



Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 26 November 1979

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BADGER CHEMIST

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

Newsletter 26

November 1979

Two Critical Retirements

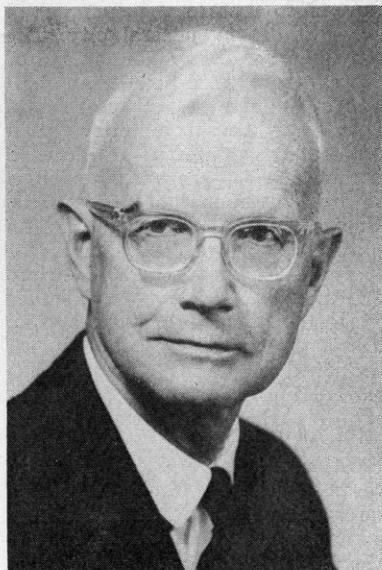
The Chemistry Department is reeling from two faculty retirements, both of them leaving a void of substantial proportions. Together, Paul Bender and John Willard represent 79 years of service to the university; Willard joined the faculty in 1937, Bender in 1942.

Both have contributed in unique ways. Willard opened up the field of radiochemistry at Wisconsin while carrying a substantial teach-

ing load in the freshman chemistry program. Bender developed the program of chemical instrumentation, which had been started by Professors Mathews and Meloche, and built it up to one of the finest in the country while contributing heavily to the physical chemistry teaching program. Both have been widely recognized, both at Wisconsin and outside for their contributions.

Paul J. Bender

Paul Bender joined the faculty in 1942, fresh from a Ph.D. at Yale. His talents for instrumentation immediately became evident and the development of the department's instrumentation program has been his particular forte. He has seen it grow from the good



but modest assemblage that Professor Meloche had brought together to the collection of expensive and sophisticated instruments now available for teaching and research in the department.

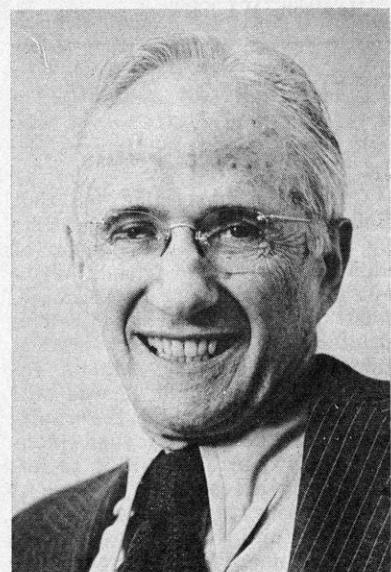
Paul Bender was born in Mansfield, Ohio, the son of Paul Vermont and Myrtle Geise Bender. Following his youth in Cleveland, where he was educated in the public school system and where he became a faithful follower of the Cleveland Indians, and later of the Cleveland Browns, he set out for New Haven to become an undergraduate at Yale. Upon completion of his B.S. in 1939 he continued at Old Eli to pursue graduate work under Gosta Akerlof. His dissertation dealt with thermodynamic properties of concentrated potassium hydroxide solutions. During his last year at Yale he was associated with an OSRD research and development project.

His coming to Wisconsin coincided with a depletion of faculty ranks associated with wartime research and development programs. As a consequence, Paul was immediately thrust into heavy responsibilities associated with the physical chemistry laboratory. He immediately became a key figure in management of the laboratory since he had a natural flair for instrumentation and was full of original ideas for improvement of the facilities and the experiments. When a new edition of *Experimental Physical Chemistry* was needed, Professors Daniels, Mathews, and Williams invited Dr. Bender to join in authorship of the fourth edition published in 1949. His contribution to subsequent editions has been substantial.

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John Ela Willard

John Willard's first contact with the University of Wisconsin occurred in 1932 when he enrolled as a graduate student in the chemistry department. He had completed his S.B. at Harvard in 1930, then taught chemistry and physics for two years at Avon Old Farms School in Avon, Connecticut. After completing his Ph.D. under Farrington Daniels in 1935 he became an instructor at Haverford College. Two years later he was brought back to Wisconsin where he was associated with Professors Walton, Krauskopf, and



Sorum in the freshman chemistry program while he started his research program. His association with the chemistry department has been continuous since 1937 except for interruptions for work in the Manhattan project during the World War II years.

Born October 31, 1908, in Oak Park, Illinois, John was the son of Wallace Watson Willard, a minister, and Mary (Ela) Willard. He attended high school in Beloit, Wisconsin. He carried out his

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BADGER CHEMIST

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THE EDITOR SPEAKS**More Help Please**

Once more we remind you that Badger Chemist is made possible by voluntary financial support of alumni, faculty, and friends. Without this it could not be produced. Last year's issue generated a printer's bill of \$1800 for production of 3000 copies. Alumni response was good but it was still necessary to draw on the chairman's discretionary fund (non-university source) for \$150 to finish paying the printer.

This issue is, as always, prepared on faith that your generosity will continue. Without your continued contributions we will have to close up the newsletter. Help keep the editor solvent!

MAILING POLICY

Since we have shifted to address preparation by the University's Alumni Records Office and mail moves third class, we have no mechanism for learning about undelivered copies attributable to change of address, etc. We have a suspicion that this number is fairly large since changes of address come to us fairly frequently and we find changes in the Alumni

Overview—1979

Numerous changes have taken place in Madison since BC #25. Politically, both state and city voters went for changes.

State of Wisconsin

At the governorship level, the voters turned out the Democrats who had controlled the statehouse since 1971 and elected Lee Dreyfus in his first try for political office. Dreyfus had been a speech professor at Madison for a period of years before becoming Chancellor at UW-Stevens Point. Although a newcomer to politics, Dreyfus proved himself an effective vote-getter and used all of the techniques of a loquacious speech professor with persuasive effect. He adopted a red vest as his personal symbol and played the role of underdog to win the Republican primary from a widely known, party-endorsed, Congressman from the Milwaukee suburban district. He continued the same role in the general election to win decisively over Acting-Governor Schreiber. Dreyfus ran a campaign attacking the treasury surplus the Democrats had accumulated, while promising improvement of Wisconsin's roads and emphasis on development of

Records print-out when labels are compared with our own file cards. For this reason, we are establishing a future *policy of removing a name from the mailing list* when we have received no communication of any sort from the departmental graduate over a *consecutive five-year period*.

Therefore, we are urging you to send in some kind of communication within the next five-year period so that we know that our mailing address for you is valid and you are interested in receiving the newsletter.

The communication need not be in the form of a financial contribution, although these are welcome! A communication should hopefully contain some information about your recent activities—change of address, change of job, news about your professional activities, honors, news about your family, travel or whatever else might be interesting to your classmates and friends.

Thank you.

A.J.I.

nuclear power. In his first nine months in office Dreyfus has been learning how to compromise with a Senate and Assembly which remained Democratic.

City of Madison

At the city level, Mayor Paul Soglin—the former student radical, chose after six years in office, not to seek a fourth term in April. His aide, James Rowan, was defeated in his bid for the office by Joel L. Skornicka, a former vice-chancellor at the university. Soglin has entered a Madison law firm. In the mayoral primary there were ten candidates, only one of whom claimed to be a conservative.

The Soglin years just ended, failed to lead to the chaos that many expected. "Hizzoner, de Mare," as the identification plate on his desk read, proved to be another politician molded by the office he held. The extreme positions he took as a student alderman were not as evident when he had to face responsibility for budgets and had to work with the City Council. On the positive side, he held Madison's excellent rating in the bond market, brought about development of a public transit system which shows signs of being a good one, developed and expanded a system of bicycle trails (Madison now has more registered bicycles than automobiles), and worked to restore the commercial viability of the central city. The conversion of the university end of State Street to a pedestrian mall was completed several years ago. Last year saw completion of a project to create a concourse around the Square with emphasis on the convenience of pedestrians. Madison is also completing an Auditorium, a project sought for 75 years. However, the Auditorium will not be the Monona Terrace Project envisioned 25 years ago by Frank Lloyd Wright, but a refurbished Capital Theater expanded into the former Montgomery Ward store immediately adjacent.

On the negative side, the Soglin years have seen Madison become referred to as "Sin City." Marijuana is smoked openly, hard drugs are easily available and have created problems in the public schools, and the city is infested with massage parlors, escort services, x-rated bookstores, and nightclubs with nude dancing. Although only two murders occurred in Madison

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This 'n' That About Our Alumni

This section follows the standard format created by Dr. Schuette 25 numbers ago. Order will be generally alphabetical but occasionally there will be a departure for association items. Starting with this issue postdoctoral fellows will usually be listed as PD, with dates at the UW. The term PD will ordinarily also be assigned to honorary fellows and other visitors such as visiting faculty and project associates. Visitors involved in the teaching program will be designated visiting faculty (VF).

This section of the newsletter continues to be dependent on news submitted by you about your activities and those of your Badger Chemist friends. Ed.

Richard R. Adachi, BS '47, reports a change of address to P.O. Box 146, Moffett, CA but without news.

Robert A. Alberty, PhD '47, who is Dean of Faculty at MIT is serving as Chairman of the ACS Committee on Chemistry and Public Affairs. He has recently expressed an interest in obtaining a copy of the first edition (1913) of Getman's: *Outlines of Theoretical Chemistry*, the granddaddy of the Getman and Daniels series which is now being continued as Alberty and Daniels, *Physical Chemistry*. The fifth edition under Bob's authorship was published this year. Anyone having a copy of the 1913 edition which they are no longer using should report their desire to sell the book directly to Bob at the School of Science, MIT, Cambridge, MA 02139.

Sajjad Ali, BS '79, is with Lec-tec Corp in Eden Prairie, MN where he is doing work on plastics suitable for electrodes used in medical equipment. He reports that his parents are no longer in Iran but have settled in London.

Leslie H. Andrews, BA '27, MA '28, (PhD Pitt) sent a long letter describing life in the department when he was a student. He was a senior TA for Prof. Richard Fischer in the organic course and became his lecture assistant the next year. An inquiry about his good friend, **James R. Thayer**, PhD '28, reveals that Thayer's name was removed from the mailing list in 1974, probably because BC was returned for non-delivery. Thayer taught organic at the St.

Louis College of Pharmacy from 1930 and was associate dean from 1950 until he retired in 1965.

Rolland A. Aubey, BS, 49, who is with Nekoosa Papers, sent greetings to Professors Sorum and Meloche. He reported that **John Paracandola**, PhD '68, of the School of Pharmacy gave an excellent talk to their technical personnel earlier in 1978.

Paul R. Austin, BS, '27, reports a second career as Adjunct Professor of Marine Studies at U of Delaware since retiring from du Pont a dozen years ago. He is investigating chitin from waste crab and shrimp shells.

Roy H. Baechler, BS '21, PhD '27, reports a change of address from Madison to 13087-99th Dr., Sun City, AZ.

Norbert S. Baer, MS '62, is co-chairman of the Conservation Center of the Institute of Fine Arts, New York U.

Jean Nau Baernstein, BS '47, was sorry to learn of Dr. Schuette's death. Enjoyed the issue on the shop crew which aroused "fond memories of Mr. Helmke." Jean and her pediatrician husband live in Upland, CA.

Charles F. Bailey, PhD '30, and his wife (Mary Carney, BS '30) of Kalamazoo, MI report a visit from **Walter Kutz**, PhD '30, and wife Dorothy of Santa Rosa, CA. Charles is now retired for 8 years from the Upjohn Co.

George C. Bailey, BA '09, (PhD Yale '16) of Elizabeth, NJ recalled Dr. Schuette as the last faculty member in his memory and commented on the death of **Kenneth Hoover**, BA '21. George and Hoover worked together at Allied Chemical in Buffalo. Hoover later joined Reynolds Tobacco where he rose to director of research and vice-president. George says he was probably the best paid BA in chemistry in his day.

Merton D. Baird, PhD '69, is associate professor of chemistry at Shippensburg State College in Pennsylvania. He recently sent the editor a map of the UW campus which had long been stashed in the janitor's room in the old building and was given to Merton in '62. The map is an interesting relic printed in '48 and showing many of the green spaces on campus which no longer exist. It also

shows the quonset huts and other temporary buildings which were constructed on the lower campus and elsewhere to take care of the GI enrollment of that day. Also shown are the trailer residences on camp Randall.

A. A. Baker, PhD '64, (joint with history of science) is now librarian at Central Illinois U. He had formerly been at California State College-Fullerton.

C. Loren Baldwin, MA '40, and wife Claudia visited Madison last summer, the first time Loren had been back since 1952. He had many fond memories of Prof. Schuette and made a visit to the site of the old food lab which has now been converted to small labs by the Pharmacy School. Baldy recently retired from Sunkist where he was involved in pollution control chemistry.

Kenneth Barnett, PhD '67, has left the University of Missouri-St. Louis to join Ashland Oil Company in Columbus, OH.

Karl E. Baumann, mechanician in the thirties, wrote in to express his appreciation for the copy of BC 24 with news of many chemists of his day. He updated his activities beyond those reported in the last issue by Dalton Shinn, PhD '35, last year. Karl was instrument maker for Coleman Instruments after leaving the UW in '41. After five years he was hired by **Maurice Nessel**, PhD '35, of Baxter Laboratories as development engineer. After 27 years there he retired in 1973 and lives in Lake Mills, WI.

Benny Beck, PhD '57, has moved to a new rural home at 20611 Apache Trail, Crosby, TX. Benny is busy developing the laboratory organization of a new Exxon Chemical plant nearby.

Steven H. Bertz, BS '73, has completed his dissertation at Harvard with Professor R. B. Woodward and is presently with Bell Laboratories.

Robert Bird, PhD '50, writes "Keep up the good work!" Bob is doing splendid work in the chem engineering department at the UW.

Galo W. Blanco, PhD '22, is now retired from management consulting and is on the faculty of Cleveland's Dyke College as its first "executive in residence."

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Overview—1979 . . .

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last year, rape has become a serious problem. Memorial Library recently instituted a heavy surveillance program when the stacks were becoming a combat zone.

Despite these negative aspects and a population of 170,000 Madison continues to retain a great deal of its charm—no doubt the large number of insurance and real estate salesmen is reflective of an attraction for onetime students who couldn't bear to leave! The city has consistently rated high on surveys of "most livable" American cities. It continues to be a white-collar city with 50,000 government employees (federal, state, county, and city) and 40,000 university students.

The blue-collar base remains small with Oscar Mayer being the largest industrial employer (but threatening to close its Madison plant because of labor problems and a decline in pork production in Wisconsin). Gisholt Machine no longer exists but Ray-O-Vac is active. The community is now attracting scientifically based research and development companies.

The work force in Madison is considered "overqualified." Unemployment is lower than the national average but city officials are worried about growing numbers of young single persons on welfare.

University of Wisconsin-Madison

Student activism has quieted down since the tragic bombing of Sterling Hall in 1970 but protest marches are still a commonplace occurrence. However, they lack the ugliness which characterized the protests of the sixties. Many of the student radicals of the sixties have settled down to the energetic practice of law, insurance, construction, and retail business, some in Madison, most of them elsewhere. Student government has taken on a posture of strained playfulness with the Pail and Shovel Party currently in power. Last spring they spent \$8000 of student funds to create a papier mache and plastic effigy of the Statue of Liberty on the ice of Lake Mendota at the foot of Park Street, the statue appearing submerged except for face and crown, and the torch. The effigy was set afire by vandals a few nights later.

Enrollment reached a record 40,200 in Madison this fall while

enrollment fell in a number of the outlying units of the university. Tuition is up to a hefty \$877 for Madison undergrads who are Wisconsin residents, \$3176 for non-residents. Grad students pay \$1237 and \$3871 respectively. Of course, most grad students have some kind of appointment so pay fees at the resident level. Separate lab fees have not been assessed for about 20 years.

New construction on the campus has nearly ground to a halt with completion of the new medical school complex beyond the Forest Products Lab. The University Hospital near the old chemistry building was vacated one weekend last March when patients, nurses, doctors, and other personnel were moved into the new facilities which were constructed at a cost of over one hundred million dollars.

Prexy

Once again, the university is searching for a president. H. Edwin Young, who moved from Chancellor at Madison to president in 1977, has announced his retirement from the presidency, effective in January 1980. A Search and Screen Committee of UW System faculty members and Regents is presently paring a list of 205 potential candidates down to a handful of selected names for interview and serious evaluation by the Regents. To date, there has been no meaningful leakage of names of a potential selectee.

Rankings

Once more, the Madison unit of the UW received high faculty ranking among the nation's leading educational institutions. In a survey of more than 4000 professors in 4-year colleges, Madison departments won national ranking in 12 of 19 academic fields. The survey was conducted by E. C. Ladd, Jr. and Seymour Lipset, prominent educational investigators, in 1977 and reported in the *Chronicle of Higher Education* for Jan. 15, 1979.

UW-Madison ranked second in agriculture, third in biological sciences, fourth in foreign languages and sociology, fifth in education and history, sixth in chemistry, seventh in math-statistics, eighth in engineering and political science, ninth in economics, and tenth in psychology.

Top five ratings were received by 15 departments at Harvard, 13 at California-Berkeley, 11 at Stan-

ford, 9 at Yale, 7 at Michigan, 6 at UW-Madison. Other Big Ten universities with departments in the top 5 were Illinois with 3, Indiana with 2, and several with one each.

In ratings of chemistry faculties, Harvard was clearly ranked best with 79% of respondents ranking it in the top five and 43% ranking it first. California-Berkeley was next with 65% and 9% respectively. Stanford was ranked in the top five by 53%, Catech by 50%, and MIT by 45%. Sixth place Wisconsin was ranked there by 26%. The seventh to tenth rankings went to Illinois and Columbia with 18% each, and Cornell and Chicago with 15% each.

Chemistry Department

The chemistry department has had two retirements, two promotions to full professor, one promotion to tenure, and one faculty addition. During the past academic year 23 students were granted bachelors degrees, 7 of them women; there were 13 masters (1 woman) and 49 Ph.D.s (3 women).

The faculty is now made up of: 30 full professors; 7 associate profs.; 3 assistant profs.; two visiting profs. (A. Truman Schwartz of Macalester College, St. Paul, and Kenneth W. Watkins of Colorado State); one lecturer (Barbara J. Whitlock); 4 lab directors, and one project associate.

Dennis Evans is departmental chairman, Edwin M. Larsen is associate chairman, Bette Germann is departmental secretary, and Harold Schimming is manager of the business office.

This 'n' That . . .

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James R. Blinn, MS '79 with Zimmerman, is now with Upjohn in Kalamazoo, MI.

Carl Braun, BS '74, is Ensign aboard the USS James Monroe.

A. Keith Brewer, PhD '24, was featured in a recent *State Journal* article dealing with his funding of the Richland Center Library and his promotion of science through the library's activities. Brewer was Prof. Daniels' first doctoral candidate. He was associated with several federal agencies before becoming chief scientist for the Office of the Chief of Naval Operations. He is now retired but is

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Bender . . .

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In 1943 Paul married Margaret McLean, a Mount Holyoke graduate who completed an organic chemistry Ph.D. at Yale under Werner Bergmann. At that point Alpha Chi Sigma lost the second of its resident bachelor instructors. (Ed Larsen left in '43 to undertake war work in Dayton and returned with his Kate.) Margaret Bender added another dimension to the university's activities. A talented scientist, she soon became associated with Professor Williams' wartime program involving studies on blood plasma proteins. After that program ended she taught chemistry in the UW Extension Program. Later she received an appointment as Senior Scientist in the Environmental Studies Center for Climatic Research where she is responsible for the carbon-14 dating program.

Paul's early research program continued his Yale studies on thermodynamic properties of solutions. Soon after coming to Wisconsin he encountered a long unused apparatus for study of Raman spectra. In characteristic fashion, he set out to make the apparatus operative—more than that, through typical Bender innovations to make the technique reliable and readily operative, and for some time he and some of his students pursued research on Raman spectra.

Somewhat later, when the implications of Nuclear Magnetic Resonance for chemical research were becoming evident, Paul took the leadership in bringing equipment for such studies into the department. He was also a leading figure in developing facilities for measurements of mass spectra, and for computerizing instrumental methods. In fact, Paul's penchant for the development of instrumental operations in chemistry had the effect of changing his career. His own program of research, which resulted in a steady flow of Ph.D.'s from the late forties through the mid sixties, was more and more diverted by the demands of the department's instrumentation program until he was obliged to place his major focus on management of the instrumentation program. He gave faithfully to demands on his time for not only keeping in-

struments operative but to anticipation of needs for more sophisticated equipment, the preparation of grant proposals for acquiring such devices and building a back-up team of specialists to service the instruments, and the training of students and faculty in their use.

As recognition of the modern role of instrumentation in chemistry a research news article over the name of Thomas H. Maugh II in *Science*, March 30, 1979, p. 1327 reads:

"A final trend involves the instruments themselves. The increased simplicity of operation of instruments has frequently been accompanied by an increased difficulty of repair and maintenance. Many scientists within a department, furthermore, are frequently not aware of the capabilities of new instrumentation. Some universities, therefore, are hiring new faculty members to be in charge of all instrumentation and to assist their fellow scientists in using them to their fullest capacities; these specialists are often in charge of shops, also. The new faculty members are often accompanied by highly trained technical personnel responsible for maintenance and repair of the instruments; in many cases, these technicians receive higher salaries than full faculty members. Total budgets for operation of instruments

for one department may approach \$1 million per year. A few examples of such faculty members and schools where the program is working include John Amy of Purdue University, Charles Wilkins of the University of Nebraska, Frank Anet of the University of California at Los Angeles, and Paul Bender at the University of Wisconsin."

In 1952, when Farrington Daniels became chairman of the department, he created a Shop Committee with Paul Bender as chairman. The committee served as a coordinating group which integrated the various departmental back-up groups and the program of instrumentation. Paul served as leader of the committee until 1977 when, at his own request, he was permitted to step aside.

In taking early retirement, Paul leaves a void of substantial proportions in the department. However, in his nearly 40 years on the faculty he has built solid foundations during a period of spectacular change in the manner in which chemical problems are investigated. All of us in the department are grateful to him for his many contributions and wish Paul and Margaret many pleasant years free from the crises of instruments which malfunction in the hands of investigators who fail to understand the instrument but nevertheless expect instant results.

This 'n' That . . .

(Continued from page 4)

funding cancer research projects at UW-Platteville and American U in Washington. Richland Center was his birthplace. Mrs. Daniels painted the murals which are on the walls of the library.

Stephen W. Brewer, Jr., PhD '69, was the recipient of a Distinguished Faculty Award at Eastern Michigan U in October 1978. Steve, a student of Prof. John Walters, has been at Ypsilanti since '69 except for '76-77 when he came back to Madison to teach one of the analytical courses.

Frederick L. Browne, PhD '20, sent the usual "sugar" for the BC cause, but no news. He is retired in Madison from his long and distinguished career at the Forest Products Lab.

Clifford Burg, BS '37, and his wife Laura (she was a departmental secretary in the thirties) report fond memories of Prof.

Schuette and many others they read about. They hope the history of the Chem. Dept. is proceeding well. (Not as well as it should—much remains to be written. Ed.)

Howard Burkett, PhD '42, is back at his spot a De Pauw U after a sabbatical spent in Bethesda on research with the Institute of Arthritis and Metabolic Diseases in the NIH.

Terry Burkhardt, PhD '74 with Casey, is at Exxon, Linden, NJ.

John Buschek, PhD '73, has completed his extended postdoctoral work with Professor Dewar at Texas and is now with the Polymer Division of du Pont in Wilmington.

George B. Caffisch, PhD '79, with Yu, is now with Tennessee Eastman in Kingsport.

Albert S. Carter, PhD '27, remarks from Fort Lauderdale "It would be a disappointment if an issue did not put in its appearance

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NEWS ABOUT OUR FACULTY

F. Fleming Crim gave a paper on collisional relaxation in highly vibrationally excited molecules at VIth International Conference on Molecular Energy Transfer, Comtal, France this past summer.

Dennis H. Evans has become a member of the National Science Foundation Advisory Committee.

John D. Ferry gave an invited lecture at a conference of the European Physical Society sponsored by the Polish Academy of Sciences. The meeting was held in Jablonna, Poland last April. Professor Ferry also gave an invited lecture at University of Copenhagen on the same trip.

M. L. Holt golfed in Scotland in September 1978 and skied at Lake Tahoe last January.

Aaron Ihde was recognized at the Washington ACS meeting when the History of Chemistry Division dedicated its Wednesday sessions in his honor. Three of his Ph.D.'s, **Erwin Hiebert**, '53, now at Harvard, **John Parascandola**, '68, now at Wisconsin, and **Charles Trottman**, '72, now at Jackson State (MS), were in attendance as were three postdocs, **Owen Hannaway** at Johns Hopkins, **O. Bertrand Ramsay** at Eastern Michigan, and **A. Truman Schwartz** at MacAllister College in St. Paul. Among others who attended were Dr. and Mrs. Sidney Edelstein. Dr. Edelstein is President of the Dexter Chemical Corporation which sponsors the History Division's Dexter Award which Ihde received in 1968. The 1979 Award went to Joseph Needham of Cambridge U for his multivolume *Science and Civilization in China* and earlier work on history of biochemistry.

Hans J. Reich spent the fall semester 1978 at Phillipps University in Marburg, Germany where he taught a course on reactive intermediates. While there he traveled by car to Varna, Bulgaria on the Black Sea to attend the IUPAC Symposium on Natural Products. He also lectured at a number of European universities. Last April the United Airlines strike prevented his presentation of a talk at a symposium honoring Professor J. D. Roberts when the latter received the James Flack Norris Award at the Chemical Congress in Hawaii.

John Schrag has been involved in invited lectures at the Tech-

nische Hochschule in Zürich and the French Workshop in Polymer Physics at Les Houches, France and was scheduled for an IUPAC meeting on polymer theory in Madison August 20-24. Other lectures were given at American Can Company, Neenah and the Analytical Seminar at U of Illinois. As a consultant for General Tire and Exxon he has been involved in work aimed at understanding the role of polymer additives used in motor oils.

Bassam Z. Shakhashiri was one of six recipients of the Manufacturing Chemists Catalyst Awards for 1979. The \$1000 awards honor outstanding teachers of chemistry and chemical engineering each year. Bassam was also the organizer of two symposia on the program of the 1979 Great Lakes Regional Meeting of the ACS at Rockford last June. One dealt with Lab Instruction in Chemistry and included **Richard Ramette** of Carleton College as a speaker. Dr. Ramette has several times been a visiting professor in our department. The other symposium dealt with the application of Paiget methods in chemistry courses. Other UW professors who presented papers at the meeting were Arthur B. Ellis, Richard Fenske, and Ed Vedejs.

C. Harvey Sorum, PhD '27, celebrated his 80th birthday last summer; daughter Jean and son Paul were in Madison for the occasion. In September Harvey went to Charlottesville, VA to participate in the National Tennis Tournament for players who are "80 and over."

Paul Treichel served as Chairman of the Gordon Conference on Organometallic Chemistry in 1978 and is currently Chairman-elect of the Organometallic Subdivision of the Inorganic Division, ACS.

John P. Walters was the recipient of the 1979 Chemical Instrumentation Award presented by the Analytical Division of the ACS. This Award, sponsored by Instrumentation Specialties Co., includes a plaque and \$2000 check. It was presented at the Hawaii meeting. John's research fields include optical and atomic spectroscopy; high-speed time-resolved spectroscopy; mechanisms of electrical discharges; development of spectroscopic instrumentation; and analytical emission spectroscopy. John has also become a member of the

Advisory Board of *Analytical Chemistry*.

Dorothy Dana Walton, widow of the late Professor James H. Walton, celebrated her 86th birthday in November 1978. She lives in Manhattan with her daughter Marsha. Daughter Judy, who is a psychiatrist in Madison, was in New York for the celebration.

Robert West returned last June from two months in Israel where he served as Lady Davis Visiting Professor at Hebrew University in Jerusalem. He gave a course on nonbenzenoid aromatic compounds at the University and a series of lectures on nuclear power for the Department of Science Education. He lectured at all other main centers of chemical research in Israel and his travels to various parts of the country included snorkel-swimming among spectacular fish and corals of the Red Sea. Naturally, he climbed Mt. Sinai! In January '79 he sent out volume 7 of *The Journal of the O.M.P.S.N.-A.S.Q.C.W.N.* to alumni of his research group. The *Journal* updates his activities and those of his 43 Ph.D.'s and other students.

John Wright recently chaired a session at the Conference on DYNAMICAL PROCESSES IN THE EXCITED STATES OF IONS AND MOLECULES IN SOLIDS which was held in Madison. During the past year he has also participated in symposia or given lectures at Wayne State, Purdue, and the Great Lakes Regional ACS meeting in Rockford, Illinois. All of his presentations have dealt with use of lasers in analytical chemistry.

Hyuk Yu was a participant in Asian/Pacific American Heritage Week at the National Bureau of Standards in May where he delivered a lecture on "Application of Light Scattering to Polymers, Liquid Crystals, and Biological Systems." Other participants included Samuel C. C. Ting, Nobel Physics Laureate in 1976 and Leo Esaki, Nobel Physics Laureate in '73. In recent months Dr. Yu has welcomed to his laboratory Dr. Eve Marchal of the Research Center on Macromolecules in Strasbourg, France, Dr. Hideo Takezoe of Japan and Dr. Michel Delsanti of France.

Howard E. Zimmerman was Plenary Lecturer in the Photochemistry Symposium held at Rocky Mountain Regional ACS

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Willard . . .

(Continued from page 1)

Wanderjahre during his college years: freshman at Pomona College in California, sophomore at Carleton College in Minnesota, junior and senior at Harvard. In 1937 he married Adelaide Ela. The Willards have four children: Ann, Mark, David, and Robert. Ann, a graduate of the UW is now Mrs. Kirk Bozdogan and lives in Massachusetts where she teaches elementary school and her husband is a regional planner with Arthur D. Little.

Mark, an Oberlin graduate, took a Wisconsin Ph.D. in molecular biology under Hatch Eccles and is now Assistant Professor of Biochemistry and Anatomy in the Medical School at Washington U in St. Louis. His work is in neuro-biochemistry.

David, a Carleton graduate, completed a Ph.D. in biology at Princeton and is now with the Field Museum of Natural History in Chicago. Dave is an ornithologist working on animal behavior. His thesis dealt with the "Feeding Habits of Herons." His studies ranged from the salt marshes of New Jersey to the jungles of Peru.

Robert is an orchardist who is associated with a cousin, Edwin Ela, in operating the Ela Orchards near Burlington, Wis. During the apple harvest season Bob is a regular merchant at Farmer's Market on Capitol Square in Madison.

In 1942, following Pearl Harbor, John became group leader associated with the Metallurgical Laboratory at the U of Chicago. He carried out chemical studies on the elements associated with the atomic energy project until 1944 when he became area supervisor of the Hanford Engineer Works operated by du Pont at Hanford, Washington. After the war ended he returned to the Met Lab as Division Director. He returned to Madison at the beginning of the academic year in fall 1946. His unclassified work at the Met Lab is described by Glenn Seaborg in the latter's History of the Metallurgical Laboratory.

On returning to Wisconsin John plunged into the task of re-establishing his research program in radiochemistry and developed a course in the subject. His research has dealt with various aspects of

radiation chemistry, particularly chemical effects of nuclear transformations (hot-atom chemistry), photochemistry, flash photolysis, and mechanisms of Friedel-Crafts reactions. His work has resulted in the publication of nearly 200 papers and supervision of more than 60 students who took the Ph.D., as well as numerous others taking the masters degree or doing a senior thesis problem. In the sixties and seventies his laboratory has attracted more than a score of postdoctoral fellows and other advanced investigators.

John has also contributed heavily to activities of the department and the university. Over the years he has not only taught his course in radiochemistry but has regularly, except when diverted by administrative duties, taken his turn at teaching one of the large freshman courses. In 1958, when the late Conrad Elvehjem became president of the university, John was selected to succeed Elvehjem as Dean of the Graduate School. He served as dean for five years while continuing his own research program. In his letter submitting his resignation to President Harrington he wrote:

"This has been a hard decision to make. The Graduate School of the University of Wisconsin is one of the best in the world. Dedicated effort on the part of many individuals through many decades has been required to achieve and maintain this position. The challenges of the future to improve quality with growth, are great and exciting.

"My five years as dean, during the administration of President Elvehjem and the first year of your administration have been most gratifying in the opportunity to work with you and other members of the administration and with faculty members in all colleges, in maintaining and increasing the strength of our graduate teaching and research programs.

"My reason for asking to be relieved of the deanship is a desire to devote full time to scientific work again."

At the time that this resignation was accepted, the Regents voted him a Vilas Professorship, the first such professorship in the natural sciences. Vilas professorships are lifetime professorships which leave the holder "free to pursue his fixed lines of research in his own way" and provide supporting funds for assistantships

This 'n' That . . .

(Continued from page 5)

each fall." We regret that we missed mentioning his 50-year membership in ACS in 1971.

R. Vincent Cash, PD '73-74, writes that their eldest daughter is now an English instructor in Hong Kong Baptist College, their youngest daughter is an evaluator in a rehabilitation workshop in Dunn, NC, and their son graduated with high honors from Central Connecticut College where Vince heads the chemistry department and teaches organic.

John Castle, PhD '44, retired

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and supplies.

Only seven years later John was thrust into an administrative role again following the resignation of Irving Shain from the Chemistry Department chairmanship to become Vice-Chancellor of the Madison unit of the university. In response to the wishes of the departmental faculty, Dr. Willard took over the chairmanship of the chemistry department and managed it in his sound and thoughtful manner for two years before persuading his faculty that his preference was to spend more time in the laboratory.

John has also been active in his profession outside the university level. In the American Chemical Society he served as Chairman of the Wisconsin Section in 1952, and Chairman of the Division of Physical and Inorganic Chemistry in 1957. In 1959 he was honored with the ACS Award for Nuclear Applications in Chemistry, the award established in 1953 by Nuclear-Chicago Corp., a subsidiary of G. D. Searle & Co.

In the area of nuclear chemistry John has served on a large number of committees and boards and has participated in numerous meetings and conferences, both in America and abroad. At the moment this is being written, the Willards are in Athens where John is participating in a conference on radiochemistry. After the conference they plan on a cruise among the Aegean Islands.

A 70-th birthday party was held for John at Great Hall in the Union in late October, 1978 with many of John's former students in attendance. The party is covered elsewhere in this issue.

Faculty . . .

(Continued from page 6)

meeting in June '78. In November '78 he was a participant at the University of Utah in their Distinguished Speakers Series. During the past eighteen months he has also given numerous lectures including colloquia at Michigan, Illinois, Pittsburgh, Nebraska, Tennessee and Columbia and served as Co-Chairman of the Organic Division, InterAmerican Photochemistry Society. He organized a Photochemistry Symposium for the Honolulu ACS meeting and serves on the Executive Committee of the InterAmerican Photochemistry Society.

Faculty members who are missed above failed to supply the editor with news of their activities following his request or are mentioned elsewhere in this newsletter. There was simply not enough time to check departmental records as has been done some years. Sorry if we've missed someone you wanted to hear about. Hopefully, next year. Ed.

This 'n' That . . .

(Continued from page 7)

from du Pont in 1977 and now helps part time at the College of Marine Studies at U of Delaware.

Peter Chiang, PhD '62, and Westinghouse were the source of matching gifts to the chemistry department last spring.

William C. Child, Jr., PhD '55, is spending the present year at Oak Ridge on a sabbatical after 22 years at Carleton College in Northfield, MN. He serves as a faculty adviser for the Oak Ridge Science Semester sponsored by two consortia of colleges during the fall semester; in winter and spring he plans to do research on the thermodynamics and transport properties of high temperature fuel cells.

Edward Clennan, PhD '77 with Nelsen, has finished his postdoc with Professor Bartlett in Fort Worth and has started an assistant professorship at University of Wyoming this fall.

Martin L. Cohen, PhD '79 with Reich, has a position at American Cyanamid Co.

Judy Coleman, PhD '66, reports that BC 25 arrived at an opportune moment while she was re-

Professor Nelsen in Germany

A request to faculty members regarding their activities raised a letter from Stephen Nelsen in Berlin. "This summer I am spending three months at the Hahn-Meitner-Institut, visiting in the group of Klaus-Otto Asmus, and trying to learn something about pulse radiolysis. I have been giving an embarrassing number of lectures, having spoken at Bristol (GB), Würzburg, Karlsruhe, the Max-Planck-Institut at Mülheim, Basel (Swi), Freiburg, Munich, Heidelberg, and Darmstadt already, and will probably speak at Berlin (Tech. Hochsch.), Bonn, Marburg, and Mülheim again. I have had some lovely side-trips in the process of doing this. I went from Basel past and across the Vierwaldstättersee on a ferry boat, over Gottard Pass by car (where it was snowing heavily on June 16th) into Ticino Canton where I stayed with Haselbach (who lectured at Madison in 1977) near Bellinzona, in a cottage high over the Ticino River valley where it flows into Lago Maggiore. I also walked in the Black Forest near Freiburg, and the Bavarian Alps south of Munich with Gerot Buche (who spent the Spring 78/79 semester in Madison), saw the Castle and Prince-Bishop's Residence at Würzburg with Helmut Quast (another visiting Professor at Madison), and the sights of the Neckar Valley and Heidelberg with Franz Neugelhauer (who lectured at Madison in about 1972). I spent a day on the Arlberg at St. Anton, Austria, photographing the spring flowers at the edge of the

covering from surgery. She is now fully recovered. Last year she joined an engineering group in Virginia which works on Navy contracts, reporting that she is the one solid state chemist in a group with very diverse backgrounds.

Ralph Connor, PhD '32, writes from Sun City, AZ "The Badger Chemist is an excellent job—the best, from my standpoint, of the chemistry news letters I receive." (Wonder if Ralph may be showing a bit of prejudice in favor of the editor who had him as a TA in organic. Ed.)

Don Cromer, BS '47, PhD '51, wrote at Christmas time that he

(Continued on page 9, col. 1)

melting snow (the snow line was about 1900m on June 20, so you could only go to the lower elevations); the crocuses were still in bloom, and the Alpine flowers are quite spectacular. I took over 75 pictures of flowers at St. Anton and south of Munich.

My wife Adrienne is now Supervisor of Rehabilitation at the Visiting Nurse Service, and has a staff of 14 Physical, Occupational, and Speech therapists, which is quite a change from the two P.T.'s at the VNS when she started working there ten years ago.

Our daughter, Chrissy, will be 14 in July ('79) and starts West High in the fall. She is only interested in going to the pool in the summer, and didn't even want to come to Germany to visit for two weeks—swimming, diving, water ballet, and the social life in her set of friends are far more important to her than going to some place where you can't even talk to anyone.

The note does not mention Steve's receiving the Romnes Fellowship this year from the Graduate School, nor the fact that he spoke at 13 Gordon Conferences in 1978 besides giving a number of invited lectures at Yale, New Hampshire, Frederic, Maryland, Eastman Kodak and SUNY, Buffalo.

DEPARTMENTAL PROMOTIONS

It was announced in early June that promotions to professor had been made for Marion H. O'Leary, Hans J. Reich and Worth E. Vaughan. The Chemistry Department had no promotions to associate professor and tenure this year, but it is a pleasure to announce that June L. Dahl, the wife of Professor Dahl, received her tenure promotion to associate professor in the Pharmacology Department.

The following have been named to Emeritus positions: Paul J. Bender, and John E. Willard, whose retirement profiles are developed elsewhere in this newsletter. Other retiring faculty members who are known to Badger Chemists include Philip P. Cohen of the Physiological Chemistry Department and Harold P. Rusch of the Oncology Department. Dr. Rusch was BA '31 in chemistry.

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(Continued from page 8)

and Marjorie were eagerly awaiting the children who are all far from home. Don continues his work on x-ray crystallography at Los Alamos.

David C. Crumrine, PhD '71, writes from Loyola U in Chicago where he is associate professor of chemistry and a colleague of **Harvey Posvic**, PhD '46, who was one of Prof. Johnson's first doctoral students. (The editor remembers Dave as a bright-eyed student in a summer class of high school students to whom he talked at Northern Illinois U in 1961 at the invitation of their director, **Virginia Schelar**, PhD '69. Ginny is now a member of the faculty at Grossmont College, El Cajon, CA.)

Derek A. Davenport, Visiting Professor at Wisconsin 1977-78, is now chairman of the Division of Chemical Education. He is on the faculty at Purdue.

Walter Dean, PhD '72, has left Emory University to join Ethyl Corporation.

Richard C. Deonier, PhD '70 under Williams, has been promoted from Asst. Prof. of Chemistry to Associate Prof. of Biology at U of Southern Cal where he is in the molecular biology program. After completing his work with Prof. Williams he spent three years as a postdoc at Caltech with Norman Davidson.

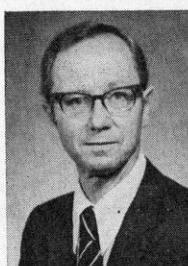
Al A. Denio, Visiting Professor, '69-70, spent last year at U of Delaware where he taught a physical chemistry course and enjoyed escaping a tough Wisconsin winter. Al teaches at UW-Eau Claire.

Armand J. de Rosset, PhD '39, is director of separation research at UOP Inc. (formerly Universal Oil Products Co.) where he has been since graduation except for Army Air Force service during WW II. He recently became chairman of the Gordon Research Conference on Separations. He sends regards to Profs. Williams and Hirschfelder.

James D. D'Ianni, PhD '38, was successful in his candidacy for president-elect of the American Chemical Society and will take over the office of President in January, 1980.

Donald Diehl, PhD '78 with Zimmerman, is with Eastman Kodak's Dye Synthesis Division in Rochester, New York.

Thomas Farrar Joins Department



Thomas C. Farrar has joined the department as full professor. He comes to Wisconsin from Washington, DC where he has been Director of the Chemical Instrumentation Program in the National Science Foundation since 1976. He is associated with the divisions of Analytical and Physical Chemistry in the department and serves as Director of the Chemical Instrumentation Center, the program formerly headed by Professor Bender.

Dr. Farrar was born in Independence, Kansas on Jan. 14, 1933 and received most of his pre-college education in Wichita. He graduated with the B.S. (summa cum laude) from Wichita State U in 1954 with majors in mathematics and chemistry. His graduate work was done at University of Illinois where he worked with Herbert S. Gutowsky; the Ph.D. was awarded in 1959. The next two years were spent in the Department of Theoretical Chemistry in Cambridge University where he was associated with Professors H. C. Longuet-Higgins and Frank Boys.

It was in Cambridge that he met Friedemarie von Lüderitz who became his wife in 1963. She was born in Lüderitz, Germany and had lived in that country until coming to Cambridge. The Farrars have three children, Michael 15, Christian 12, and Gisela 7.

On returning to the U.S., Dr. Farrar taught physical and analytical chemistry at University of Oregon. In 1963 he joined the National Bureau of Standards in Washington, DC where he became head of the Magnetism Section and received the Dept. of Commerce Silver Medal for outstanding work

Edgar A. Dieman, MS '33, sends in a correction. The editor placed him in California. He has never been within 100 miles of that state and lives in Crown Point, IN. He sends regards to Prof. Blaedel.

Glen Dirreen, PhD '72, found the piece on Dr. Schuette an interesting one. Glen is Director of Freshman Laboratories at Madison.

in Molecular Spectroscopy.

While at NBS he also served as lecturer in NBS and NIH training programs. He gave courses in molecular spectroscopy in the NIH Grad Education Program and served as research advisor for graduate students in a joint NIH/NBS lab program.

He joined the JEOL in 1971. JEOL is an international instrument company which produces a broad line of electron microscopes, computers, and analytical, medical, and clinical instruments. He served there as Director of R&D, corporate director of the Analytical Instruments Division and of the Electron Optics and Medical Instruments Division. He was responsible for major design, development, and production in the home office and factory in Japan.

It was in 1976 that Dr. Farrar joined the NSF in the position he held prior to coming to Wisconsin. He is the author of about forty scientific publications and is co-author, with E. D. Becker of NIH, of the book, *Pulse and Fourier Transform NMR: Introduction to Theory and Methods* (1971). He was awarded the NSF Silver Medal for his work in the NSF Division of Information Science.

Tom's work in molecular structure and molecular dynamics is directed at gaining a better understanding of the interrelationships between the structure, dynamics, reactivity, and chemical bonding in model compounds such as H_3BCO , $HCo(CO)_4$, $H_2Fe(CO)_4$, $HFe(CO)_4$, and related molecules. He also uses such molecules as simple models for experimental tests of basic nuclear magnetic resonance theories and quantum chemistry theories.

We welcome Tom to Wisconsin and know that he will maintain the instrumentation program at the high standard set by Paul Bender and will anticipate new developments and make them available to maintain the department's research and teaching at the high level it has attained.

Dietrich Döpp, PD '66-67, was in Madison in late July and presented a special seminar entitled, "Idolene-1-oxides: Photochemistry, Cycloadditions and Fast Rearrangements."

Margaret Draeger, BA '70, MD '74, is pleased to see Prof. Shain (Continued on page 10, col. 1)

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become chancellor. She says he gave her invaluable guidance in her honors thesis. Margaret is now in private practice in obstetrics and gynecology in Muncy, PA.

Eleanor Pennington Dunn, BA '28, claims she knows only "retirees" and "formers" in the *Badger Chemist*. Her class celebrated its 50th last June. One of her grandchildren recently graduated *cum laude* from Illinois.

Heinz Dürr, PD '61-62, presently at University of Saarbrücken, is Chairman of the next IUPAC Symposium on Photochemistry to be held in Innsbruck, Austria.

Carl Eggert, BS '31, writes that though he lives in Illinois (Elgin) his favorite teams are still the Green Bay Packers and the Badger football and baseball teams.

Gary A. Epling, PhD '71, has joined the faculty at Connecticut as Assistant Professor.

Herbert H. Espy, BA '52, PhD '56, is still at the Hercules Research Center in Wilmington. He was recently named a Research Scientist.

William J. Evans, BS '69, is the recipient of a Camille and Henry Dreyfus Teacher-Scholar Grant. He is at U of Chicago where he is studying organometallic reactivity of lanthanide complexes with particular attention toward their function as catalysts. After leaving Wisconsin he studied under M. Frederick Hawthorne at UCLA where he received the PhD in '73. He then had a postdoctoral position with Earl L. Muetterties while the latter was at Cornell.

Harold F. Fenrick, PhD '66, has been promoted to a full professorship at UW-Platteville.

Nicholas Fisher, PhD '70, was happy to see **Erwin Hiebert, PhD '53**, **Bob Siegfried, PhD '52**, and **Homer Le Grand, PhD '71**, at the Humphry Davy Bicentennial in London last December. Nick, Beth, and their two daughters are in Aberdeen, Scotland where Nick holds a history of science position at the University.

Edward H. Forman, PhD '74, has asked to be removed from the mailing list since his degree was in English. Nevertheless, he wrote "Your publication is more interesting than anything I've received from my own department."

Elizabeth Ann Francis, MS '79, now has an address at 907-E Cloister Road, Top of the Hill, Brandywine, Wilmington, DE.

Stephen E. Freeman, BS '31, PhD '35, is retired from the Presidency of Freeman Chemical Corporation (Port Washington, WI) since 1976 but remains active on the Board. Freeman Chemical, a wholly owned subsidiary of H. H. Robertson Co., Pittsburgh, manufactures synthetic resins-alkyds for coatings, unsaturated polyesters for plastic shapes, urethane resin for foams. Steve sends his greetings to Mel and Patty.

Alvin J. Frisque, BS '48, PhD '54, vice-president for R&D at Nalco Chemical reports that the company is building a 27 million Technical Center on the East-West Tollway about 30 miles west of Chicago's Loop. Construction is taking place on Nalco's 50th Anniversary.

Albert J. Fry, PhD '64, from Middletown, CT sends a contribution, but included no news about his recent activities.

Robert Gadwood, PhD '78 with Vedejs, is a postdoc with S. Danishefsky at U of Pittsburgh.

Thomas P. Gannett, PhD '78 with Zimmerman, is with the du Pont Plastics and Resins Department in Wilmington.

Carl E. Georgi, BS '30, PhD (bacty) '34, retired from U of Nebraska-Lincoln in '74 but still teaches an introductory bacteriology course at Southeastern Nebraska Community College. He is also Editor of the *Transactions* of the Nebraska Academy of Sciences and serves as Archivist for the UN School of Life Sciences. In recalling Louis Kahlenberg he remembers LK commenting when prohibition was repealed, "Now they will pipe beer from Fauerbach's Brewery right to the Rathskeller of the Student Union." (Kahlenberg was a teetotaler.)

Cyrelle Gerson, PhD '75, is director of special projects for the American Pharmaceutical Association in Washington.

John P. Gillespie, PhD '72, was in Madison last spring to attend a statistics conference. John is with Elars Chemical Company in Fort Collins, CO where he is guiding new products through the EPA maze.

Milton Glick, PhD '65, has been named Chairman of the Department of Chemistry at Wayne State

University.

Stewart W. Gloyer, PhD '39, wrote about the fond memories he has of Dr. Schuette and about his concern for the welfare of his students. Stewart is retired from Pittsburg Plate but continues to do some consulting for them—and a great deal of traveling.

Steve Goldstein, PhD '73, with Walters, has been made the Supervisor of Pulsed Power Operations Division at Sandia Labs. He joined Sandia in '74 after a postdoc at Iowa State with Velmer Fassel.

Donald E. Gosiewski, PhD '78 with Zimmerman, is now at the Marshall Laboratories of du Pont in Philadelphia.

Frederick Gustafson, PhD '78 with Wright, is now with 3M Corporation in Minnesota.

C. David Gutsche, PhD '47, is a new member of the Advisory Board of *Journal of Organic Chemistry*.

James Hagen, PhD '78 with Vedejs, is a postdoc with C. Heathcock in Berkeley.

Douglas F. Hager, BS '71, received his PhD from Harvard in 1977. He completed a dissertation with Professor R. G. Goodman and is presently with Procter & Gamble.

James L. Hall, PhD '39, of Morgantown, WV sent some sweetener but no news about himself.

Kenneth C. Hancock, PhD '68, has moved from the University of California-Davis to the National Science Foundation where he is Director of Chemical Dynamics.

Robert L. Harris, PhD '51, was motivated to write about the issue dedicated to the Shop Crew two years ago before he slipped it into his thesis where he acknowledged the help of **Lloyd Lincoln** who helped build his x-ray camera for high temperature studies of liquid salts done under the late Prof. Howard L. Ritter. Bob has switched fields and is doing toxicology research for Allied Chemical in Morristown, NJ. His group generates data for use in compliance with the Toxic Substances Control Act.

John R. Hayes, BS '37, has been in correspondence with the editor recently in connection with the possible creation of an alumni newsletter at Penn State University. Dr. Hayes is now retired from his professorship in analytical chemistry and is under pressure

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In Memoriam

Listed below are the names of Badger Chemists whose deaths have come to our attention in the past year. Also included are a few persons whose names are familiar to many of our readers. Ed.

Louise Mae Spivey Adkins, 84, the widow of Professor Homer Adkins, passed away on April 13, 1979 in Redmond, Washington. She is buried in Madison where a memorial service was held at the First Congregational Church on May 18. She had resided in Bellevue, Washington for many years where she was near her daughters, Suzanne Dorothea (Mrs. Gordon Chadek) and Nancé (Mrs. Ellsworth Daley). A son, Roger, is in government service (Budget Bureau) in Washington, DC.

Homer Adkins died of heart failure in 1949 at the height of a distinguished career in organic chemistry. He joined the UW faculty in 1919 and very quickly emerged as a leader among such American organic chemists as Roger Adams, James Conant, Frank Whittmore, Henry Gilman, and S. M. McElvain. He was widely known for his work on catalytic hydrogenation. During his career at Wisconsin he was major professor for more than 100 doctoral candidates.

Arnold Aubey, BS '23, died on March 30, 1979 at the Veteran's Home in King, Wis. He was a research chemist at the Ray-O-Vac Company in Madison from graduation until 1943 when he retired because of a medical disability. His son, Rolland Aubey, BS '49, is with Nekoosa Papers Inc. in Port Edwards, WI.

John Coon, PhD '50, died several years ago according to Professor Bender. John had been at Shell Chemical in Martinez, CA.

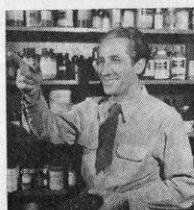


Sidney J. French, MS '26, PhD '28, died on May 20, 1979 at St. Petersburg, FL. He taught briefly at Franklin College before beginning his long association with Colgate University where he served as dean of faculty during his last nine years there. In 1954 he became dean at Rollins College and soon thereafter became dean of academic affairs at the newly created Uni-

versity of South Florida in Tampa. An early enthusiast for general education, he was active in design of courses and curricula which coordinated the sciences and humanities and was coauthor of a text in physical science. He was also the author of *Torch and Crucible*, a biography of Lavoisier and, shortly before his death was working on the final chapter of his autobiography. This will be finished by his wife, Florence Fenton, who took an MA at Wisconsin in '28.

Ralph W. Gooding, BS '22, PhD '31, died in 1978 at age 83. After taking his doctorate with Professor Walton he joined the faculty of Illinois State U in Normal and spent 33 years there, the last 15 as head of the physical sciences department. He retired in 1964. Between 1944 and 1959 he was manager of the Bloomington-Normal Sanitary District.

Harold Gram, PhD '31, died May 4, 1977 according to a recent letter from his widow. Following chemical work at Newport Chemical Co. he operated a fur-dyeing business in Waterman, IL.



Karl Paul Link, Rattor, died at his home at 1111 Willow Lane, The Highlands on November 22, 1978 after a lengthy illness. He was

a distinguished member of the Biochemistry Department at the UW from 1927 until his retirement in 1971. He was noted for his discovery of dicoumarin, the compound responsible for failure of blood of cattle fed spoiled sweet clover hay to coagulate. Link was not only an outstanding scientist but a talented teacher and an iconoclast who loved to goad prominent figures at the university.

Born in LaPorte, Indiana on Jan. 31, 1901, he was the son of a clergyman and the brother of nine siblings—five brothers and four sisters. He came to Madison in 1918 as a student in agricultural chemistry, took his BS in 1922, his MS in '23 and the PhD in '25. His graduate work was done under Prof. Wm. E. Tottingham, plant

biochemist. His next two years were spent in Europe as an International Education Board Fellow. He did research on sugar chemistry with James Irvine at St. Andrews and Paul Karrer at Zurich. He also worked at Graz where he learned organic microanalysis from Fritz Pregl. Link introduced microanalysis at Wisconsin when he returned to the agricultural chemistry department as assistant professor in 1927. He became a full professor in 1931.

For many years K.P. offered a course in carbohydrate chemistry as a night course in the chemistry department. In 1940 this was incorporated into a course in advanced organic chemistry in which Link dealt with carbohydrates, A. L. Wilds with sterols, and M. Klein with dyes. Link was an effective teacher who was not only a master of carbohydrate chemistry but placed the subject into historical context. He had a keen sense of the humorous and enjoyed deflating those scientists who took themselves too seriously.

He was also a talented scientist who directed graduate students effectively. His most noteworthy research led to the isolation of 4-hydroxy-coumarin from spoiled sweet clover hay and the demonstration that the compound was responsible for failure of blood to clot when cattle consumed such feed. This research led to development of Dicoumarol as an anti-coagulant in human medicine and the rat poison known as Warfarin.

Link's best known graduate student is Stanford Moore, Professor of Biochemistry at Rockefeller University and 1972 Nobel Laureate in Chemistry who took his doctorate in the chemistry department in 1938, but did his research with Link with Adkins serving as departmental sponsor.

Well-known on campus for his defiance of convention, Link was frequently an outspoken critic of faculty colleagues, the university administration, and WARF, as well as figures on the national and international scene. His wife Elizabeth, whom he married in 1930, was a longtime activist in the peace movement and KP was an effective supporter of her work.

Dr. Link is survived by his widow and three sons, John, Thomas, and Paul, three sisters, two brothers, and five grandchildren.

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In Memoriam

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dren. Son John, a PhD from Caltech has been an astrophysicist at U of Colorado. Son Tom has a PhD in molecular biology from Stanford ('71) where he worked under George Stark who was Stanford Moore's first PhD at Rockefeller U. Tom then went to U of Oregon. Paul is a PhD candidate in geology at U of California-Santa Barbara.

Rudolph Nagy, BS '32, died in April 1979 at Woodruff, Wisconsin.

Donald C. Slichter, 78, died in his sleep at his Lake Mendota home on October 15, 1978. He retired from the presidency of Northwestern Mutual Life Insurance Co., Milwaukee in 1964. He was a graduate of the university, '22, a lifelong backer, a past president of the Alumni Association, and an honorary LL.D. '64. He was the last surviving son of Charles Sumner Slichter (1864-1946) who became a member of the math department in 1886 and who served from 1920 to 1934 as dean of the graduate school. Dean Slichter, known in faculty circles as "Hell-Roaring Charlie," played an important role in the growth of graduate studies after World War I and had a leading role in the creation of WARF. Former Dean Mark Ingraham is the author of a fascinating biography of Dean Slichter, published by the UW Press in 1972.

Warren Weaver, mathematician and administrator, died November 24, 1978 at age 84. Weaver earned three degrees at Wisconsin in engineering, physics, and mathematics and was on the math faculty from 1920 to 1932. The university conferred an honorary LL.D. on him in '48 after long service with the Rockefeller Foundation. In 1959 he became vice-president of the Foundation and upon his retirement in 1964 was an independent consultant on scientific affairs. At its meeting in Houston in January 1979 the AAAS Board adopted the following:

"Warren Weaver will be remembered for many reasons. He early understood how greatly the tools and techniques of physics and chemistry could advance knowledge of biological processes, and used his position in the Rockefeller Foundation to identify, support, and encourage the young scientists

who years later earned Nobel Prizes and other honors for their contributions to genetics or molecular biology.

"As a skilled interpreter of science, he helped many audiences to understand the sweep and nature of scientific work. His collaboration with Claude E. Shannon on THE MATHEMATICAL THEORY OF COMMUNICATION introduced scientists from a broad range of interests to the power and usefulness of communication theory. His deep personal commitment to improving the public understanding of science was honored in 1965 by award of the first Arches of Science Medal for outstanding contributions to the public understanding of the meaning of science to contemporary men and women, and in the same year by award of UNESCO's Kalinga Prize for distinguished contributions to the popular understanding of science."

Weaver's autobiography, *Scene of Change* (1970), has chapters on his student and faculty days at Wisconsin as well as details of his later activities.

Edwin O. Wiig, PhD '27, died on Nov. 13, 1978 in San Diego at age 79. Following his BS at Rensselaer in 1921, he was chemist at Eastman Kodak and Rochester Gas Company until coming to Wisconsin in 1923. He took his degree with Professor Walton and continued at Wisconsin as an instructor in general chemistry for two years after completing his doctorate. In 1929 he became a National Research Council Fellow, doing work at Princeton, Harvard, Berlin, and Frankfort. He began his long association with the University of Rochester in 1932, and served as departmental chairman from 1955 until his retirement. During WW II he was associated with the NDRC. His interests lay in the field of adsorption of gases on solids and nuclear chemistry. He was section editor for nuclear phenomena for CA from 1950-61.

Warren W. Woessner, PhD '40, died on March 21, 1978 after several years of painful illness. He had been retired from du Pont's plant in New Brunswick, NJ since 1974. He was a TA for Prof. Schuette while in grad school. Two sons have Wisconsin PhD's: Warren D. in chemistry and William in geology.

This 'n' That . . .

(Continued from page 10)

from his chairman to take over production of a departmental newsletter. The editor of Badger Chemist spelled out for him in detail the many frustrations of such an alumni letter. We haven't heard whether Dr. Hayes has been turned off or whether Penn State alumni will receive a newsletter.

Louis F. Heckelsberg, PhD '51, sent "sweetener" but no news.

Robert Hembre, MS '79 with Casey, is at Tennessee Eastman.

William B. Herdle, PhD '75, continues with Union Carbide in Tarrytown, NY. His letter suggests that we return to the practice of listing recent graduates and their major professors. How about it? Would others like this information? If enough Badgers are interested it will be restored. It was deleted since the information was usually not readily available until late in the year and no one seemed to comment on it. Bill also inquired about the number of BC copies printed each issue. The answer is 3000. There are at least 500 additional living alumni whose addresses are no longer available. He volunteered the information that **Richard A. Budnik**, PhD '74, is a fellow chemist at Carbide.

Richard Hess, PhD '71, has been with du Pont since completing his degree with Treichel. After 2 years work on inorganic pigments and 2 years supervising TiO_2 research he has become product manager for ferric chloride in the newly formed Chemicals, Dyes, and Pigments Dept. $FeCl_3$ is a by-product of TiO_2 manufacture which has customarily been hauled out to sea and dumped. The compound is now upgraded for sale as a coagulant, phosphate precipitant and sludge conditioner in treatment of waste water and potable water.

Ernest Hesse, BA '32, still hasn't made that long promised visit to the East, but he has made trips to Anchorage and Acapulco. What do they have that Madison hasn't?

Erwin Hiebert, PhD '53, returned from a summer of historical research in Germany and London to be a featured participant in the Einstein Symposium at the Washington ACS meeting. Erwin is among the chemists registered at the Sheraton Park who can tell weird tales of being housed in a

(Continued on page 14, col. 3)

McElvain Laboratories Dedicated

The organic laboratories in the Daniels-Mathews Chemistry Building were named the Samuel M. McElvain Laboratories of Organic Chemistry at a ceremony held in the Chemistry Auditorium on March 15, 1979. Helen, widow of Professor McElvain, was guest of honor.

Barry Trost served as master-of-ceremonies. Aaron Ihde made some remarks about Dr. McElvain's career and Harlan Goering,

ard Zimmerman who was a post-doc in Woodward's lab in '53-54.

Professor McElvain joined the chemistry faculty in 1923, immediately after completing his Ph.D. at University of Illinois under Roger Adams. At Wisconsin Dr. McElvain immediately initiated a vigorous research program dealing with the synthesis of nitrogen compounds with anesthetic properties. He was particularly interested in the relation between struc-

ture and pharmacological action; these studies led to a dozen patents. He also made extensive studies on Ketene acetals and orthoesters. His skill as a research director resulted in the guidance of 80 students to the Ph.D., besides work with several postdoctoral students. He became well-known to many students for his demanding course in "Characterization of Organic Compounds."

Alongside Homer Adkins, who was a member of the organic division for 30 years before his untimely death in 1949, Dr. McElvain brought wide recognition to the department.



Chancellor Irving Shain, Mrs. S. M. McElvain with the plaque.

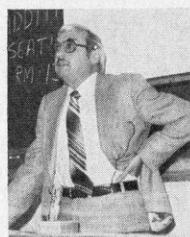
who is S. M. McElvain Professor, followed with comments on McElvain as an investigator, classifying him as a chemist with "style."

Chancellor Irving Shain accepted, on behalf of the University, a bronze plaque which reads, "These laboratories are dedicated to the memory of Samuel Marion McElvain (1897-1973). A member of the University of Wisconsin chemistry faculty from 1923 to 1961, he brought distinction to the university and the profession as a teacher, scholar, leader, visionary and friend."

The dedication was followed by a lecture by the late Robert Burns Woodward, Downer Professor of Science at Harvard and Nobel Laureate in Chemistry in 1965. Woodward's title was his customary "Recent Advances in the Chemistry of Natural Products." Specifically, his subject dealt with the synthesis of Erythronolide A, the aglycone of Erythromycin. The speaker was introduced by How-



Barry Trost



Harlan Goering



Front row, Irving Shain, Howard Zimmerman, Robert B. Woodward; Second row, Prof. Charles Casey, Grace Legler (longtime organic secretary), Helen McElvain.

A Greek Tragedy

The Greek dramatists of the Golden Age (5th century B.C.) created immortal tragedies in which well-meaning men and women suffered dire consequences as the result of small decisions which led to crises which could not be resolved satisfactorily. The chemistry department has been part of such a tragedy in recent years.

The friction generated in the Analytical Division and resulted, several years ago, in a bifurcation which led to the splitting of that division into two—Analytical Chemistry, Physical Methods and Analytical Chemistry, Chemical Methods. Professor Walter Blaedel is the sole member of the latter division. All other analytical chemists on the faculty chose to join the physical methods division. This subdivision was approved by the Departmental faculty on Feb. 12, 1977.

The friction within the old division had been generating for many years. Blaedel was unhappy with the direction being taken in the analytical division, both with respect to teaching of undergraduate analytical courses and requirements for graduate students in the division. The bifurcation was triggered by a seminar given by Blaedel before students in the analytical seminar in Sept. 1976. The seminar was titled: "An Evaluation of Some Requirements for the Ph.D. Degree in Analytical Chemistry at Wisconsin—A Dissenting Minority Opinion."

The bifurcation action has not stopped the dissent; its principal effect has been to elevate the problem from a divisional controversy to a departmental controversy, and now it has become a university level controversy. Successive efforts to resolve the problem harmoniously failed because of failure of parties involved to interpret the issues in the same manner. Professor Blaedel has assembled a mass of material presenting his grievances regarding the analytical chemistry program as well as documenting his views of his treatment by the department. This material has been circulated to his faculty colleagues as well as to analytical chemists outside the university.

In 1974, following several years of worsening relations between

Blaedel and his analytical colleagues, he submitted a letter of resignation before the fall semester began. The letter alleged a deterioration in quality of teaching in the division, a deterioration he claimed he could not halt. He felt he could no longer function effectively as a teacher and investigator. Vice-Chancellor Shain and Chairman Fenske persuaded him to withdraw his letter and provided a special research leave without teaching that semester. Over the next several years there were efforts to resolve problems through altered teaching assignments but relations continued to deteriorate.

In response to Blaedel's unwillingness to accept the teaching assignment of an undergrad quant course in fall 1978 a few weeks before classes were to begin, sentiment developed among some departmental colleagues for his ouster. Shain, now chancellor, worked out a tentative proposal for transfer of Blaedel's research program to the medical school, with no teaching responsibilities in the chemistry department. Blaedel refused to accept reassignment.

In planning second semester responsibilities, Blaedel was assigned a section of quant. Again he declined to teach the course. His unwillingness was based upon the claim that he could not teach the course safely, effectively, and fairly. However, he reported to the class for the first meeting, explained why he could not teach the course and turned the class over to Chairman Evans.

At this point Dean David Cronon authorized a substantial reduction of Blaedel's salary. In addition, a formal complaint was approved by a 29-2 vote of the chemistry faculty and forwarded to the administration. The complaint is now before the University's Committee on Faculty Rights and Responsibilities for action, the first such case to come before the committee. No precedent for action exists. Because of the size and complexity of the university one may be sure that cases of this sort will be characterized by a minimum of good will and a maximum of legal complexity. Hearings were held in July and recessed. They are scheduled to resume early in October.

Editor's note: The above was written by Aaron J. Ihde. He has attempted to present the facts as he is familiar with them, and with

an attempt to avoid any personal bias. No one read the manuscript before it went to the printer since he wished to avoid delays raised by quibbles from anyone in an adversary position. He believes the facts and interpretations are sound and he accepts full responsibility for the story. The story was not carried in earlier issues of BC because all organizations suffer from personality conflicts arising from different interpretations of the same issues. Frequently such conflicts become resolved within the organization. This one did not. It is now becoming a part of the department's public history. Unfortunately it is a deep tragedy in which everyone suffers.

This 'n' That . . .

(Continued from page 12)

hotel undergoing massive reconstruction in the midst of the meeting.

Mrs. Gertrude Hineline reported that she is having two stained glass windows with religious and musical themes installed in the Community Church at the Circle in Mount Vernon, NY, in memory of her husband, **Harris D. Hineline**, BS '32, whose death was reported in BC 23.



Ralph F. Hirschmann, PhD '50, has become Senior Vice President for Basic Research of Merck Sharp & Dohme Research Laboratories. Born in Bavaria, Dr. Hirschmann was educated at Oberlin and Wisconsin. At MSD since 1950, he has advanced steadily in responsibility. In 1969 he co-directed the program which led to the total synthesis of the enzyme, ribonuclease S.

W. Floyd Holbrook, BS '20, of Salem, OR appreciated the article on Dr. Schuette who taught him food chem in 1919. He recalled that **F. T. Jung**, BS '19 was also in that class. Jung taught chemistry at U of Pittsburgh for a year, then studied medicine in Chicago and had an outstanding medical career.

Chris Hollinsed, PhD '79 with Nelsen, has been with Polaroid in

(Continued on page 17, col. 1)

Paul Bender Had a Party

Professor Bender was honored by a host of former students, colleagues, and friends at a retirement party held at the Madison Club on September 14, 1979. As in the case of Dr. Willard's party, pictures portray the spirit of the occasion better than words.

Paul insisted that there be no tributes so the arrangements committee obliged with a program of studied insults capped with a few gifts: a scale model of the Varian A-60A as a memento of many happy (?) hours keeping the real

NMR operative; a glow tube constructed from a voltage regulator tube for the magnet power supply on the HA-100 NMR, both items constructed by the Shop Crew. Jim Leddy returned his lecture notes for Chem 135 since, after 20 years on his desk, even osmosis hadn't led to understanding. Paul accepted them with the comment, "For osmosis to work you must provide a semi-permeable membrane." Al Prince provided a plaque attesting to the success of the Bender softball team.

John Walters, chairman of the planning committee and MC closed the program by displaying a circuit diagram and handing Paul a

letter inviting him to pick up a sophisticated personal computer purchased with more than \$2000 in contributions by his friends.

Out-of-town guests included: former students Dennis Gehri, Gene Pontrelli, Hank Shuey,* Bernie Iwanciow* (of United Technology), John Hyndman* (Goodyear), George Furukawa (Nat'l. Bur. Standards), Al Prince, Jim Leddy, Ron Kagel (Dow), Marvin Lang* (UW-Stevens Point), and Larry Sims (U Oregon); friends associated with instrument firms were Robert Martin and Jack Doherty of JEOL, and Dorothy Shea* of Varian.

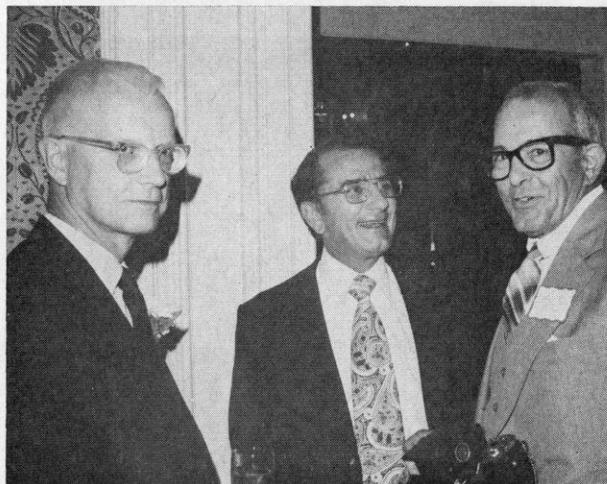
(Note: Spouses indicated by *).



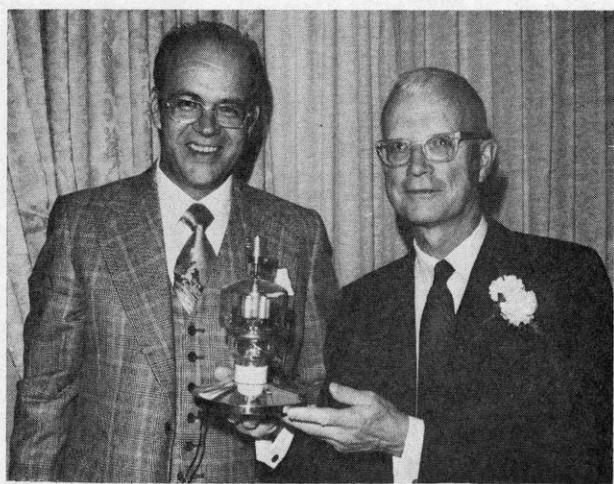
L. to r., Margaret Bender, Paul Bender, John Walters, Mrs. Irving Shain with mementos.



James Leddy, PhD '55 with Larsen, returning his lecture notes for Advanced Thermodynamics (unosmosed) to Paul while Margaret enjoys the incident.



Paul with Gene Pontrelli, PhD '63 of du Pont (center) and Henry Shuey, PhD '49, of Rohm & Haas's Huntsville Defense Contract Office.



John Walters and Paul with specially modified Voltage Regulator Tube for HA-100 NMR.
(See page 16 for more)

SOME SCENES AT THE BENDER PARTY

Photos by Gary Schultz, UW Photo Lab



Scale Model Varian NMR Model A-60A



Discussing old times. L. to r., Professors John Harriman and Dan Cornwell with Gene Pontrelli, PhD '63 and Dennis Gehri, PhD '68.



Allen Prince, PhD '56, Dow Chemical, with Joe and Betty Hirschfelder.



Discussing recent times. L. to r., Sue Kontney, Marvin Kontney, specialist in the departmental instrumental program, Professors Bassam Shakhashiri and Phil Certain.



Clarifying some Shop Problems are l. to r., Russell Riley, Instrument Builder and Manager of the departmental Machine Shop, Mrs. Riley, the former Dorothy Walczak when she was a secretary in the department, and John Walters.

This 'n' That . . .*(Continued from page 14)*

Cambridge, Massachusetts since March.

Harrison H. Holmes, BS '30, PhD '34, received BC 25 and a copy of the Daniels Biography the same week. His reaction to the latter: "What a monumental job by a talented person! To have his career recorded so vividly and lovingly is fortunate for the University and scholars everywhere." Although retired in Wilmington, DE he still does some consulting on explosives.

George C. Hood, Jr., BS '48, PhD '51, is spending two years in Amsterdam as Director of Oil Research at Shell Research BV. Two Hood children attend colleges in Texas, two are in the International School in Amsterdam.

Michael C. Hovey, PhD '78 with Zimmerman, is with du Pont in Wilmington.

Clayton Huggett, BS '38, PhD (Minnesota), recently received the US Dept. of Commerce Silver Medal Award for "significant contributions in focusing public and private sector research on fundamental fire problems." At the National Bureau of Standards, Gaithersburg, MD he is Chief of the Office of Extramural Fire Research.

Glenn E. Irish, PhD '50, is with Union Oil, not Universal Oil as surmised in BC 25, according to **Bob Harris**, PhD '51.

Douglas M. Jackson, BS '75, received the Houghton Award of the Charitable, Educational and Scientific Foundation of the Medical Society of Wisconsin. He recently finished his MD at Wisconsin Medical College (former Marquette Medical School).

Harold Jeskey, PhD '42, has retired from his duties in the chemistry department at Southern Methodist.

Russell Johnsen, PhD '51, continues his teaching and research at Florida State while doubling as associate dean of the graduate school. Son Peter, who was a Wisconsin undergrad, has completed a Wisconsin PhD under Prof. A. Hasler on homing of fish through olfactory sense and is now on a postdoc at Penn where these studies are being continued.

Donald R. Johnson, PhD '54, has been active in recent years in du Pont's instrumentation program in

clinical chemistry. He has close contact with the UW Medical Center's clinical chemistry program.

Elmer Johnson, PhD '40, retired from South Dakota State, reports that he and Roberta had a month long tour of Norway and the British Isles in 1978.

Richard P. Johnson, PD with Zimmerman, '78-79, has joined the Iowa State Chemistry Department as an Assistant Professor.

Thomas Jones, PhD '37, sent Christmas greetings from Washington, DC, but without news.

John A. Keenan, BA '30, PhD (Biochem) '34, says that 50% retirement is a good mix of work, travel, and just loafing.

Reinhart Keese, PD with Zimmerman in '61-63, is now H-3 Professor of Chemistry at University of Bern.

Carl Kessel, PhD '79, was a recipient of a McElvain Outstanding Graduate Student Award last spring. He is now doing postdoctoral work with Dauben at Berkeley.

Robert E. Kettler, BS '75, received his MD from the Medical College of Wisconsin, Milwaukee on May 27. He is now serving a residency in anesthesiology at the University of Texas Southwestern Affiliated Hospitals in Dallas.

Frank Korman, PD with Ihde in '73-74, carries out molecular biological work in the UCLA biology department and, on the side, he has compiled a dictionary of African names with tribal origins and English meanings.

Randy Korotev, BS '71, PhD '76, is Research Scientist with the geochemistry group of the Earth and Planetary Sciences in Washington U (St. Louis) where **Larry Haskin**, formerly of the UW chem faculty, is chairman of the department.

John A. Korth, MS '40, retired on January 1, 1979.

Richard J. Kraemer, BS '62, has been assistant dean in the School of Pharmacy at U of Colorado but has now returned to the classroom where he teaches Pathology and Pharmacology. Dick reports that he comes from a long lineage of chemists including **Elmer O. Kraemer**, PhD '24, who worked with Svedberg, and was associate professor of colloid chemistry at Wisconsin, '25-27 before becoming colloid group leader at du Pont; his son Herbert (Dick's father) took chem. engr. degrees, BS at U of Delaware, PhD U of Illinois and

was with Commercial Solvents, Ethyl Corp., and General Mills. On the other side of the family are **Rodney J. Sime**, BS '55, PhD (Washington-Seattle) '59 who is now at Sacramento State. Dick sent a Kahlenberg lab manual dated 1907 which was recovered from an old rooming house on the site of the Daniels Chem. Bldg.

Carl H. Krieger, BS '33, PhD (biochem) '40, reports running into Mel and Patty at the Madison Club on Nov. 17, 1978—"Both looked great!"

Walter Kutz, PhD '30, sent sweetener from Santa Rosa, CA, but failed to report on activities.

Douglas LaFollette, PD '68-69, who had been Wisconsin's Secretary of State for four years, was an unsuccessful candidate for Lieutenant Governor in November 1978 when the Dreyfus landslide wiped out the Democratic candidates for Governor and Lt. Governor. Doug is now director of the Union of Concerned Scientists in Washington, DC and Cambridge, MA.

Jordan K. Lampert was finishing his master's degree with Professor Crim in summer '79.

Robert Landis, PhD '73, will spend several years in Hawaii in behalf of the Naval Research Center. Prof. Steve Nelsen reports "Bob is doing something I don't quite understand with submarines."

Gilbert D. Lee, BS '72, has completed his PhD at MIT and joined the chem. faculty at Bryn Mawr.

Donald Lewis, PhD '48, who has been doing computer systems development with Shell in Houston, has become expert in another area according to a Christmas letter sent along to the editor by Mrs. Daniels. Don is now a Professor of Anthropology at U of Texas at San Antonio where he teaches a course in Archaeometry (chem and physics applied to archeology) and works at the Center for Archaeological Research. The Lewis family attended an international meeting on archeometry in Bonn, Germany early in 1978. Then, after visiting Dutch friends, they made an extensive tour of Greece and the Nile Valley.

Thomas Lloyd, longtime mechanician whose retirement was featured in BC 24 writes that "This sunny land (Arizona) is a good place to retire," but wishes they could have another home in Wis-

(Continued on page 18, col. 1)

This 'n' That . . .

(Continued from page 17)

consin. Tom was a departmental visitor on June 13, 1979.

Lester G. Lundsted, PhD '42, has retired from BASF Wyandotte after 36 years. He has been a Director of Research-Organic. He plans to do consulting on research administration and on surfactant problems on a part-time basis. His address is now 7781 Horse Mill Rd., Grosse Isle, MI.

Patrick S. Mariano, PhD '69, has left Texas A&M to a Full Professorship at U of Maryland.

Raymond Mariella, PD '46 with McElvain, is the Executive Director of ACS.

James A. Marshall, BS '57, PhD (Michigan) '60, is the winner of the ACS Guenther Award sponsored by Fritzche, Dodge & Olcott for 1979. The \$2000 and gold medal were presented at the Hawaii meeting. Jim is a professor at Northwestern where he has been studying the synthesis of natural plant products, the field to which he was introduced at the UW by his thesis professor, the late **Morris Kupchan**. Besides his work on pseudoguaianolides he has developed a new technique for locking an intermediate compound to a critical point while steering the reaction to completion. He has synthesized two compounds which may have anti-tumor properties.

Eldor A. Marten, BS '25, PhD (biochem) '29, made two Madison visits during the past year from his home in Marysville, OH where he is retired from Nestle Labs. Eldor had numerous recollections of Professors Kahlenberg, Schuette, Mathews, Lenher, Svedberg, and Fischer of chemistry, and of W. Peterson of agricultural chemistry. He did his doctoral work on the fermentation products of sauerkraut. He entered the UW with advanced standing from Oshkosh Teachers College and with analytical experience at the iron mines at Hibbing, MN. At Hibbing samples were ground in mortar and pestle until they no longer felt gritty between the teeth! He reports frequently seeing **R. J. Timmons**, PhD '62, who is with the O. M. Scott Co. in Marysville, and **Robert S. Klang**, BS '48, with Transportation Research.

Bruce N. McBane, MS '41, writes from Gibsonia, PA, "I do greatly appreciate the informative *Badger Chemist*. I look forward to its

coming."

Keith McCallum, BS '42, PhD '50, writes that he reports to a fellow Badger Chemist, **David Fordyce**, PhD '50, who has two bosses, both Wisconsin men, Hank Schneider and **Robert Ross**, PhD '48.

Edgar D. McCollum, PhD '25, and his wife who celebrated their 50th anniversary in '78, have been active in saving the dunes near their retirement home in Bridgeman, MI from sand mining. He was head of the ink department at R. R. Donnelly and Sons Lakeside Press until 1960.

Rudd A. Meiklejohn, MS '54, continues at 3M's Central Research Labs. He fondly remembers Prof. Schuette as his freshman adviser in 1937.

Catherine Hurt Middlecamp, PhD '76, has left Hobart College to join **Betsy Kean**, PhD '74, in the Chemistry Dept's program for disadvantaged students.

James W. Miller, PhD '79, is now with Central Research of Pfizer in Groton, CT.

John R. Miller, PhD '71, and **Pat Froben**, research associate with Willard, joined in sending some "help" for BC when the latter was visiting the US. Pat is a faculty member in the Free University of Berlin. John is at Argonne.

Marvin Miller, PhD '78 with Wright, is with Owens Corning in Columbus.

Nels Minne, PhD '32, and the editor finally met in the flesh when the latter's lecture at Winona State found Dr. Minne in the audience. The two had a pleasant visit at the Minne home later. Dr. Minne finished his career as President of the college. A science building carries his name.

Therald Moeller, PhD '38, has a busy schedule of writing at Arizona State—Freshman text finished a year ago, a new inorganic text, and two volumes on lanthanides for *Gmelin's Handbuch*.

David C. Molzahn, PhD '78, is at Dow Chemical. In Sept. '78 he married **Marcelle LaPorte**, MS '77, who is a chemist at Dow Corning. They live at 501 Cortland, Midland.

Michael Mullins, PhD '78 with Vedejs, is now a postdoc with Professor P. Gasman at Minnesota.

Charles R. Naeser, BS '31, corrects the editor who retired him from the wrong university. He really spent his long career at

George Washington U and it is there that a lecture room bears his name.

Gary Nelb, PhD '78 with Ferry, is at du Pont in Wilmington.

Stephen Neumann, PhD '78 with Casey, is at Eastman Kodak.

Philip T. Newsome, PhD '26, says "Thanks for the *Badger Chemist*." He writes from 488 Sagamore Dr., Rochester, NY.

Ambrose R. Nichols, Jr., PhD '39, has pleasant memories of Prof. Schuette whose office was down the hall from the Walton lab where Amby worked. He feels a great debt to him for having started BC and kept it going for nearly 20 years. He enjoys seeing names of his era, faculty and students: Hirschfelder, Holt, Mel, Sorum, Willard, Bridgeman, Gloyer, Jim Hall, Elmer Johnson, Elmer Larsen, Levin, Moeller, Peterson, and Burkett.

M. Starr Nichols, BS '16, MS '18, PhD (biol. chem) '26, virtually repeated the remarks of Ambrose Nichols (no kin) re: Dr. Schuette and BC. Dr. Nichols was a registered pharmacist before entering Chem Course. He became Chemist of the State Laboratory of Hygiene in 1916; retired as Emeritus Prof. of Sanitary Chemistry and Asst. Director, Wis. Lab of Hygiene in 1959. He presently lives at 6201 Mineral Point Rd., Madison.

Stephen Nicksic, PhD '52, also appreciated the biographical sketch of Dr. Schuette who was his major professor. Steve visits Wisconsin occasionally but has deep roots in the Los Angeles area with 4 grandchildren nearby.

Morris L. Nielsen, PhD '41, who is retired from Parke Davis in Richland, MI missed seeing Prof. Larsen by minutes on August 24. His note reports that he keeps busy taping books for the blind.

Warren Z. Olson, BS '30, lives at 1733 Park St., Middleton, WI. No news.

Albert Padwa, PD '62-63 with HEZ, is leaving SUNY-Buffalo for a Full Professorship at Emory University.

Jurij Paraszczak, PD with Willard, left in January for a postdoctoral appointment at the IBM Laboratories at Yorktown Heights, NY.

Val Peacock, PhD '78 with Nelson, is postdocing at Oregon State

(Continued on page 20, col. 1)

John Willard Had a Party

Professor Willard was honored three days before his seventieth birthday at a party arranged by James Chien, chairman, with Drs. Carnell, Firestone, Miller, Sauer and Professor H. Yu. Great Hall in the Memorial Union was the setting for a gathering of former students, faculty colleagues, relatives, and friends on October 28, 1978. Pictures taken by Gary Schultz, university photographer, convey the spirit of the occasion better than words so we shall let pictures tell the story. Jimmy Chien served as MC and was assisted in presentation of gifts by Drs. Miller, Firestone, Sauer, Carnall, and Higuchi.

Gifts were: a collection of congratulatory letters, 4 bound volumes of scientific papers dedicated to John, the October issue of *Journal of Physical Chemistry*—a Willard Festschrift, an Olympus camera with all accessories, and 25 cans of tennis balls. Announcement was also made of the creation of a fund to establish a Willard Lectureship. The fund presently is sufficient to support such a lectureship for about 15 years. Contributions continue to be accepted by the Wisconsin Foundation.

All of the Willard children were present at the party along with a number of other relatives. Included among the latter were nieces Karen and Sue Ela whose role in

starting women's rowing at Wisconsin has been followed with pride by John and Adelaide. Sue, who rowed on the highly successful varsity crew between '72 and '75 has recently been named coach of women's crew at UW, after several years as freshman coach.

Former students and postdocs were: Don Ames, Wm. Carnall,* Jimmy Chien,* Harold Fenrick,* Dick Firestone,* Bill French,* Evalyn and Jim Hornig, Jim Jemola, Thomas Lantz,* Wing Kam, John Miller,* Myran Sauer,* Less-

lie Seely, A. Harry Young,* Rold Hahne, Takeru Higuchi,* Francis Johnson, Gerrit Levey,* Richard Martin, Alan Ling,* Aubrey Wood,* and Denis Wilkey. Mrs. Sukumar Aditya represented her postdoc husband who is a professor at U of Calcutta and could not be present. Present postdocs in attendance were Jurij Paraszczak, H. Y. Wang, and Debasis Bhattacharya.

(Note: Wives who attended are marked by an * above).

The Willard Clan



Front row, John and Adelaide, Ann and Kirk Bozdogan, Mark; Back row, Robert, David, Edwin Ela (a nephew), Karen Ela and Sue Ela (nieces).



John Receiving gifts from James Chien, PhD '54, Univ. of Massachusetts. Others in the picture include, l. to r., Donald Ames, PhD '49, V-P for Research at McDonald Douglas Aircraft, Richard Firestone, PhD '54, (standing), Ohio State U, and Mrs. Chien.



L. to r., John Willard, Millie Shain, Chancellor Irving Shain, Prof. Harlan Goering in background between the Shains.

(See page 20 for more)

MORE SCENES

FROM THE

WILLARD PARTY

Photos by Gary Schultz



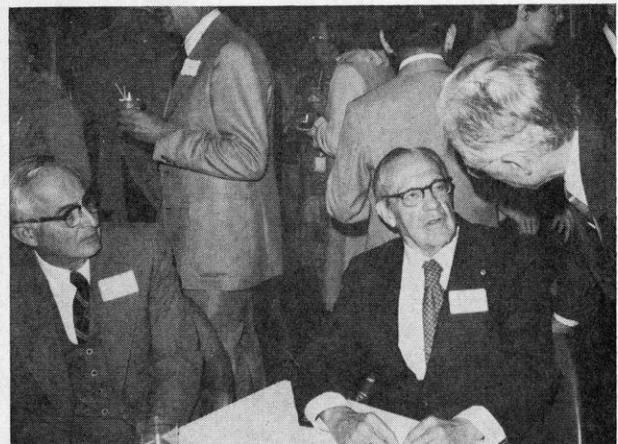
John accepting gift from Myran Sauer, PhD '58, Argonne National Laboratory.



John receiving supply of tennis balls.



The Willards with Takeru Higuchi, PhD '43, Regent Distinguished Professor at U of Kansas, and Mrs. Aya Higuchi.



Conversation with UW chemical engineering Emeritus Professors Charles C. Watson, PhD '38, (left) and Olaf Hougen.

This 'n' That . . .

(Continued from page 18)

on a Brewers Association Fellowship. He has had considerable success in using VPC mass spec. to identify flavor constituents in beer.

Steven L. Peake, PhD '79 with Reich, has a position with American Cyanamid Co.

Stanford S. Penner, PhD '46, was a Sigma Xi lecturer in 1978, dealing with subjects involving energy technologies. From 1947-63 he was with the Jet Propulsion Lab at Cal Tech. In 1962-64 he was associated with the Institute for Defense Analysis and in '64 became the first chairman of the Dept. of Aerospace and Mechanical Engr. Sciences at U of California-San Diego. He is founder-editor of the journal *Energy* and fellow of the American Acad. of Arts and Sciences, and member of the Natl. Acad. of Engineering.

Fredus N. Peters, Jr., PhD '25, responded to BC 25 "As usual it was very interesting—and again as usual—another link with the past was broken—Henry Schuette is gone. He was a great guy and influenced many lives for the better." Pete reports the highlight of the year—he and Helen celebrated their 60th wedding anniversary.

Jeff Petersen, PhD '74 has completed his fourth year at West Virginia U.

Paul S. Pinkney, BS '34, retired from du Pont in 1974 after 37 years and lives at 1132 Talleyrand Rd., West Chester, PA where he, as a hobby sells Windsurfers and teaches people how to use them.

Daniel S. Polcyn, PhD '65, taught analytical chemistry in the last summer session, UW-Madison. He is regularly at UW-Oshkosh.

Nancy Gray Potts, BA '15, of La Grange, IL reports that Prof. (Continued on page 21, col. 1)



John Miller, PhD '71, Argonne National Laboratory.

This 'n' That . . .

(Continued from page 20)

Schuette was one of her teachers when she attended Wisconsin 1911-15 and later she and her husband met him at Oil Chemists conventions.

Dallas L. Rabenstein, PhD '68, writes from the Chem. Dept. of U of Alberta in Edmonton.

Wilkins Reeve, PhD '40, has just retired from the U of Maryland at College Park. His home is at 4708 Harvard Rd.

Reuben D. Rieke, PhD '66, recently advertised for a postdoc to work with him at U of Nebraska-Lincoln. Reuben had earlier been at U of North Carolina for about a decade.

While Prof. Evans was at Eastman Kodak in Rochester, NY last fall he saw his former student

Steven Rifkin, PhD '71, Jack Williams' student **Hans Osterhoudt**, PhD '64, and Wally Blaedel's student, **Thomas Kissel**, PhD '74.

Donald Roth, PhD '44, and **Marie Mercury Roth**, PhD '52, are busy at Medical College of Wisconsin (which has a new quarters in Milwaukee) and the UW-Washington County Campus with three children in high school and college. Their oldest has just joined duPont as an Information Systems specialist after math and business administration degrees from Lawrence and U of North Carolina. Marie attended a chem instrumentation program in summer '78 at Mount Holyoke, her undergrad school.

William F. Rothschild, BS '48, made a contribution to the Wisconsin Foundation, the funds to be available for use of the Chemistry Department. Bill's firm Rockwell International made a matching gift. Bill is an electrochemist at Rockwell where he has worked on development of plating processes used by the manufacture of printed wiring multilayer boards.

William J. Scanlon, BS '69, is a Congressional Fellow in the Office of Technology Assessment. After leaving Wisconsin he completed a PhD in physical biochem at UCLA, '77. In grad school he became interested in the interactions between science and government and entered the U of Michigan law school. His J.D. was awarded in '78.



David Perlman, BA '41, MS '43 (biochem PhD '45) has been appointed the Edward Kremers Professor of Pharmacy. This

named professorship honors Edward Kremers PhD '86 who became director of the pharmacy program after returning from his PhD under Otto Wallach at Göttingen in 1890 and remained in that position until his retirement in 1936. Kremers was an outstanding leader in plant chemistry and pharmaceutical education during his lifetime. At one time most deans of American pharmacy schools had been trained at Wisconsin, many of them under Kremers.

Dave has also received the Fisher Scientific Company Award for Research in Applied and Environmental Microbiology at ceremonies of the American Society for Microbiology meeting in Los Angeles last May. The award consists of a plaque and \$1000 check. Dave was recognized for contributions to applied and environmental microbiology throughout his career.

In 1978 Dr. Perlman received the Marvin J. Johnson Award from the Division of Microbial and Biochemical Technology of the American Chemical Society at its Miami Beach meeting. This award is named for Professor Marvin J. Johnson, now retired from the Biochemistry Department at the UW. Professor Perlman was a student of Professor Johnson early in his career. The Johnson Award is sponsored by The Upjohn Company.

Joachim Schantl, former PD with Zimmerman and now at the University of Innsbruck, is local chairman of the forthcoming IUPAC Symposium on Photochemistry.

Harry P. Schultz, BS '42, PhD '46, who remembers Dr. Schuette as advisor and teacher writes, "He demonstrated those qualities which in every faculty member has given stature to the university." Harry sent no. 2 of his UM-CHEM news dealing with chemistry at U of Miami.

Martin F. Semmelhack, BS '63, has joined the Princeton faculty as

Full Professor. He had formerly been at Cornell University.

Henry Shuey, PhD '49, phoned one night last June from Huntsville for some information on Prof. Bender's grad students in anticipation of the retirement party.

Robert Siegfried, PhD '53, and wife Judy were in England last December. Bob gave an invited paper at the Humphry Davy Bicentennial at the Royal Institution and another at Chelsea College after which they visited the lake country and other parts of England. Bob has also completed editing ten of Davy's lectures given while Davy was director of the Royal Institution. During the spring semester (1979) he had a sabbatical which was used to create resource materials for students in his history of science courses at Wisconsin.

Bruce Siggins, MS '78, is now associated with Fort Detrick in Frederick, Maryland where he is developing analytical methods suitable for estimating residues of military pesticides.

Leslie Sims, PhD '55, provided "sweetener" but no news.

Herbert J. Sipe, Jr., PhD '69, is assoc. prof. at Hampden-Sydney College in Virginia.

Thor L. Smith, PhD '48, received the Outstanding Innovation Award from IBM, the company where he is now located.

Alan L. Soli, PhD '78, is now with the Analytical Chemistry Department, of General Motors Research Laboratories in Warren, MI.

Leo H. Spinar, PhD '58, writes that his current job as Director of Planning, Program & Budget takes about 120% of his time. He is at South Dakota State in Brookings.

Monroe A. Sprague, BS '69, sent "sweetener" from 5202 Coringa Dr., Los Angeles. No news, but thanks.

Marshall Sprinkle, PhD '32, attended his 50th class reunion at Wake Forest and he and Jean look forward to their 50th at UW in three years. Jean (Miller), Home Ec '32 had courses under Dr. Schuette and considered him one of her favorite teachers.

Stuart Staley, PD '63-64 with Zimmerman, has left the University of Maryland for a Full Professorship at Nebraska.

Mark Steinmetz, PhD '77 with Zimmerman, has completed his (Continued on page 22, col. 1)

This 'n' That . . .

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postdoctoral fellowship and has joined the chemistry staff Marquette U.

Frank Strong, PhD '32, was interviewed and taped recently in connection with the ACS Division of History of Chem program to tape American chemists whose contributions to their field have been particularly noteworthy. John Wotiz, prof. of chem at Southern Illinois U is director of the interview program which is now fully underway. (John has been leading a summer study-travel program to sites in Europe which are important in the history of chemistry for a number of years.) Frank was interviewed three times by Robert Lindsay, prof. of food science, Aaron J. Ihde, and David Nelson, prof. of biochem, about his student days, his career as an organic chemist (McElvain PhD) in a biochemistry faculty, and his work on national committees. Frank was chairman of the Ag & Food Division in 1959, of the Wisconsin Section in 1944.

Glenn R. Svoboda, BS '52, vice-president for R&D at Freeman Chem. Corp, Port Washington, WI received the Milwaukee Section Award in 1978. The award is given to section members who contribute significantly to chemical industry and the profession in the area. Glenn was chairman of the Milwaukee Section in 1969.

Marjorie Huber Svoboda, BS '43, MS '47, chides the editor for inventing a new samatomedin (SM) —calling it SMS in BC 25. Hers is SMC. SMA is Swedish, SMB isn't really a samatomedin at all and SMS evidently hasn't been reached in the alphabetical order.

Wesley A. Tarwid, BS '50, continues his work as Research Associate in the Organic Group of American Can Company in Barrington, IL. He is coauthor of a paper on "Photocurable Epoxide Coatings for metal Containers" presented at an ACS symposium in Chicago on *Modern Container Coatings* and published in ACS Symposium Series '78. (The editor now has a twinge of remorse when he recalls assigning Wes the senior thesis problem of preparing salts of caproic acid and measuring their solubilities. Apologies too to the other seniors who had to work with foul-smelling fatty acids.)

Bryce Tate, PhD '50, sent sweetener but no news. Is he still with Pfizer?

William Taylor, BS '37, retired from the Central Research Dept. at du Pont in March '78. Sends regards to Mel.

Charles C. Templeton, PhD '48, sent sugar with a "Happy Halloween."

Howard G. Tennent, PhD '42, still has fun with chemistry after 36 years at Hercules where he is Senior Research Associate.

Richard W. Thies, PhD '67, is spending 1979-80 at the U of British Columbia on a NATO Senior Scientist Fellowship working with Prof. Edward Piers. He will return in fall of 1980 to Oregon State U.

Quentin E. Thompson, PhD '51, appreciated the latest issue.

Roland Trytten, PhD '41, continues at UW-Stevens Point. To quote, "With inflation as it is, who the hell can afford to retire?"

Hendrick Tuinstra, PhD '78 with Casey, is with Dow Chemical.

Charles W. Tullock, PhD '38, hopes BC will "continue to be published for many more years" since he enjoys the news of friends and old acquaintances.

Carl Turnquist, PhD '72, has been promoted from Senior Chemist to Research Project Supervisor at U.S. Catheter and Instrument Corp. at Concord, MA. He finds his analytical training with Prof. Taylor invaluable in interpreting work in polymer extrusion and textile processing. Carl has been involved in processing of Dacron arteries and heart catheters.

Marion Veazey, PhD '26, whose travels are now restricted for health reasons, enjoys monthly telephone visits with **Lloyd Withrow**, PhD '25, and another Oberlin classmate, and keeping track of eight grandchildren, all in different colleges. Marion sent in a correct address for **Fred W. Laird**, PhD '28, who went on to an MD. He is at Berry Point Road, Gabriola Island, British Columbia.

James Venerable, PhD '49, lives at 10425 Woodbine Lane, Huntley, IL according to Michael Curry.

Thomas G. Waddell, BS '66, was the recipient of the Chattanooga ACS section's Distinguished Service Award in December 1978. He was presented with a plaque and a collection of congratulatory letters. Tom is at U of Tennessee-Chattanooga.

Joseph Walker, PhD '50, is now Vice President of the Chemical Research Dept. of the Union Science and Technology Division, an arm of Union Oil. Joe has placed BC 25 inside his PhD thesis which was done under Dr. Schuette.

Carol Hermann Wallace, PhD '49, has sons in PhD programs at Purdue and Illinois.

Jerry Walsh, MS '75, PhD '77, has completed two years of postdoctoral work at U of North Carolina, Chapel Hill and has taken an appointment as Assistant Professor of Chemistry at Lafayette College in Pennsylvania.

Samuel Wang, PD with Willard since '76, has taken an appointment at the U of Chicago as Supervisor of Undergraduate Physical Chemistry Laboratories.

Mark P. Warchol, PhD '78 with Vaughan, is now at Exxon Production and Research Co. in Houston, TX.

William H. Webb, PhD '49, is enjoying retirement from Missouri School of Mines. He settled in Louisville, MS.

Arthur G. Weber, PhD '30, sends sugar from Wilmington.

Gary Weisman, PhD '76, and wife Donna, recently welcomed a baby boy. Gary is at U of New Hampshire.

Robert H. Wentorf, PhD '52, was recently elected to the National Academy of Engineering according to Professor Bender. Bob has been with General Electric for many years.

David M. Whisnant, PhD '71, gave a special seminar at the department in November 1978. His subject: "Integrated Lectures and Laboratories, A Piagetian Approach to General Chemistry." Dave teaches at Northland College in Ashland, WI.

Bennett R. Willeford, PhD '51, spent the past summer in Lincoln, NE as a visiting professor in the department of chemistry at U of Nebraska.

Clarence H. Winning, PhD '32, enjoys the *Badger Chemist* in Wenonah, NJ. No other news, but thanks for the sweetener.

Jerry Witt, BS '57, is a faculty member at Winona State College in Minnesota. His PhD is from Minnesota.

Warren D. Woessner, PhD '71, has finished his first year at the UW Law School. He had been with

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Miles Labs.

Wai-Kwok Wong, PhD '78 with Treichel, is a PD at UCLA with John Gladysz.

Dale E. Wurster, BS '74, now has a Chapel Hill, NC address—no news except that he now has a doctorate.

Y. Stephen Yamamoto, BS '65 who is assoc. prof. of chem. at Rochester Inst. of Technology, has been named coordinator of experimental learning.

Walter H. Zartman, PhD '33, took early retirement from du Pont and lives in Winter Haven, FL. He and his wife, the former Edna L. Nelson, BA 30, MA '31 enjoy summer hiking near Lake Tahoe.

Gary A. Zimmerman, PhD '65, is serving as Chairman of the ACS Committee on Committees. Gary is Dean of the School of Science and Engineering at U of Washington, Seattle, teaches clinical chem, and is mayor of Bellevue, a suburb of 73,000.

This 'n' That—2

Nila Bremer, MS '75 with Wilard, is now a criminalist in the drugs and narcotics section in the Iowa Criminalistics Laboratory where she works under Michael Rehberg, who took his degree at Wisconsin in Physiological Chemistry.

J. Calvin Giddings, PD '55-56, will receive the ACS Award in Analytical Chemistry in Houston next spring. He is being honored for his work on theory of chromatography, and the invention of field-flow fractionation. He is also author of the text, *Chemistry, Man and Environmental Change*, and of *Dynamics of Chromatography*. A 1954 PhD under Henry Eyring, he returned to the U of Utah after completing his postdoc with Prof. Hirschfelder at Wisconsin. For further details of his career, see CEN for 9-10-79, p. 71.

Larry A. Holmes, PhD '68, has become Vice President for Marketing with Southwest Chemical & Plastics Co. in Houston. Larry took his BS in chemical engineering at U of Texas and his doctorate in

Departmental Genealogy

Journal of Chemical Education published a scientific genealogy of members of the UW-Madison chemistry department in its issue of February 1979 (vol. 56, pp. 93-95). Compiled by Alan J. Rocke, Ph.D. '75 and Aaron J. Ihde, Ph.D. '41, the genealogy traces the heritage of all tenured members of the department (past and present) by carrying them back to the major professor who guided their dissertation work.

The lineage of 18 members of the present faculty traces back to Claude Louis Berthollet through Gay-Lussac and Liebig; 14 earlier faculty members are also a part of the Berthollet tree. Nine active faculty members trace back to A. F. Fourcroy through J. Vauquelin; 9 former members, including Farrington Daniels, S. M. McElvain, and J. W. Williams are also in this tree. The remaining 10 active faculty trace back to J. J. Berzelius through F. Wöhler; this tree also includes 10 former faculty.

It is of interest to note that all three of these trees represent a Lavoisier lineage. Although Lavoisier had no academic connections, his laboratory at the Paris Arsenal was the meeting place of French and foreign scientists and may be looked upon as the site of an ongoing colloquium. Both Berthollet and Fourcroy were closely associated with Lavoisier and collaborated with him in creating the nomenclature which became the basis for modern chemical terminology.

Although Berzelius never met Lavoisier, the Swede was profoundly influenced by Lavoisier's books and papers. He must be considered a largely self-taught chemist whose work extended the trend which Lavoisier started.

physical chemistry at UW. His entire career has dealt with plastics—much of it in technical service and marketing. Southwest Chemical Plastics is a division of Southwest Chemical Services, a wholly-owned subsidiary of Thiokol Corp.

Robert E. Ireland, PhD '54, has been named a member of the Advisory Board of *Journal of the ACS*.

George H. McGregor, BS '26, of Fort Madison, IA reports that he is now fully retired. He had done consulting on pulp and paper manufacture but now spends a lot of time on the golf course with Art Keenan.

Witta O. Priester, PhD '75, was on campus in September on a recruiting mission for Chevron. Following her PhD she postdoctored at Brandeis with Myron Rosenblum prior to taking her present position.

Kurt Rorig, PhD '47, continues to work as a research leader with the Searle Company near Chicago. He has just seen his three children through the U of Illinois.

Gilbert Stork, PhD '45, was announced as the 1980 recipient of the Arthur C. Cope Award at the Washington ACS meeting. The award will be conferred at the Houston meeting next spring. The award is for "development of new, basic synthetic methods and their application to the total synthesis of important natural products." Gilbert's work is described in more detail in CEN for 9-10-79, p. 63. The Cope Award honors the late **Arthur C. Cope**, PhD '32, longtime professor and departmental chairman at MIT and in 1961, President of the ACS. Both Cope and Stork took their doctorates under Professor S. M. McElvain.

Robert W. Rosenthal, PhD '49, enjoys his semi-retirement work as Organic Adjunct at Florida International U. He and his wife also work occasionally on cruise ships as Arts and Crafts specialists. Their older son (UW '74) now practices optometry in Tampa, while the younger is first year optometry at U of Houston.

John P. Williams, PD '76 with Treichel, has taken a position in the chemistry department at U of Cincinnati where he will teach general chemistry and develop a history of chemistry program. His position is funded from the estate of the late Ralph Oesper whose contributions to history of chemistry are extensive and led to his being the first recipient of the Dexter Award. John took his BS and MS at U of Wyoming where he worked under **John Howatson**, PhD '50 who worked under **E. M. Larsen**, BS '37 at Wisconsin. Williams is PhD '75 at Ohio State where he worked on organometallic chemistry under Daryle Busch.

Reader's Corner

Farrington Daniels: Chemist and Prophet of the Solar Age, A Biography, by Olive Bell Daniels (Madison, published privately by the author, 1978), 540 pp.

A labor of love lasting six years saw its conclusion in 1978 with publication by typescript duplication of several hundred copies of the above biography. Mrs. Daniels devoted most of her waking moments from the time of her husband's death in 1972 to the completion of Farrington's story. The task was an enormous one, partly because of the multifold activities of Farrington Daniels, partly because of the mass of source material which had to be examined. University Archives holds more than 200 storage boxes of his correspondence, publications, pocket diaries, and miscellaneous materials.

The first three chapters describe his youth in Minneapolis, his graduate work with T. W. Richards at Harvard, his first academic job at Worcester Poly, his marriage, and his work for the government during World War I. The rest of the book (14 chapters) deals with Dr. Daniels on the Wisconsin scene—teaching and textbooks, research on oxides of nitrogen, chemical kinetics, photosynthesis, nitrogen fixation, Met Lab, Argonne, thermoluminescence, the Daniels reactor, ACS presidency, and solar energy.

There are 7 appendices: A lists the 61 students who took their Ph.D. under Professor Daniels, while B gives data on their later careers; C is a listing of the 310 publications of Dr. Daniels and his associates; D lists his 7 patents; E shows the Daniels ancestry; F the Farrington ancestry, while G lists the descendants of Farrington and Olive Daniels.

The book carries 70 illustrations coming from all periods of his life and including scenes of his many activities and showing many persons who were associated with him at one time or another. The first shows him at age five with his mother, the last is an aerial view of the Daniels Chemistry Building on the campus.

The book is a fascinating account of a busy and productive life. Mrs. Daniels has been successful in portraying her husband as a humanist as well as a scientist, and as a friendly, concerned teacher with a social conscience.

Placements

A chemistry placement service report for 1978-79 records the following information:

The placement service office was used by 103 persons seeking placement. Seventy-four organizations conducted 1,319 interviews in the Chemistry Department. Fourteen of the companies did not interview PhD chemists.

Twenty-one postdoctoral associates used the interview service leading to 10 industrial acceptances. Two other postdoctoral associates accepted academic positions, 7 will continue their postdoctoral appointments and 2 were foreign nationals who returned to their home country. Industrial salaries average \$25,430.

Forty-eight PhD candidates (40 male, 8 female) used the service. Of these, 23 accepted industrial positions. Two others have taken academic positions and 8 will be doing postdoctoral work. The average salary for industrial positions was \$24,590.

Fourteen MS candidates (10 male, 4 female) accepted 7 industrial positions, 1 academic position, while 2 plan to continue graduate study in another area; 3 did not return the questionnaire. Industrial salaries averaged \$18,966.

Twenty BS candidates (10 male, 10 female) accepted 4 industrial positions. Two plan to attend graduate school and 14 did not return the questionnaire. Average salaries were \$16,720.

Badgers at Eastman Kodak

William T. Gruenbaum, PhD '75, sent on news about recent Badger chemists at Eastman Kodak as follows: "We have quite a group of Badger chemists here in Rochester. Fred Albrecht, now in industrial lab here at Kodak, was the first to arrive, in 1974, after two years as a post-doc with Howard Zimmerman. I came next, in

April of 1975, immediately after finishing my PhD with Zimmerman. Since then, four more Zimmerman PhD's have joined the Kodak Research Laboratories, including Nick Roberts ('76), Tim Cutler ('77), Tom Welter ('77), and Don Diehl ('78). Chi-wan Chen joined the same research group as Nick and I after completing her PhD with Howard Whitlock in '78. The newest Badger in Rochester, although she arrived in New York state earliest of all, is Sue Boettger, BS '74, who finished her PhD at Cornell U in February of this year, and is now a post-doc with Andrew Kende at the U of Rochester. Sue also worked for Zimmerman while in Madison, and received her PhD from Marty Semmelhack, BS '63. Semmelhack is now on the Princeton faculty.

"P.S. We were all intrigued by the "Badger Genealogy" you published in the Journal of Chemical Education earlier this year. Nice to know one's chemical 'roots'."

News from the Penn Chemists

No. 11 of *The Penn Chemists* carries a few items of information about Badger Chemists on the Penn faculty.

Fred Hazel, PhD '31, continues to give lectures to ACS groups on colloid and surface chemistry.

Ralph Connor, PhD '32, lives in Sun City, Arizona in retirement from Rohm and Haas. He was at one time a faculty member at Penn.

Alan MacDiarmid, PhD '53, continues his studies on covalent polymers having metallic or semiconducting properties. His greatest concentration is on the polyacetylene in collaboration with a professor at the Physics Department. Alan gave an invited lecture on this topic at the Gordon Research Conference in summer of 1978 and another paper at a conference in Yugoslavia.

As usual, the editor operates on thin ice. No issue has yet cost less than the previous one even though size has been cut. Send buoyancy to:

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