul R. Austin**, BS '27 of Wilmington, DE.

**Gilbert B. Ayres**, PhD '30 of Wyckoff, NJ.

**James P. Fugassi**, BS '30, MS '31, PhD '34 of Pittsburgh, PA.

**Lester A. Hansen**, BS '28, MS '30, PhD '34 of Olympia, WA.

**Clair N. Sawyer**, BS '30, PhD '38 of Sun City, AZ.

**Conrad Raymond Waldeland**, MS '30, PhD '32 of Old Bridge, NJ.

**Arthur George Weber**, PhD '30 of Wilmington, DE.

driving the car short distances and by May he was driving long distances and walking considerable distances. He sends greetings to his many Badger Chemist friends.

**Charles C. Templeton**, PhD '48, has taken early retirement from Shell Development in Houston where he writes from 6119 Reamer Street. In February he represented the UW at the inauguration of the new president of Trinity University in San Antonio, a school which has venerable Templeton connections; founded in 1869 by his great grandfather, his grandfather serving as trustee for 40 years, and

## SALLIE PROPOSES FELLOWSHIP



Fisher

**Sallie Fisher**, BS '45, PhD '49, raised the question of the background of the Martha Gunhild Week Scholarship which she held while she was a student at Wisconsin. In fact, she wondered whether the \$25 per month she received actually

came out of Norris Hall's pocket. It did not, although Norris and other professors were known on occasion quietly to help students with their own funds.

The Week Scholarship was set up in 1923 out of the estate of Martha Gunhild Week who had been a student at the University in the 1880's. Upon her death her will created the endowment which has been used ever since to support a woman student majoring in chemistry.

Sallie has been a faithful supporter of BADGER CHEMIST and in the past year has written to inquire about interest in creating some kind of memorial for the three professors under whom she took her degrees. They were V.W. Meloche, Henry Schuette, and Norris Hall. Sallie feels they had an enormous influence on many students and have been unrecognized. She wonders if students who did work under any of these professors might be interested in creating a memorial to be administered in behalf of Analytical Chemistry at the UW. Please be in touch with Sallie at 783 Old State Road, Berwyn, PA 19312 if you are interested.

his mother taught Latin, German and Spanish there.

**Charles W. Tullock**, PhD '38, sent thanks for the wonderful personalized news reporting on Wisconsin chemists. Charles lives at Box 128, Landenberg, Pennsylvania.

**Marion Veazey**, PhD '26, inquired about addresses for Edgar McCollom and Roger Wilson and wished to be remembered to Emeritus Professors Williams and Meloche. Marion has unfortunately been in poor health during the past year, but keeps up a number of contacts with **Lloyd Withrow**, PhD '25, and **Fredus Peters** of the same class.

**Claudia K. Viehland**, MS '72 and her husband, **Larry**, PhD '73, write from Bel-Nor, Missouri. Claudia has been teaching math and chemistry at both high school and college level since taking her degree with Professor Nelsen and is cur-

(Continued on page 19, Col. 1)

## ACS Announces 1981 Awards

CEN for Aug. 25 included several chemists with Wisconsin faculty connections in its announcement of National Awards to be given at the Atlanta Meeting of the ACS next March.

**Barry M. Trost** of the organic division is named to receive the ACS Award for Creative Work in Synthetic Organic Chemistry, an award sponsored by Aldrich Chemical Co. Trost's work has been imaginative and broad-ranging — including total synthesis of biologically significant compounds and development of new methods for the study of hydrocarbons of theoretical interest.

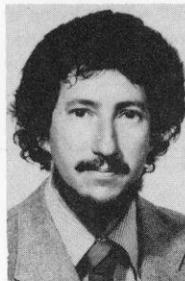
**Richard B. Bernstein**, on the UW faculty from 63-74 and now at Columbia, will receive the Peter Debye Award in physical chemistry which is sponsored by Du Pont. He is honored for his work on molecular-beam scattering as a technique for greater understanding of quantum phenomena related to long range intermolecular forces in the dissociation of small molecules. He and his associates have recently developed a new technique for lazer multiphoton ionization mass spectroscopy of isolated molecules.

**Derek Davenport**, visiting professor in the general chemistry program in 78-79, will receive the ACS Award in Chemical Education sponsored by Union Carbide. Born and educated in England, he has been a member of the chemistry department at Purdue since 1953. He is being honored for his excellence in undergraduate teaching, for his provocative contributions to *J. Chem. Educ.*, and for his wide-ranging contributions to chemical education, not only in the U.S., but in India and Nigeria. He has been chairman of the Division of Chemical Education and of the Purdue Section. He was honored with the Manufacturing Chemists Assoc. Teaching Award in 1974, and was named Lecturer of the Year by the Indiana Academy of Sciences in 1976.

rently teaching chemistry at a boy's prep school in St. Louis. Larry did his postdoc at Brown University with E. A. Mason and is now associate professor at Parks College of St. Louis University teaching general chemistry, physics, and thermo-chem. Larry and Claudia are parents of two small sons.

**Dale Wurster**, BS '74, completed his PhD in pharmaceutics at Purdue in spring '79 and is now Assistant Professor of Pharmaceutics at U of North Carolina, Chapel Hill. His wife, the former **Pamela Marvin**, took her BS in Med Tech in '73.

ACS awards announced earlier and granted at the August meeting at Las Vegas include:



Ellis

**Arthur B. Ellis** will receive the second Exxon Faculty Fellowship in Solid State Chemistry according to a recent announcement in CEN. The \$5000 unrestricted fellowship is sponsored by Exxon Research & Engineering Co. and administered by the Division of Inorganic Chemistry through its Solid State Subdivision. Art joined the department in 1977, immediately after completing his PhD at MIT where he worked on semiconductor photoelectrochemical cells in the laboratory of Prof. Wrighton. He is continuing work on luminescent cells, utilizing photochemical, electrochemical, spectroscopic, and surface science techniques in studying solid-state phenomena.

**John L. Margrave** will receive the ACS Award for Creative Work in Fluorine Chemistry. John was on the UW faculty in 1952-63, when he moved to Rice U in Houston where he is now dean of advanced studies and research. The \$1000 award is sponsored by PCR Inc., Gainesville, FL and is administered by the Division of Fluorine Chemistry. John's research has focused on chemistry under extreme conditions. He has introduced methods for use of elemental fluorine for synthesis of inorganic and organic fluorine compounds and, with Ward Hubbard, has developed fluorine bomb calorimetry as a high precision thermodynamic technique. While at Wisconsin John served as major professor of **Margaret Frisch**, PhD '62, who received the 1000th doctorate granted by the UW Chemistry Department.

**Charles F. Winans**, PhD '33, reports that publication of the Daniels biography motivates him to point out that the trauma of writing a thermodynamics exam in the Chemistry Library is responsible for his being a heavy cigarette smoker. When the exam was over either **Harold Burdick** or **Marshall Sprinkle** said, "Relax, Charlie, have a cigarette." That is how he got started.

**Lloyd Withrow**, PhD '25, inquired about the meaning of the word, "RATTOR" after Karl Paul Link's name in last issue's obituary. KP not only discovered the anti-coagulant dicoumarol in spoiled sweet

clover hay, but went on to develop use of a derivative as a slow acting rat poison commercialized under Alumni Research Foundation management under the name "Warfin." For many years KP identified himself as a "RATTOR."

**Henry J., MS '49, & Peggy Wittrock, BS '44**, reminisced that they met in Room 151 and were married on a cold day between semesters the following January. After leaving Wisconsin they went to New Jersey where Henry worked on alkaline secondary batteries for Edison, Inc. In '52 they moved to Spokane for work in the research laboratories of Kaiser Aluminum. When Kaiser opened a research facility in Pleasanton, California they moved there and continue to enjoy the beautiful hill country. They report seeing **Jerry Seim**, PhD '49 with Professor Holt, frequently. Jerry is head of the Central Analytical Department.

**Carol H. Wallace**, PhD '49, reports a move to Tulsa, Oklahoma but no news regarding reasons.

**Mark P. Warchol**, PhD '78, reports a Houston address, but without explanation of his activities.

**Arthur G. Weber**, PhD '30, retired from Du Pont and joined the Technical Service Division of U of Delaware where he has an assignment in the Office of Research and Patents.

**Gary Weisman**, PhD '76, Assistant Professor at U of New Hampshire, is heading toward the synthesis of every saturated polycycle with at least three nitrogens, and is the driving force behind organizing a conference on conformational analysis to be held at UNH in the summer of 1981.

**Donald Williams**, BS '37, reminisces that he was a classmate of Professor Larsen and an AXE brother, Jim D'Ianni. They all looked upon Mel as their patron saint. Since Don did his bachelor's thesis under Professor McElvain he was interested in the laboratories being named after him. Don spends weekends on the farm near Sparta, Wisconsin and although he has not been an active chemist he still maintains his ACS membership. He owns Chippewa Springs Corporation in Chippewa Falls, a business of selling one of the most plentiful chemicals on earth. Their spring water contains only about 40 ppm total solids. He spends most of his time in Minneapolis as President of Winzen International, builders of balloons used to carry instruments to the top of the stratosphere.

**Stephen D. Ziman**, PhD '71, has taken a year's leave of absence from Chevron as a Public Affairs Fellow in the ACS Congressional Science Fellowship program where he worked as a staff member of the U.S. House Committee on Science and Technology.

## New Badger Chemists

Between August, 1979 and June, 1980, 24 students received the Bachelors, 16 the Masters, and 32 the PhD. Listed below are the new alumni of the department. Major professors are shown for PhD's.

### Bachelors Degrees

APRHAMIAN, Steve L.  
BERGS, Erich A.  
BRIEN, David J.  
CARRIERE, Craig J.  
DOE, Charles J.  
ECKMANN, Ann D.  
FRITSCH, Michael K.  
GREENBERG, Gary M.  
HAMERS, Robert J.  
HUI, Stella Ho Kei  
KRUNNFUSZ, Kathleen D.  
KULZICK, Mary J.  
KULZICK, Matthew A.  
MARTIN, Michael B.  
MASON, Pamela J.  
MEIDENBAUER, Arlene R.  
NETTUM, James A.  
NITKA, David M.  
O'KRONGLY, David A.  
POKLAR, Mary J.  
SHARP, David A.  
STEVENS, Robert E.  
THEDERAHN, Hiroko M.  
VANSINA, Bruno J.

### Masters Degrees

BRONG, Brian D.  
BURGER, Ricki W.  
CELEBUSKI, Joseph E.  
DRAEGER, Norman A.  
FOSTER, John P.  
HONG, Chieh Chao  
JOHNSON, Jeanette L.  
JOHNSON, Ruth B.  
KLIEWER, Wayne R.  
LAMPERT, Jordan K.  
MONG, Gary M.  
PYRKA, Gloria J.  
ROARK, William H.  
RUSEK, Jay J.  
VIENS, Vicky A.  
WESENBERG, Gary E.

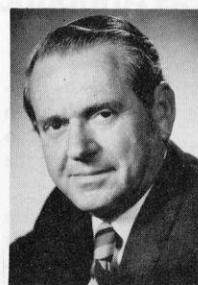
## DUKE ROBINSON RETIRES

"Duke" Robinson, longtime head of the organic chemistry stock room has retired. On April 11 his friends among students and faculty held a five-hour retirement party for him at the Stone Hearth on Park Street. "Duke" will be living in retirement at his home in Tomahawk, Wisconsin. We wish him many happy years of pleasant retirement.

### Doctoral Degrees

ARNOST, Michael J. Evans  
BROUGH, Lawrence F. West  
CESA, Mark C. Casey  
CHEN, Michael W. Dahl  
COHEN, Martin L. Reich  
COLESON, Kraig M. Gaines  
CORRIGAN, Dennis A. Evans  
DRAHNAK, Timothy J. West  
EHRHARDT, William C. Vaughan  
ENGSTROM, Royce C. Blaedel  
FELDMANN, Clifford D. Larsen  
FIRSICH, David W. Treichel  
GAITHER, Robert L. Vaughan  
HANSEN, Richard L. Curtiss  
HIRZEL, Timothy K. Zimmerman  
JAWORSKI, Robert J. O'Leary  
JUNGHEIM, Louis N. Trost  
LO, Frederick Yip Kwai Dahl  
MABBOTT, Gary A. Blaedel  
MAO, Michael Kar-Tong Trost  
MINNICK, Michael G. Schrag  
MOORE, David S. Wright  
OLSEN, Bernard A. Evans  
PASTERIS, Robert J. Zimmerman  
PEAKE, Steven L. Reich  
PIAZZA, George J. Jr. O'Leary  
SCHECK, Daniel M. Casey  
SPEAR, Kerry L. Vedejs  
SZMANDA, Charles R. Dahl  
VAN EFFEN, Richard M. Evans  
WOLLOWITZ, Susan Reich  
WRAZEL, Julie S. Larsen

## ACS PRESIDENCY



D'Ianni

James D'Ianni became, on Jan. 1, 1980, the 92nd person to hold the presidency of the American Chemical Society. (Although the ACS has existed 105 years, some of the early presidents served more than one year.) D'Ianni is a Wisconsin PhD

in '38 with Homer Adkins. From '38 he was with Goodyear Tire & Rubber, retiring at the end of '78 as assistant to the vice-president of research.

Jim was born in Akron in 1914 and took his BS at U of Akron in '34. He is also a graduate of the Advanced Management Program of the Harvard Business School ('55).

He took leave from Goodrich in '46 to serve as chief of the polymer research branch of the Office of Rubber Reserve in Washington, D.C. In 1977 Jim received the Charles Goodyear Award, the highest honor bestowed in the rubber industry, for his work on synthetic rubber. In '67 he was ranked 48 in the list of 100 top contributors to the literature of the rubber industry by *Rubber Journal*, a British publication.

D'Ianni has contributed heavily to activities of the ACS, both at the local and national level. He served as chairman of the Akron Section in '52-53; chairman of the Rubber Division in '64; as well as holding more than 20 spots on Society boards, committees, and study groups.

Jim is the fourth Badger Chemist to hold the presidency of ACS. His predecessors were: Farrington Daniels in 1953; Arthur C. Cope, PhD '32, in 1961; and Karl Folkers, PhD '31, in 1962.

Badger Chemist is made possible as a result of the financial help of friends of the Chemistry Department (see editorials, p. 2). Inflation keeps costs rising. Help to keep the editor solvent by sending ALMS, and happy by sending NEWS. Make checks payable to Wisconsin Foundation—Badger Chemist Fund and mail to:

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**Department of Chemistry**  
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