



Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 21 August 1974

University of Wisconsin--Madison. ; Dept. of Chemistry
Madison, Wisconsin: Dept. of Chemistry, University of Wisconsin,
August 1974

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BADGER CHEMIST

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

Newsletter 21

August 1974

TALLY RETIRES

Odell Alvestor Tallyferro, associated with the Freshman Lecture Demonstration Program for thirty years, is retiring at the end of the present academic year. His contribution to the success of the freshman chemistry program will be sorely missed. During his thirty years of service he has given the program a stability and continuity which it had lacked in earlier days when teaching assistants were arbitrarily assigned to lecture room duties.

Tally was born in Kewanee, Illinois in 1906. The family soon moved to Tennessee and his earliest recollections are of the Tennessee period. In 1913 the family returned to Kewanee where Tally insists that he entered foreign language school, the school being operated on a language that was foreign to his Tennessee dialect.

Upon graduation from high school in 1925 Tally worked in the suburbs of Chicago as a pinsetter and many other jobs. He entered the University of Wisconsin in 1926, expecting his football and track proficiency to contribute toward the expenses of his education but found a horrible abundance of former high school football stars equal and even superior to "The Kewanee Flash." As a result he worked at pinsetting, dishwashing, mopping, and similar enlightened tasks while continuing his education.

He received his B.S. in chemistry in 1933, doing his senior thesis on levulinic acid with Professor Schuette. Since the job market for chemists was still depressed he continued taking courses at the UW, concentrating in child psychology. He was now married to Hazel Shivers. Their daughter Joan was born in 1934. (She has become a talented dancer who now teaches dance in Cleveland where her husband, Thomas Hartshorne, Ph.D. (history '65, is a professor of history at Cleveland State U.) During the next years Tally carried out chemical analyses in the Agricultural Bacteriology Department until 1942. During the wartime period he worked in the Kankakee Ordnance Works in

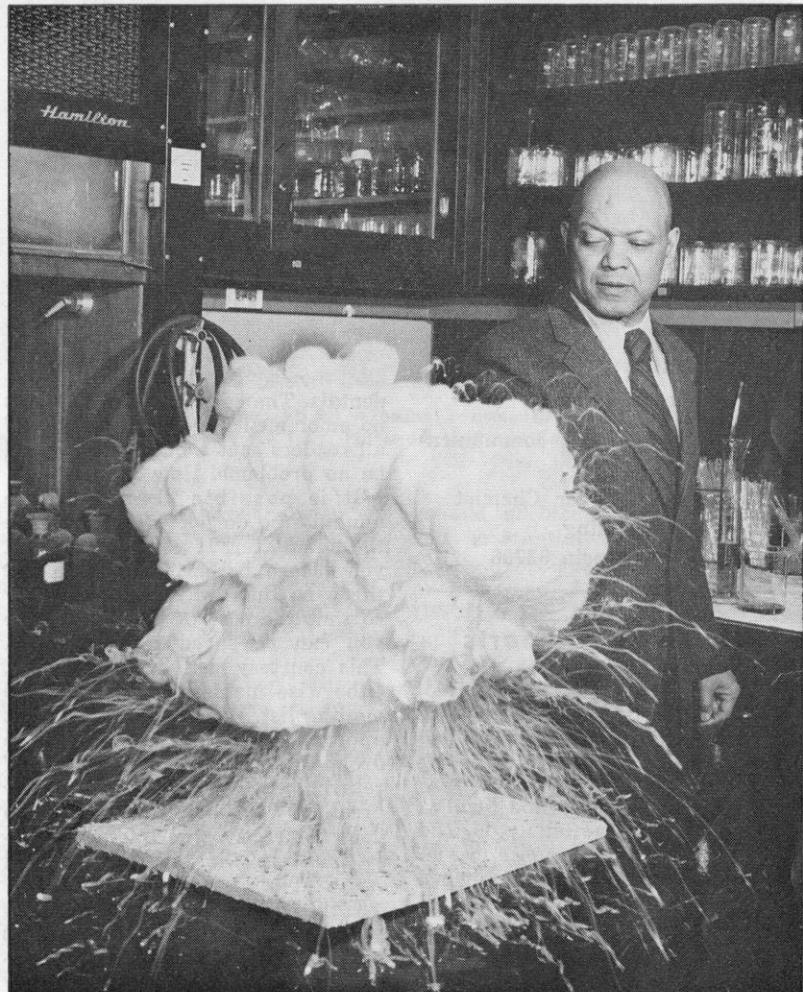
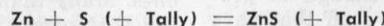


Photo by Gary Schultz, UW Photo Lab.



Illinois and after 1943 was a government chemist in the Badger Ordnance Works in Baraboo.

He became Demonstrator in the Chemistry Department in 1944. The concept of a permanent demonstrator originated in the mind of Professor James Henri Walton who, together with Professor Francis C. Krauskopf, had responsibility for the large L & S courses in introductory chemistry. Over the years the lecture demonstrations had been set up by teaching assistants, generally at the beginning of their TA career and without the courage to say "No." They worked closely with the professors to set up the necessary demonstrations beforehand. It was Professor Wal-

ton's concept that the work might be better accomplished by someone who was permanently assigned to the job and who would take pride in keeping the supplies and apparatus in order and who could be given a list of demonstration needs beforehand and would have the material available at the time of the lecture. Tally performed well beyond the line of duty not only for Professors Walton and Krauskopf, but for Holt, Sorum, Willard, Ihde, and Larsen on up to West, Dahl, Haskin, Fenske, Treichel, Gaines, Dance, Shakhshiri, Yu, Record, and O'Leary.

Tally had a great flair for the job. He understood chemistry and
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BADGER CHEMIST

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

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**The Editor Reports
Problems As Usual**

Since taking over in 1969 this editor has been signally lacking in success in (1) getting the Newsletter out on schedule, (2) extracting news from alumni and faculty, and (3) getting the bills paid. Did I not know from experience in seeing the *Badger Chemist* published since 1953 that this situation is normal, I would be inclined to close up the shop. Thus, in a spirit of perpetual optimism, here is Number 21, produced in confidence that some of you care enough to provide the long green stuff that pays the printer and the postman.

In truth, this issue emerges with the printer's bill for the last issue paid in full, a small improvement over last year when there was a significant holdover from the previous issue. The improvement is attributable to a generous response from faithful alumni; plus a \$100 check from Karl Paul Link who, although not a graduate of this department was moved to help out after seeing the last issue (for which Ye Ed is making him an Honorary Badger Chemist—welcome aboard, K.P.); plus a special assessment voted on themselves by the Chemistry Faculty to keep the poor editor from being impeached

for high crimes and misdemeanors (thanks faculty—Ed).

There is no nest egg to pay the costs of this issue. The usual contributions are not just welcome, they're essential to keep Ye Ed in the clear. In all seriousness, since the University can provide no funds for an alumni newsletter, we have been able to survive through your financial help and are grateful for it. However, it is a bit disconcerting to report that the total number of contributors has always been small, but they have been generous with checks ranging from \$5 to \$25. This has made survival possible, but always precarious. One might be happier if many more alums sent a buck more frequently.

For your information, the printing bill at today's inflated prices runs about thirty cents per copy. Postage is additional, as are incidentals. The editorial staff receives no emolument, and wishes none. If all readers sent a buck there would be no problems. How about it?

It is possible that there are alumni who do not wish to receive the newsletter. If you are one, will you please bother, while you are throwing this away, to let us know so that the cost of getting this to you can be saved in the future. This courtesy will be appreciated. Otherwise names remain on the mailing list. We also point out that approximately 200 names are dropped each year on account of returns with no forwarding address. If you know of anyone who does not receive the *Badger Chemist* but wants it, tell them to send in an up-to-date address.

Finally, the Editor appreciates your words of gratitude. It has made a sometimes onerous task rewarding and has generated many new friendships and renewed old ones. Many thanks, and keep sending that news!

AJI

OVERVIEW 1973-1974

As the University enters its 125th year the Madison campus has been a calm one compared to circumstances a few years ago. Student activism has largely disappeared and much more attention is being given to the books and to social life than had been the case as we moved into the 1970s.

Karleton Armstrong, one of the four suspects of the Sterling Hall bombing in 1970, was extradited from Canada and brought to trial in Madison last fall. He entered

a guilty plea and was sentenced to 23 years. Although some of his supporters sought to rally to his cause it was not possible to enlist substantial student support. The other three suspects in the bombing are still at large.

In April, 1973 the voters of Madison chose a former student activist, 28-year-old Paul Soglin, as mayor over conservative William Dyke, incumbent mayor for two terms. Soglin had been elected a city alderman during his Law School days and served for five years before running for the mayor post. Although he had once been arrested during a protest in his aldermanic days, Mayor Soglin has up to date been effective in defusing numerous issues and shows evidence of being an ambitious, well-meaning politician seeking to generate harmony and progress in the city. Of the 22 members of Madison's city council, seven are either former or present students.

University enrollment continues to hover in the vicinity of 35,000 students in Madison. A prospect of declining enrollments in chemistry a few years ago has not materialized and this year's chemistry enrollments actually gained in certain courses. There is evidence that students are returning to the hard sciences and professional fields after a period during which the social sciences and humanities appeared to be gaining in student popularity. Science majors today are showing a greater interest than heretofore in problems at the science-society interface such as conservation of natural resources, environmental problems, and consumer issues.

The Chemistry Department continues to meet its obligations on schedule despite the serious budgetary problems faced by all academic institutions nowadays. There has been only one addition to the faculty during the past two years despite the loss of Professors Bernstein and Haskin and the retirement of Professor Holt.

A quick count of departmental categories from the Spring, 1974 semester leads to the following summation:

| | |
|----------------------|----|
| A. Faculty | |
| Professors | 23 |
| Associate Professors | 9 |
| Assistant Professors | 11 |
| Emeritus Professors | 5 |
| Lecturers | 3 |

(Continued on page 3, col. 1)

Tally . . .

(Continued from page 1)

could discuss ideas for new demonstrations with the professors without long preliminary briefing. He was responsible for creation and improvement of numerous lecture demonstrations. At the same time, his great sense of humor enabled him to survive in a nest of demanding prima donnas. His liberal leanings were kept under cover surprisingly well until he learned that Professor Walton, while austere and reserved on the surface, was a man of liberal insights himself. From that point onward Tally frequently debated politics with conservative professors but without ever creating lasting antagonisms.

His deep interest in social problems caused him to become active in the NAACP, which organization he served as local chapter president for five years. He served as editor of the NAACP Newsletter for nine years, after which he was fired for "moderacy." Tally's reply was "I am not a moderate—I am more radical now than ever before (I voted for Herbert Hoover in 1932) but I think we have to ap-

Overview . . .

(Continued from page 2)

| | |
|-------------------------|-----|
| B. Graduate Students | |
| Teaching Assistants | 101 |
| Research Assistants | 105 |
| Fellows | 19 |
| C. Miscellaneous | |
| Specialists | 10 |
| Technical Assistants | 14 |
| Research Associates | 19 |
| Project Assistants | 4 |
| D. Post Doctoral | |
| Post Doctoral Fellows | 4 |
| Honorary Faculty | |
| Fellows | 3 |
| E. Support Staff | |
| Clerical and Business | |
| Staff | 28 |
| Glass Shop | 2 |
| Mechanicians | 7 |
| Electronics Technicians | 4 |
| Stock Room | 8 |
| Building Maintenance | 2 |

During the calendar year 1973 the Department graduated 44 Bachelor's, 18 Master's, and 32 Ph.D.'s.



Tally and Professor Fenske (left) examine a demonstration of edible chemistry at the departmental party for Tally. Professors Ihde and Kotch are in background at right.

proach the Revolution one step at a time, and if one suddenly comes upon two men—one black and the other white—locked in physical combat, before taking sides one should ask who started it? Is this too moderate?"

Tally also served on Mayor Nestingen's Commission on Juvenile Delinquency. In 1961-62 he carried on a losing battle with the Madison Redevelopment Authority which was in the process of purchasing houses east of Park Street for demolition and redevelopment. Tally also played a role in the desegregation of the UW Medical School.

A gala departmental party was held for Tally in the Alumni Room recently. A feature was a videotape shown on TV of Dr. Larsen's last Freshman lecture of the semester. The demonstration that day featured classics of the program with some unanticipated addenda, including Satan (in the form of OAT) entering from the rear in an Afro wig. Hazel Taliaferro, an honored guest, expressed concern at what had been going on in the Chemistry Department all these years.

We wish Tally many pleasant years in retirement. We know he will keep active. Above all, thanks a million from the Freshman Chemistry Mafia.

Tally's replacement will be William J. Weber, a 1972 graduate of the UW with a strong back-

ground in biology and chemistry and substantial work toward a Masters. Besides his academic work he has assisted in a lake study at UW-Oshkosh (summer 1968), botanical studies at the Kingwood Center Botanical Gardens in Mansfield, Ohio (summer 1971), insect hormone studies in the UW Entomology Department (spring 1972), and most recently in the UW Sanitary Engineering Department where he worked on bacteriological and chemical analysis for trace components of sewage.

Peterson Heads CEQ

Russell Peterson, Ph.D. '42, who was written up as governor of Delaware in *Badger Chemist* No. 16, has now moved into the Washington scene with his appointment last fall as the chairman of the President's Council on Environmental Quality. Prior to the appointment he had been chairman of the executive committee of Nelson Rockefeller's Commission on Critical Choices for America.

Russ received nationwide acclaim from environmentalists as governor of Delaware (1969-73) when he succeeded in gaining passage of a tough coastal zoning law which restricted commercial development of the Delaware shoreline. Prior to his entry into politics, Russ was actively engaged in chemical activities at Du Pont.

This 'n' That About Our Alumni

Anonymous. The Editor thanks the sender of the \$15 in cash which was contributed to the disaster relief fund of the *Badger Chemist* in June, 1973. The envelope contained no enclosure and was postmarked U.S. Postal Service WI 535. Whoever you are, many thanks!

Paul R. Austin, B.S. '27, of 2327 West 18th Street, Wilmington, Delaware sends no news.

Gilbert H. Ayres, Ph.D. '30, writes without news from 3307 Perry Lane, Austin, Texas 78731.

Bernard J. Babler, M.S. '36, writes from 1846 W. Chase Avenue, Chicago 60626.

Charles F. Bailey, Ph.D. '30, writes that he has been retired from the Upjohn Company for three years and he is enjoying the absence of daily work pressure. He and his wife, the former Mary E. Carney, B.S. 28, continue to live in their long time home at 2521 University Avenue, Kalamazoo, Michigan and have no plans for moving to a more exotic retirement center. Recent travels have taken them from Saskatchewan to Nova Scotia in Canada and from Maine to North Dakota to Florida in the States. Their children are in Michigan. Jane, a long time YWCA employee lives at home while Charles and his family live

at Utica, Michigan. Dr. Bailey was the late Dr. McElvain's third Ph.D., James R. Thayer and Nelson W. Bolyard having preceded him.

George C. Bailey, B.S. '09, Ph.D. Yale '16, writes from 260 West Jersey Street, Elizabeth, New Jersey that he is fairly well and is able to spend three months in Europe each year. He sends regards and best wishes to Henry Schutte.

Marcia Fisher Bailey, Ph.D. '65, has been granted a one year leave from her teaching duties in the physical science program at Central Michigan University in order to serve on the CMU Honors Program, where she will be developing a group program for work at the Science and Society Interface. Her husband **Bob**, Ph.D. '65, is associated with environmental research at Dow.

Alice Crew Baker, M.A. '21, writes, "thank you for the May copy," from 4610 Knox Road, College Park, Maryland.

Oliver W. Baldwin has been placed on the mailing list of *Badger Chemist* through the intercession of his friend **Ed Fitchett**, B.S. '24. He writes, "I hope someday to meet Sam Lenher to tell him how his father started me on my most successful career by sending me up to the U.S. Steel mines

in northern Minnesota where University of Wisconsin men 'ruled the roost!'" He writes further, "I suppose Danny Snow and Louie Kahlenberg are both long gone. I think Louie was demoted from head of Chemistry due to leaning toward the Germans during the war, just before the class of '23, when he started at the University. All I had under him were freshman chemistry lectures." **Editorial note:** You are right. Physicist Benjamin Snow, of Snowflake lecture fame, died in 1928; Kahlenberg was demoted in 1919, retired in 1940 and died in 1941.

Leonard Banaszak, B.S. '55, is Professor of Biochemistry at Washington University in St. Louis.

R. Byron Bird, Ph.D. '50, received the Honorary Doctor of Engineering degree from Washington University in May, 1973. Dr. Bird is Vilas Research Professor of Chemical Engineering at the University of Wisconsin at the present time.

Wilbur B. Bridgeman, Ph.D. '37, who has long been associated with the Worcester Polytechnic Institute in Worcester, Massachusetts, wrote to call attention to the Honorary Doctor of Science degree conferred on Professor J. W. Williams in June, 1973. Dr. Williams was a WPI alumnus of 1921.

Ray Brumblay, Ph.D. '38, writes from the Marathon County Center of the UW, "I've been neglecting the *Badger Chemist* lately. Hope this helps to make up some of it. Things in Wausau are great!"

Frederick L. Browne, Ph.D. '21, contributed disaster relief immediately after *Badger Chemist* No. 20 arrived, but sent no news about himself. He is retired from the Forest Products Laboratory, and lives at 3546 Lake Mendota Drive, Madison.

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Buechler, Ph.D. '27 of Madison; Donald W. MacCorquodale, Ph.D. '28 of Winnetka, Ill.; and Bryn H. Nissen, B.S. '22, M.S. '23 of St. Louis.

KARL PAUL LINK

The 1973 list of 50 year members included the name of Wisconsin Section member Karl Paul Link, Emeritus Professor of Biochemistry, whose membership was conferred on him at the September 20 meeting of the local section. In making the presentation Chairman Ihde awarded the pin and remarked, "It gives me further pleasure to present you with the fifty-year membership certificate containing appropriate sentiments and personally signed by President Nixon." A number of members attended a delightful dinner for Professor and Mrs. Link at the Simon House after the meeting.

Dr. Link remains active in many

ways. At the time of the "pinning" he was anticipating a few weeks back in the laboratory where he expected to crystallize some products reported as amorphous or syrupy by his last graduate students.

A son, Thomas Paul, is a 1971 Ph.D. in molecular biology at Stanford where his mentor was George Stark who had been Stanford Moore's first Ph.D. at Rockefeller University.

FIFTY-YEAR MEMBERS OF THE ACS

A quick glance at the list of fifty-year members of the ACS, published in C & E N, May 13, 1974 resulted in a pick-up of the names of A. Keith Brewer, Ph.D. '24, of Washington, D.C., William C. Child, Ph.D. '24, of Westfield, New Jersey, Alfred J. Stamm, Ph.D. '25, of Raleigh, North Carolina, Vanderveer Voorhees, Ph.D. '24, of Los Altos, California, and Earl L. Whitford, Ph.D. '24, of Naples, Florida.

The list also includes the name of Dr. William Earl Roseaveare of Greenville, North Carolina, who was instructor in physical chemistry from the mid '20s to the mid '30s. Dr. Roseaveare joined Du Pont upon leaving Wisconsin.

C & EN for June 11, 1973 carried the names of the following 50-year memberships: Roy H.

FIREARMS IDENTIFICATION

The late Professor J. Howard Mathews will be remembered for his many decades of work on scientific methods of criminal detection, giving particular attention to the characteristics of handguns. Some years after his retirement in 1952, the University of Wisconsin Press published a two-volume work dealing with the subject of firearms investigation and carrying scores of pictures of firearms together with their percussion cap and rifling characteristics. Dr. Mathews continued these studies almost up to the time of his death and had accumulated material for a third volume on the subject.

Through the devoted efforts of his daughter Jean and her husband, Charles C. Watson, Volume III is now in print, together with a reprinted edition of Volumes I

and II. The original printing of the first two volumes had been out of print for a number of years and the publication rights have been taken over by Charles C. Thomas, Publisher, of Springfield, Illinois, who has brought out second printings of Volumes I and II and the new Volume III.

The first two volumes sold particularly well considering the high price, being in great demand not only among law enforcement agencies but among gun collectors as well.

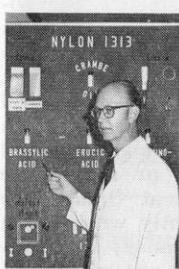
Recent Badger Chemists may not be aware that Joseph Howard Mathews, B.S. '03, M.S. '05, Ph.D. (Harvard) '08, was chairman of the Chemistry Department from 1919 until his retirement as Emeritus Professor in 1952. Charles C. Watson, B.S. '32, Ph.D. '38, is a



member of the Chemical Engineering faculty at Wisconsin.

This 'n' That . . .

(Continued from page 4)



Kenneth D. Carlson, Ph.D. '66, received the Bond Award of the American Oil Chemists' Society at the forty - seventh fall meeting in Chicago, September 17, 1973.

The gold medal Bond Award is given in recognition of scientific merit and effective delivery of technical papers before Society meetings. The award is for Dr. Carlson's presentation at the New Orleans spring meeting of his work on brassyllic acid from crambe oil. Crambe is a potential new crop for the American farmer which is being developed by the U.S.D.A. Research Service.

Albert S. "Nick" Carter, Ph.D. '27, of 5550 Bay View Drive, Fort Lauderdale, Florida 33308 writes of his many activities since retirement including taking care of over 200 orchids, teaching navigation in the power squadron and at least one weekly deep sea fishing jaunt. He inquires of the whereabouts of **Donald MacCorquodale, Ph.D. '28**, which is 785 Locust Road, Winnetka, Illinois 60093.

The John Willards recently spent an evening with **Ruby Wong Chiang, M.S. '49**, during a visit to their son Mark in St. Louis. Ruby is a research worker in the labo-

WISCONSIN SECTION ELECTS DAVID PERLMAN



Chairman on January 1, 1975.

After completing his bachelor's degree, Perlman turned to the Biochemistry Department, where he worked on fermentation studies and took the M.S. under William H. Peterson in 1943 and the Ph.D. under Marvin Johnson in 1945. After working briefly for Merck and Hoffman-LaRoche he became a microbial biochemist at the Squibb Institute for Medical Research in 1947. In 1967, the nostalgia for Wisconsin became irresistible (his father was Professor Selig Perlman of the UW Econ Department) and he accepted a professorship in the School of Pharmacy. A year later he was made Dean.

During his career Dean Perlman has been deeply involved in research on the production of antibiotics by microorganisms, the microbial transformation of or-

ganic compounds, and in tissue culture. In 1968 he married Kate Lenard who, after taking her doctorate in organic chemistry at Budapest, had done research on synthesis of compounds of pharmaceutical interest at Princeton. She continues her research as Associate Scientist in the UW School of Pharmacy.

Present Chairman of the Wisconsin Section is William Orme-Johnson of the Biochemistry Department who came to Wisconsin's Institute for Enzyme Research in 1965 after completing his studies at the University of Texas. Orme-Johnson succeeded Aaron J. Ihde, Ph.D. '41, as Chairman of the Section on January 1, 1974.

M. Thomas Record, Jr. of the Physical Chemistry Division continues for another year as Secretary-Treasurer. Record joined the Department in 1970, coming here from an NIH-PHS Postdoctoral Traineeship at University of California, San Diego. A Yale undergrad, Record took his Ph.D. at UC-San Diego in 1967.

Section councilors are Edwin M. Larsen, B.S. '37, and newly elected Paul Treichel, B.S. '58, both professors in the Department's inorganic division.

ratory of Barry Commoner, where she was doing esr measurements on natural products during the past four years since the death of her husband, Robert, Ph.D. '53. She

has recently accepted a position teaching high school chemistry. Her four children are: Amy, who took her freshman year at UW and

(Continued on page 10, col. 1)

NEWS OF THE FACULTY

ABOUT THE FACULTY

Paul Bender provides no news about his accomplishments since, as he says, "I try to maintain a low profile." It can be reported, however, that he continues to do a magnificent job of supervising the instrumental facilities of the Department. His talent for anticipating new innovations has been important in keeping us abreast of new approaches to problem solving through instrumental applications. The NMR and mass spectrograph facilities are particularly impressive. Paul's wife Margaret is associated with the Meteorology and Space Science Department where she is in charge of the facilities for radiocarbon dating.

Philip Certain of the Theoretical Chemistry Institute has been awarded an Alfred Sloan Foundation Fellowship for pursuit of his research program.

Dennis H. Evans has presented departmental colloquia at Southern Illinois University and Louisiana State University at New Orleans during the past year. Last November, he was the Koppers Lecturer at the University of Michigan.

John D. Ferry has been appointed chairman of a twelve-member search and screen committee to recommend a successor to mathematician Steven C. Kleene who retires after five years of service as Dean of the College of Letters and Science.

It is a pleasure to report that Harlan Goering (S. M. McElvain Professor) has shown good recovery from serious surgery which kept him hospitalized for a long period in 1972-73. He is spending some time this summer in Germany.

Joseph Hirschfelder (Homer Adkins Professor) has been appointed Adjunct Professor in the departments of Chemistry, Physics, and the Quantum Institute of the University of California-Santa Barbara. He will teach in Santa Barbara each winter quarter and spend the remainder of the year in Madison as Director of the Theoretical Chemistry Institute. He was recently awarded a Scroll in recognition of his contributions to Flame Theory by the Central States Section of the Combustion Institute.

Alex Kotch (Associate Chair-

man) has been elected vice-president of the Madison chapter of AAUP for the current academic year. He continues his role as Consultant Examiner for the North Central Association of Colleges and Secondary Schools and has made accreditation visits at the Colorado School of Mines, Ohio University and Northern Illinois University. Last summer he and his family spent a two-week vacation at a camp on Sand Lake near Grand Rapids, Minnesota. His son Axel is a sophomore at UW-Eau Claire, where he is majoring in French, while son Robert is a junior at Deerfield Academy, a private prep school at Deerfield, Massachusetts.

Bassam Z. Shakhashiri received more than a page of notice in C & E N for June 17, 1974 in connection with his ChemTIPS innovation in Freshman Chemistry. The ChemTIPS program is an experimental-computer assisted program for helping students to analyze their progress in the Freshman Chemistry course. Periodic surveys are made from time to time and the computer instructs the students regarding their success and what they need to be doing when achievement is not up to par. Further details can be found in the C & E N article, which appears on page 19. Dr. Shakhashiri has given over twenty invited lectures during the past year. His talks dealt with recent innovations and developments in the teaching of introductory college chemistry at Wisconsin. He was editor of "Self-Paced Instruction in Chemistry" published by

Chemical Education Publishing Company in 1973. The same publisher brought out his handbook for chemistry assistants, published in collaboration with other members of the Department. Dr. Shakhashiri has been extremely active in the development of a T.A. training program for incoming graduate students and has developed twenty-five audio-tutorial chemistry lessons for use by students in the Freshman Chemistry study room. He has also been involved in the development of twenty television programs used in connection with the freshman chemistry instructional program. His University committee activities include membership on the Faculty Senate and on the Chancellor's Committee on Undergraduate Education, where he is chairman of the subcommittee on improving the role of teaching assistants.

Barry M. Trost presented the plenary lecture at the 23rd National Organic Chemistry Symposium. The title, "Innovations in Organic Synthesis." He was also a selected participant in the first Japanese-U.S. seminar on natural product synthesis held in Tokyo in the summer of 1973 and presented a plenary lecture at Societe de Chimie de France at Orsay. The Barry Trosts recently welcomed a new son, Carey Daniel, born December 31, 1973.

John Walters is scheduled to discuss "Development of Spectrochemical Methods from Research on Spark Discharge" at the Gordon Research Conference on Analytical Chemistry to be held next August 12 at New Hampton School.

FROM PROFESSOR ZIMMERMAN'S LABORATORY

Howard Zimmerman has lectured widely around the country this year. He presented plenary lectures at the Hancock Symposium at Texas A & M University and the January Photochemical Symposium at the University of North Carolina, and one of the four main lectures at the University of Minnesota's Symposium on Orbital Symmetry in Chemical Reactions. He also gave colloquia at Cornell, Stanford, and Berkeley. His upcoming speaking plans include additional travel, to the CIC meeting in Canada in June and the

GECO meeting in France next September.

Fifty-six of Professor Zimmerman's former students are now in academic life. Gary Grunewald, Ph.D. '66, was recently promoted to associate professor in the University of Kansas Department of Medicinal Chemistry and Larry Singer, Ph.D. '60, has been promoted to full professor at UCLA. Other new appointments among Professor Zimmerman's former students include John Dodd, Ph.D. '70, assistant professor at Emory

(Continued on page 7, col. 1)



Professor Fenske presents Harold Schimming a Gift of Appreciation. Professor W. Blaedel is left background. Portrait in background is W. W. Daniells, first chairman of the Chemistry Department (1880-1907).



Professors John Willard, V. W. Meloche, and John Ferry at Schimming Party. Picture in background is Elbert D. Botts, Ph.D. '25, whose widow left a gift of \$2500 to the Department in his memory. The gift assisted in furnishing the Alumni Room.

Zimmerman . . .

(Continued from page 6)

University in Atlanta, Georgia; Gary Epling, Ph.D. '72, assistant professor, Fordham University in the Bronx; Tom Flechner, Ph.D. '70, assistant professor, Cleveland State University; Steven Hixson, Ph.D. '70, assistant professor, University of Massachusetts; Gil Jones, Ph.D. '70, assistant professor, Boston University; Richard Lura, B.S. '67 (Ph.D. Iowa State '71), assistant professor, Milligan College of Tennessee; Pat Mariano, Ph.D. '69, assistant professor, Texas A & M University; Ron McKelvey, Ph.D. '71, assistant professor, Institute for Paper Chemistry, Appleton, Wisconsin; Ed Panek, B.S. '63 (Ph.D. MIT '67), assistant professor, Tulane University in New Orleans, Louisiana; Reuben Rieke, Ph.D. '66, associate professor, University of North Carolina; Gary Samuelson, Ph.D. '69, assistant professor, Arizona State University; John Scheffer, Ph.D. '67, assistant professor, University of British Columbia, Can-

ada; Martin Semmelhack, B.S. '63 (Ph.D. Harvard '67), assistant professor, Cornell University in Ithaca, New York; and John Swenton, Ph.D. '66, associate professor, Ohio State University.

Another of Professor Zimmerman's former students, Robert Lewis, Ph.D. '65, is now with the Environmental Protection Agency's Technical Center, in Research Triangle Park, North Carolina.

FROM PROFESSOR WEST'S ALUMNI JOURNAL

Professor Robert West is serving this year as Chairman-Elect of the Division of Chemical Education of ACS. In October he participated in the International Symposium on Halocarbon Chemistry in Barcelona, after which he lectured in Germany and Czechoslovakia. He was also Jean Day Memorial Lecturer at Rutgers University last May.

Joyce Corey, Ph.D. '64, has been granted tenure at the University of Missouri at St. Louis, where she

HAROLD SCHIMMING HAD A PARTY

The Chemistry Department honored Harold A. Schimming for 25 years of distinguished service on October 18, 1973 with a party for staff and students in the Alumni Room.

Harold joined the civil service as a Lab Supply Clerk in 1948. On the approaching retirement of Mr. L. P. Haskins in 1951, Harold held top rank on the civil service examination for the position and was appointed Mr. Haskin's replacement by Professor Mathews. As a close associate of Chairmen Mathews and Daniels, Harold learned his job well and has been a pillar of strength as Administrative Assistant of the Department. As the position became more diverse and demanding over the years, Harold rose to the challenge. He has seen doubling of faculty size, mushrooming of the support services, growth of student body, and faced the intricate problems of constructing a new building and moving a large department.

In appreciation of his service to the Department, Chairman Fenske presented Harold with a gift certificate and a plaque carrying several yards of tape, a scissors, and the brass inscription,

To Harold A. Schimming

In Appreciation of Many Yards Sliced and Shredded

For 25 Years

Department of Chemistry

October 18, 1973

is an associate professor. Cyrelle Gerson, M.S. '71, has returned to Madison from Maryland to work on a degree in pharmacy. William H. Glaze, Ph.D. '61, is now serving North Texas State University as Professor of Chemistry, Dean of Graduate Studies, and Director of the Environmental Research Institute. Last fall he received the Alumni Association Citation of Merit Award from Southwestern, his undergraduate college. David Law, Ph.D. '67, has left New York City for Arlington, Texas, where he is now a specialist in medical products for Arbrook Inc., a subsidiary of Johnson and Johnson. Herbert Sipe, Ph.D. '69, is now Departmental Chairman at Hampden-Sydney College in Virginia, where he and his undergraduate students have put together a professional-quality esr spectrometer from gifts and spare parts. Antony Wright, Ph.D. '73, is the seventh of Professor West's former students to settle in Midland, Michigan. He is doing research on silicone monomers with Dow Corning there.

PRIESTLEY HONORED BY MARM

Badger Chemists figured prominently in the Bicentennial Celebration of Priestley's Discovery of Oxygen which was sponsored in late April by the Middle Atlantic Regional Meeting (MARM) of the ACS in Wilkes-Barre, Pennsylvania. Program chairman for the meeting was Bennett Willeford, Ph.D. '51, who has been on the faculty of Bucknell University since completing his graduate studies with the late Professor N. F. Hall.

Thursday, April 25, was focused on Joseph Priestley who first prepared oxygen on 1 August, 1774 by exposing mercuric oxide to sunlight focused by a 12-inch lens. The morning symposium devoted to Priestley's career included invited papers by Erwin N. Hiebert, Ph.D. '53, Robert E. Schofield, and Aaron Ihde, Ph.D. '41. Hiebert, formerly a member of the UW History of Science Department and now at Harvard, dealt with the relationship between Priestley's religious thought and its integration with his science. Schofield of Case Western Reserve dealt with Priestley's scientific activities in his paper entitled "Joseph Priestley and the Physicalist Tradition in British Chemistry." Aaron Ihde of Wisconsin, in his paper, "Priestley and Lavoisier," examined the points of conflict between these two scientists regarding the significance of oxygen. The papers are to be published in a bicentennial volume.

Following lunch the registrants took an eighty-mile bus trip to Northumberland, Pennsylvania to visit Priestley's home and grave-site. He lived in Northumberland during the last ten years of his

life, after leaving England on account of religious and political intolerance. The home which he built in Northumberland on the bank of the Susquehanna River, a dignified frame house built according to his plans, underwent many vicissitudes after Joseph's death in 1804. Following several abortive attempts to preserve the house as a historic site, the property was placed in the hands of the Pennsylvania Historical and Museum Commission in 1960. Restoration has been proceeding since that time and the

site is now open to visitors on a daily basis. It is hoped that the living quarters can eventually be furnished with period furniture and the laboratory equipped with artifacts of the sort used by Priestley. At the time of the ACS visit there were books and pieces of apparatus loaned by Penn State, Dickinson College, and the Smithsonian.

Final feature of the afternoon visit to the homesite was the conferring of the Priestley Medal for 1974 on Professor Paul J. Flory of Stanford University in recognition

(Continued on page 9, col. 1)

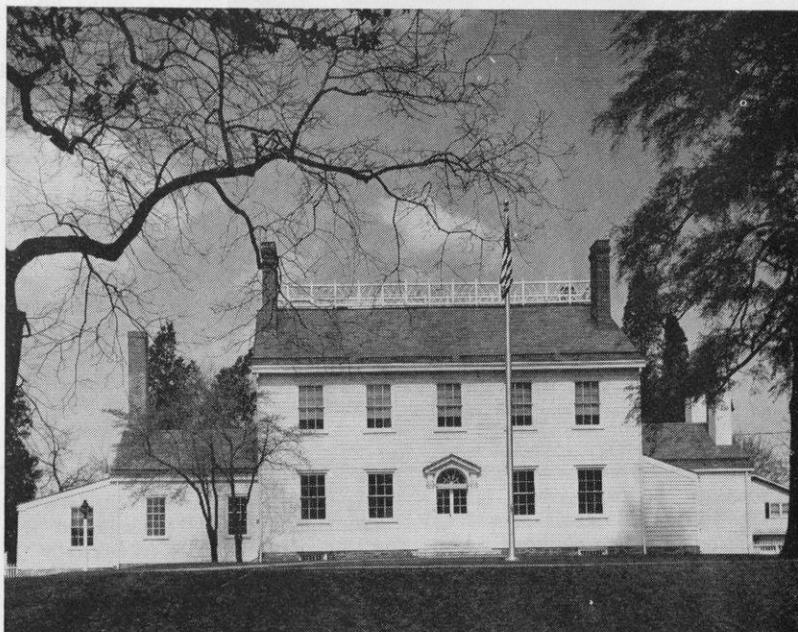


Photo by Pennsylvania Historical and Museum Commission, Harrisburg, Pa.

Home of Joseph Priestley, Northumberland, Pennsylvania

LECTURERS

Three divisions were assisted in teaching obligations during the past year by Lecturers appointed on a temporary basis.

Joseph John Gajewski, Ph.D. '66, associate professor at Indiana U, was on campus in the fall semester of 1973 in association with the elementary organic program. After completing his doctorate with Professor Berson he spent a year at Columbia as a post-doc with Professor Brislow before joining the staff at Indiana.

Daniel S. Polcyn, Ph.D. '65, has helped out the analytical division as Lecturer since fall, 1972 and

will continue during the next academic year. His undergraduate work was in physics at Wisconsin State U-Oshkosh ('55). After industrial and hospital work he turned to analytical chemistry, taking his doctorate with Professor Shain. He was an electrochemist with Gould, Inc. of St. Paul and a research associate in neurology at U of Minnesota before returning to Wisconsin.

Raymond M. Roder, Ph.D. '73, served the general chemistry division during 1973-74 after completing his doctorate with Professor Dahl. He has just resigned the position in order to start work on a law degree at Wisconsin.

Wesley D. Smith will replace Dr. Roder as Lecturer in general chemistry in the year of 1974-75. A native of Utah, Smith took his Ph.D. at Brigham Young in 1973 and has just completed a post-doc with Jack Simons at U of Utah.

NEWS OF THE EMERITI

An interesting coincidence was noted in preparing this column: all of the present living emeritus professors are Badger Chemists as a result of having received their Ph.D.'s at the UW. Holt received his under Louis Kahlenberg in (Continued on page 9, col. 1)

Priestley . . .

(Continued from page 8)

of his many contributions to the chemistry of high polymers. Although the Priestley Medal has been conferred since 1923, it had never before been presented at the Priestley homesite. Badger Chemists who have received the prestigious Priestley Medal are the late Professor **Farrington Daniels** in 1957, and **Ralph Connor**, Ph.D. '32, of Rohm and Haas in 1967.

Nearby Susquehanna University was host to a banquet that evening. Immediately after President Gustave Weber of Susquehanna welcomed the assembled guests the banquet hall was disrupted by five streakers. President Weber rose to the occasion by insisting, "Get those Bucknell students out of here," while President Bernard Friedman, representing the ACS, alleged that they could not be chemistry students since they would be home studying.

A highlight of the evening was the conferring of the Dal Nogare Award for distinctive work in chromatography on Jack Kirkland of du Pont. Stephen **Dal Nogare**,

Ph.D. '48, completed his doctorate with Professor Schuette, carrying out studies on the chromatographic separation of methyl esters of higher fatty acids. He then joined the du Pont Plastics Department where he was active for 19 years in the development of chromatography as an analytical tool. He was author of a book on the subject and was widely sought as a lecturer. Following his untimely death in 1968 the New Jersey section created the Dal Nogare Award in his honor.

Distinguished guests at the Bicentennial were Dr. Priestley Tolmin III, geochemist with the Geological Survey of the U.S. Department of the Interior, with his wife and daughter. Representing The Royal Society, The Chemical Society, and The Royal Institute of Chemistry was Dr. C. C. Addison of the University of Nottingham.

Most American chemists are aware that the Priestley homesite figured prominently in the founding of the American Chemical Society almost a century ago. In the April, 1874 number of *American*

Chemist Henry Carrington Bolton suggested that the centennial of the discovery of oxygen should be celebrated in America in an appropriate manner. Professor Rachel L. Bodley of the Women's Medical College of Pennsylvania suggested that the event be commemorated in Northumberland. Bolton proceeded to gather support and on July 31 seventy-seven American chemists gathered in the lecture room of the Northumberland public school for an appropriate program chaired by Professor C. F. Chandler of Columbia. Most of those in attendance were from New York, Pennsylvania and other eastern states but the few stragglers from the hinterlands included Professor W. W. Daniells of the University of Wisconsin. Following a ceremony at Priestley's grave on August 1, Persifor Frazier, Jr. of the University of Pennsylvania proposed that an American Chemical Society be formed. The suggestion had much opposition at the time but through the persevering efforts of Dr. Chandler a group met at the Columbia School of Mines in April, 1876 to organize the ACS.

Emeriti . . .

(Continued from page 8)

1930; Meloche took his under Victor Lenher in 1925; Schuette was a student of Richard Fischer and served as an instructor for several years before taking his degree in 1916; Sorum received his doctorate in 1927 under F. C. Krauskopf; and Williams took his degree in 1925, being one of Farrington Daniels first Ph.D.'s.

M. L. Holt is enjoying life to the fullest and tells us that he is happy that he decided to retire early. Last winter he and Gretchen flew from Chicago to Paris on Air France where they spent a half-day of sightseeing before taking a further flight to Geneva and then went by bus to Avoriaz, France, for a week of skiing. Avoriaz is near the Swiss border and Les reports that the skiing is very good. A year ago they flew to Spain where they vacationed at Costa del Sol with a side trip to Tangiers and Morocco. Later they joined an alumni group for a flight to Greece where they spent five days in Athens and vicinity and five days on a cruise ship visiting some of the Aegean islands. Another trip took them to Germany, where they

landed at Munich and drove a car to Ruppolding for a ten-day stay. During this period they also visited Vienna and Salzburg.

Les recently turned over a part of his library, including Kahlenberg reprints, to the department's Historical Collection.

We regret to add a pre-publication postscript to the above reporting that the Holts were recently victims in an auto accident which left Mrs. Holt seriously injured. Les reports that she is showing favorable recovery.

V. W. Meloche and his wife Patty are now at home at 16 Heritage Circle, Apt. 5. They recently sold their home and are now comfortably settled in their apartment. They generally spend part of the winter in warmer climes while visiting their cabin at Trout Lake in the summer. Mel continues to enjoy the sports program of the University, being particularly fond of the hockey team.

H. A. Schuette continues to maintain his interest in university affairs from his quarters at the Attic Angel Nursing Home (602 N. Segoe Road). He is particularly interested in the activities of Badger Chemists and continues to call attention to news items about

alumni. He continues to wonder why the present editor can't get the Newsletter out on a more prompt schedule!

C. Harvey Sorum and Emma Lou also claim to be enjoying retirement. Harvey is teaching tennis in Shorewood this summer and tending a large garden. Last January they spent a month in California where they visited friends and took a boat trip along the inner waterway of Baja California and enjoyed swimming and snorkeling. In spring they visited son Paul in North Carolina at the time of the NCAA basketball finals in Greensborough. Paul is on the history faculty at Chapel Hill. They were joined by daughter Jean and her family from Topeka, Kansas where Jean's husband is a practicing neurologist.

John W. Williams received an Honorary Doctor of Science degree from Worcester Polytechnic Institute in June, 1973. Dr. Williams was a faculty member briefly at Worcester Polytechnic before beginning his faculty career at the UW, where he was active in the development of the colloid chemistry program and operated the first Svedberg Ultracentrifuge in the United States.

This 'n' That . . .

(Continued from page 5)

then transferred to Washington University so as to be with her mother following her father's death. Amy recently took her Bachelor's degree in mathematics and is hoping to receive her Master's soon. Beverly just completed her sophomore year in the architecture program at Cornell University at Ithaca. Clement just completed his third year in high school where he is interested in violin and is a member of the St. Louis Youth Symphony. David is in fifth grade.

William C. Child, Jr., Ph.D. '55, has been in the Department of Chemistry at Carleton College since 1956. He presently serves as chairman after being on leave last year at the University of California, Santa Barbara, where he studied quantum mechanics and worked on a computer simulation of a kinetics experiment for physical chemistry.

Kenneth E. Collins, Ph.D. '62, just sent a card asking for an address change to 175 Mill Road, Littleton, Massachusetts but without news regarding his new circumstances.

Ernest D. Coon, Ph.D. '32, sends thanks for the latest edition of *Badger Chemist*. Dr. Coon is Professor Emeritus since 1960 of the Chemistry Department at University of North Dakota in Grand Forks.

Milford A. Cowley, Ph.D. '33, retired from his professorship at UW-La Crosse on July 1, 1974. He recently wrote Tally, his grad school contemporary, "When I left Madison in '33, I had hopes that someday I might teach at the University of Wisconsin. I finally made it—but first I spent 39 years at La Crosse State Teachers College, Wis. State U-La Crosse, and finally two years at University of Wisconsin (La Crosse)." Sounds like a case of the mountain going to Mohomet.

Harold J. Dewane sent no news but his contribution came from 3704 Stewart Drive, Chevy Chase, Maryland.

Glen Dirreen, Ph.D. '72, is director of General Chemistry Laboratories at the UW-Madison. This position was created a short time ago in order to provide more effective responsibility for the smooth operation of the freshman laboratories.

John O. Edwards, Ph.D. '51, is one of the six recipients of the

In Memoriam

Harold E. Christensen, longtime stock clerk in the Chemistry Department and more recently a member of the Business Office of the Department died February 24, 1974 of a heart attack. He had been associated with the Chemistry Department for the past thirty years.

Raymond D. Cooke, M.S. '14, of Redwood City, California passed away on December 31, 1972, according to a letter from his son Charles.

Philip R. Fehlandt, Ph.D. '34, died on November 6, 1973 in Tacoma, Washington. He was retired from the faculty of College of Puget Sound.

Shortly before publication, word was received of the death of **Vernon B. Haarstad, Ph.D.** '62, of Alberta, Canada. No further details are known at this time.

Evan Philip Helfaer, B.S. '20, died on February 2, 1974. He was a Milwaukee philanthropist who gave the University of Wisconsin more than one million dollars during his lifetime. He received the Wisconsin Alumni Association Distinguished Service Award in 1972.



Henry Baldwin Merrill, B.S. '16, **Ph.D.** '21, died at Long Beach, California on April 4, 1973 at age 78. A native of St. Paul, Dr. Merrill attended the UW where he won letters in track and cross-country and was a member of Alpha Chi Sigma. He continued graduate

work at the University of California at Los Angeles, receiving his Ph.D. in 1921.

studies after service in World War I and married the former Doris Lucas, a fellow student from Milwaukee, in 1923. He taught chemistry briefly at Carroll College before becoming chemist for the A. F. Gallun & Sons Tannery and published extensively in the field of leather chemistry. Between 1938 and 1940 he served as president of the American Leather Chemists' Association and was editor of its journal for three years from 1956. He received the Alsop Award of the Leather Chemists' Association in 1953 and was actively involved in ACS affairs in Milwaukee. During World War II years he went on active duty in the U.S. Chemical Warfare Service, obtaining the rank of colonel before release at the end of the war. In 1946 he became director of research for the B. D. Eisendrath Leather Company of Racine from which he retired in 1959. He is survived by his wife, two sons and a daughter, the latter being Phyllis Dietz (B.S. in chemistry at the UW in 1948).

Leo V. Rogers died March 1, 1974 of a heart attack. Leo joined the staff of the departmental instrument shop as Mechanician II in 1963, being promoted to Instrument Maker in May, 1968. His work was primarily associated with the requirements of Professor R. B. Bernstein's research program; more recently with Professor John Walter's research.

Edward E. Smissman, Ph.D. '52, died on July 14, 1974. He had been associated with the University of Kansas Pharmacy School at Lawrence. The funeral was attended by approximately 80 of his former students.

1974 Manufacturing Chemists Teacher Awards. The awards are intended to recognize and reward teachers who have been outstanding in the teaching of students. At the same time they "enhance public recognition of the importance of good teaching in the fields of chemistry and chemical engineering." John is at Brown University.

David C. England, Ph.D. '43, sent his contribution without news from 161 Shipley Road, Wilmington, Delaware 19803.

William J. Evans, B.S. '69, received his Ph.D. at UCLA in 1973 under Professor M. Frederick Hawthorne. He is presently at Cornell

University as a postdoctoral student with Dr. E. L. Muetterties.

Richard A. Fass, Ph.D. '69, is on the chemistry faculty of Pomona College and also serves as Associate Dean of Students. He presented two papers at the Dallas meeting of the ACS, one of them dealing with the underprepared student, the other with moderation of hot deuterium atoms by inert gases.

Martin Feifer, B.S. '50, is located in Houston, Texas but didn't report his current activities.

Ed M. Fitchett, B.S. '24, recently contributed several specimens of copper flasks of 1916 vintage.

(Continued on page 11, col. 3)

MOORE RECEIVES HONORARY DEGREE

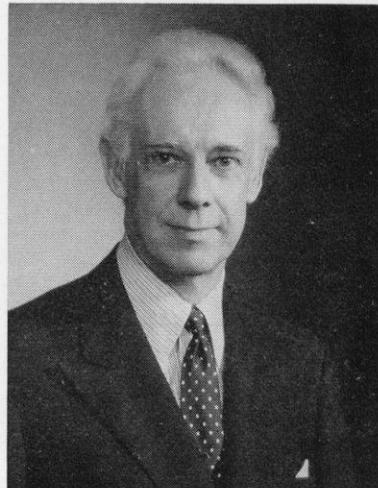
The University of Wisconsin honored Stanford Moore, Ph.D. '38, with an honorary Doctor of Science degree at the May 1974 commencement. Dr. Moore was a Nobel Laureate in chemistry in 1972, his receipt of the prize having been featured in the last Badger Chemist. A Vanderbilt undergraduate, Moore was a WARF fellow at Wisconsin where the late Professor Homer Adkins was his major professor although his research was done on benzimidazole derivatives of carbohydrates under the direction of Professor of Biochemistry Karl Paul Link.

Dr. Moore has been at the Rockefeller Institute of Medical Research (now Rockefeller University) since 1939. His Nobel Prize was awarded in connection with his work on the amino acid sequence of the enzyme ribonuclease from beef pancreas. In awarding the degree, the following citation was read:

Presentation of Candidate:
STANFORD MOORE. Dr. Moore is Professor of Biochemistry at the Rockefeller University, and has been there since 1939, shortly after he completed his doctorate in chemistry at the University of Wisconsin. His outstanding research work in biochemistry led him to the coveted Nobel Prize in Chemistry in 1972. Dr. Moore has done important work in the chemistry of proteins, an area in which he has published extensively. During the war years from 1942 to 1945 he worked in the Office of Scientific Research and Development in Washington, and has often served since then on governmental committees and as a consultant to various agencies. He was Franqui Professor at the University of Brussels in 1950, and was visiting investigator at Cambridge University in 1951. He was chairman of the Organizing Committee for the Sixth International Congress of Biochemistry, held in New York in 1964, and of the Federation of American Societies for Experimental Biology in 1971. He has received many honors, and holds membership in the National Academy of Sciences. In recognition of a productive career which has brought credit and distinction to his alma mater as well as to him-

self, Dr. Moore is presented for the degree of Doctor of Science.

Conferral: For your distinguished achievements in science, which culminated in a Nobel



STANFORD MOORE

Laureate, for your devotion to the advancement of your profession, and for your valuable services to the government of the United States, I welcome you back to your alma mater, and gladly confer upon you the degree of Doctor of Science.

* * * * *

The honorary degree list at the May commencement was an unusually meritorious one. Besides Dr. Moore honorary doctorates went to: Marshall Clagett, distinguished historian of science who was a member of the UW faculty from 1947 until he joined the Institute for Advanced Study at Princeton in 1964; Ada Elizabeth Deer, a 1957 graduate of the university who has been a leader in the successful effort to restore the Menominee Indians to tribal status; Arthur C. Nielsen, Sr., UW tennis captain in 1916 whose family provided the funds for the \$2,000,000 Nielsen Tennis Stadium on Marsh Road at the west end of the campus; Catherine B. Cleary who is now President of the First Wisconsin Trust Company in Milwaukee; and H. A. Oluwasanmi, Vice Chancellor of the University of Ife in Nigeria and a leader in the application of agricultural science to the economic problems of Central Africa.

This 'n' That . . .

(Continued from page 10)

These flasks are thin-walled Jena glassware which were superseded during World War I with the Pyrex variety.

George Fleck, Ph.D. '51, is co-author with Eugene Rochow and Thomas R. Blackburn of "Molecules that Matter" recently published by Holt, Rinehart and Winston. The book is an attempt to portray the fundamental principles of chemistry in relation to the interaction of man and his environment. He teaches at Smith College.

Karl Folkers, Ph.D. '31, Sc.D. '69, was awarded the Honorary Doctor of Science degree by the University of Illinois at the June, 1973 commencement. Dr. Folkers took his B.S. at Illinois in '28. He is now a member of the Institute of Bio-medical Research at the University of Texas at Austin. As is well known to most Badger Chemists, Dr. Folkers had a long industrial career at Merck before returning to the academic field. He has been active in the isolation, structure proof, and synthesis of compounds of biological importance, including Vitamin B₁₂, coenzyme Q, antibiotics, and hormones. The American Chemical Society elected him to its presidency in 1962. In 1972 Dr. Folkers received the first Robert A. Welch Award in chemistry conferred by the Robert A. Welch Foundation at a conference on theoretical chemistry which was held in Houston, Texas, November, 1972. His award address was entitled "Chemistry in Human Health and Disease."

Gunther S. Fonken, Ph.D. '47, is co-author with Roy A. Johnson, of *Chemical Oxidations in Micro-organisms*, published in 1972 by Dekker.

Albert J. Fry, Ph.D. '64, is associate professor at Wesleyan University, Middletown, Connecticut. He is carrying out research in organic electrochemistry and published a book, *Synthetic Organic Electrochemistry*, last year.

William H. Glaze, Ph.D. '61, was honored by Southwestern University, Georgetown, Texas at the 1973 homecoming, where he received the Alumni Association Citation of Merit award.

D. Grant, B.A. '71, writes, "Pass the word on to Dr. Yu that all his (Continued on page 12, col. 2)

ACS AWARDS....

Two members of the chemistry faculty received leading awards at the American Chemical Society meeting in Los Angeles in April.

Professor Lawrence F. Dahl received the ACS award in Inorganic Chemistry which is sponsored by Texas Instruments, Inc. He has been a member of the faculty since 1957, where he has been involved in the Freshman Chemistry Program and has pursued research in the synthesis, structures and bonding of new types of inorganic compounds, especially those of carbon-metal and metal-metal combinations. He has pioneered in work on the structures of metal

carbonyls and organometallics, giving principal attention to x-ray diffraction procedures.

Professor John D. Ferry received the ACS Award in Polymer Chemistry sponsored by the Witco Chemical Foundation. This will be his third ACS national award, having previously received the Award for Biological Chemistry in 1946 and for Colloid Chemistry in 1960. Dr. Ferry joined the faculty at Wisconsin in 1945. He has been associated with the Physical Chemistry Division and is widely known for his research in rheology, the science of large molecules.

RESIGNATIONS

We regret to report the resignations of two of our most distinguished faculty members, Richard Bernstein, who is now at University of Texas, and Larry Haskin, who goes to the NASA Space Center in Houston.

Richard B. Bernstein joined the Department as Professor in 1963, leaving a similar position at the University of Michigan. He was associated with the physical division and the Theoretical Chemistry Institute. A native of New York City, he received all of his degrees from Columbia, the Ph.D. under T. I. Taylor in 1948. He taught at Illinois Institute of Technology from 1948-53 and spent the next decade at Michigan. In 1967 he was named William Willard Daniells Professor of Chemistry, the name professorship set up in honor of the first chairman of the Chemistry Department (1880-1907). Dr. Bernstein was also honored while at Wisconsin by election to the National Academy of Sciences in 1969. His field of research is molecular beam scattering. His decision to join the University of Texas was influenced in part by the desire to go to a warmer climate on account of his wife's health. The move was made a year ago.

Larry A. Haskin, our expert on the chemistry of moon rocks, came to the Department in 1960 from Georgia Tech. Born in Olathe, Kansas, he took his B.A. at Baker College in 1955, his Ph.D. at Kansas in 1960. On coming to Wisconsin he worked with the freshman

graphic science. His three weeks in Japan in 1967 are looked back as a high point in his travels. In his letter he reminisced about rooming with Mark Ingraham and Gene Woodburn, now retired from the University Faculty, and canoeing with them and Farrington Daniels.

Louis F. Heckelsbert, Ph.D. '51, of 2012 South Madison Boulevard, Bartlesville, Oklahoma writes, "Keep up the good work" with no news about himself.

W. Floyd Holbrook, B.S. '20, sent his contribution from 708 Capital Manor, Salem, Oregon 93704.

Ray C. Houtz, Ph.D. '32, has left Minnesota where he was connected with academic work for many years and now lives at 866 N.E. Beacon Drive, Port Charlotte, Florida 33952.

Walter J. Ingram, B.A. '21, of 504 N. Wilson Avenue, Rice Lake, Wisconsin 54868 appreciated the full account of Farrington Daniels' career and hopes that his work on solar energy will be continued by others. He says, "I well remember Professor Daniels' arrival at the University. It was my senior year and I was studying physical chemistry. Among his assignments was that of supervising the lab work for that course. His office was next to the P-chem lab. Professor Mathews gave the lectures in the course."

Robert E. Ireland, Ph.D. '54, was a discussant at the Robert A. Welsh Foundation Conference on Chemical Research in November, 1973. Subject of the conference was "Organic-Inorganic Reagents in Synthetic Chemistry." Bob post-doc'd at UCLA before becoming a member of the faculty of the University of Michigan. Since 1965 he has been Professor of Organic Chemistry at Cal Tech.

(Continued on page 13, col. 1)

This 'n' That . . .

(Continued from page 11)

B.S. students of '71 (Gall, Grant, Bowman, Zoellner, Vander Heyden, Wagner, La Buwi, and Lemanske) are doing well in medical school here except the M.D.'s look at us with questioning eyes when we ask to how many significant figures are their instruments accurate."

David A. Griffith, Ph.D. '73, is with Procter and Gamble.

Bert H. Harroll, Ph.D. '22, is now retired from Kodak Research Laboratories where he was a senior research associate since 1962. He continues to live in Rochester and has been teaching photographic science at Rochester Institute of Technology. He became an honorary member of the Society of Photographic Scientists and Engineers in 1971 and has found much interest and many friendships in international conferences in photo-

chemistry program and joined Dr. Willard's radio-chemistry program. His research interests in trace element geo-chemistry and neutron activation analysis led to consulting and research activities at Argonne and NASA. When the moon landing of Apollo 11 was planned he submitted a proposal for trace element analysis of moon rocks and has been deeply involved in the space program ever since. Last fall he took a year's leave of absence to serve at Houston as director of the NASA analytical program and has been persuaded to join the laboratory on a permanent basis.

PROMOTIONS

Promotion lists of Madison faculty have included the following members of the Chemistry Department.

On July 1, 1973,

Marion O'Leary, organic, from Assistant to Associate Professor

James Taylor, analytical, from Associate to Full Professor

On July 1, 1974,

Charles P. Casey, organic, from Assistant to Associate Professor

From Chemistry to Forestry

Marshall R. Sprinkle, Ph.D. '32, sends a picture of himself watching Virginia State Forester Evan Sharp measuring the circumference of a pine planted in 1965. After retirement from Shell Chemical Co. in 1964 Marshall purchased a farm near Madison, Virginia (SR 3, Box 357) where he took a teaching position at the Madison Center of the University of Virginia. He retired from his second career after 7 years. In the meantime he had planted 45,000 loblolly pines on 50 acres of the farm which has a superb view of the Blue Ridge Mountains.

It is a pleasure to report that Marshall has shown good recovery from a heart attack suffered two years ago. He credits his wife, Jean Miller, Home Ec '32, with excellent guidance on his diet.

He recently wrote, "I was greatly saddened by the death of Professor Daniels who was one of the men I much admired as a scholar, teacher, and gentleman. One of the earliest remembrances I have of him (1929) was his great interest in solar energy as the ultimate source of energy when fossil fuels are no longer available. Had industry and government given more attention to this subject over the years, I think we might have avoided some of the problems we are now facing. I feel sure his research and publications in this field provide excellent background for the efforts currently getting underway."



Photo by Linda Payne

Lake Onondaga last spring where Varsity, JV and Freshmen won their respective races and went on to participate in international competition at the Henley in England. Art was a member of the Varsity crew in 1928-30 and is now president of Speidel, a Textron Company headquartered in Providence, Rhode Island. **Editor's Note:** Art is no doubt pleased that the Varsity and JV repeated in 1974 at the IRA with the Frosh second.

Raymond J. Klepfer, B.S. '30, writes from Yucaipa, California that he is very thankful that he retired at 60 since he is keeping busy with three to five 18-hole rounds of golf every week, bowling twice a week, gardening lawn and fruit trees, fishing, playing bridge, and numerous local trips to events and places of interest.

Virginia March Kline, B.S. '47, has returned to graduate school where she is working for her Ph.D. in botany now that her family of three children is grown. For many years she has been active as a guide in the tours program conducted by the UW Arboretum. Her husband is Bernard Kline, M.S. (Biochem) '33, who has been associated with the laboratories of WARF for many years.

William J. Knebel, Ph.D. '71, is at Hoffman-La Roche.

Harold W. Knudson, Ph.D. '39, writes that the *Badger Chemist* is always most welcome and interesting but sends no news about himself. Since his address is 9 Victoria Circle, Norwood, Massachusetts, it

is assumed that he is still with Hollengsworth and Vose Company in East Walpole.

L. C. Krchma, B.S. '31, writes, "As usual an excellent issue of Wisconsin chemistry affairs."

Charles J. Krister, M.A. '39, writes from 1207 Covington Road, Wilmington, Delaware, "The Daniels cover was excellent and the 'biogs' brought a gusher of memories of the '35-'40 period in the Department's golden age. Hope someone will collect all the memorabilia and put it all together in one volume. It would certainly ought to be done now while there are people around who remember and can record. Some of the Kahlenberg stories could be used to liven up some of the duller spots."

Walter M. Kutz, Ph.D. '30, writes that they have settled in California after many years in Pittsburgh. Dr. Kutz sent a brochure of the Oakmont Community Homes where he and his wife are settled in a retirement home. Their address is 110 Valley Lakes Drive, Santa Rosa, California 95405. He writes of frequently seeing Fred Bailey and Ray Klepfer, both Ph.D. '30.

Robert W. Laundrie, B.S. '42, sends no news but his card indicated that he is now an attorney at law in Akron, Ohio.

Blair MacQueen, M.S. '20, writes "I think I was in Dr. Daniels first physical chemistry class which was a summer school." He is retired at 804 Main Street, Oconto, Wisconsin.

Keith S. McCallum, Ph.D. '50, writes that he enjoys reading the *Badger Chemist* and sends thanks for keeping him on the distribution list.

C. Keith McLane, B.S. '43, M.S. '44, writes from Boulder, Colorado that he recalls with great fondness the visit he had with Professor Daniels in his office in 1971 when he was in Madison to attend the conference of the American Physical Society on Plasma Physics at the Wisconsin Center. He writes, "Needless to say, Danny was one of the most inspiring scholars and teachers I've ever known and a very good friend." Keith is finishing his fifth year as professor in aerospace engineering sciences at the University of Colorado and has been exceedingly busy as chairman of several professional programs in the Rocky Mountain area.

Robert E. McMahon, Ph.D. '48, continues his association with the (Continued on page 14, col. 1)

This 'n' That . . .

(Continued from page 12)

Roberta Jacques, B.S. '72, is with 3M in St. Paul.

Russell H. Johnsen, Ph.D. '51, continues his activities at Florida State University in Tallahassee. He and his family have been getting to Madison more frequently since their son Peter is a student at the UW.

Hamid S. Kasmai, Ph.D. '69, is a loyal supporter from Iran. He is in the Department of Chemistry at Pahlavi University in Shiraz.

John Arthur Keenan, B.S. '30 (Ph.D. biochemistry '34) writes in appreciation of the alumni news in the *Badger Chemist* and the article on Professor Daniels. He also commented on the University of Wisconsin success at the crew races on

NEWS OF FACULTY WIDOWS

Mrs. Louise Adkins, the widow of Homer Adkins who died of a heart attack in 1949, lives in Bellevue, Washington near her daughters Nance (Mrs. Ellsworth Dailey) and Dorothea (Mrs. Gordon Chadek). Mrs. Adkins' address is: 1111 102 Street, N.E. She is the grandmother of 11 grandchildren. (Nance has 2, Dorothea has 5, and Roger has 4). Roger Adkins lives at Leesburg, VA and is a deputy in the Bureau of the Budget in Washington, D.C.

Mrs. Olive Daniels is hard at work on a biography of her late husband. She reports a combination of progress and frustration. Dr. Daniels was so deeply involved in so many things that it is difficult to keep his many contributions in perspective. She continues to live in the longtime Daniels' home at 1129 Waban Hill.

Marie Fisher, widow of Emory Fisher, Ph.D. '35, the late editor of *Badger Chemist* and chairman of the Center System chemistry and physics programs, recently sold her home in Madison and has moved to 804 Ruth Drive, St. Charles, MO where she will be near her daughter's home. It will be recalled that the Fisher's were longtime residents of the "Show Me" State while Emory was on the faculty of the School of Mines in Rolla.

Following the death of her husband, Mrs. McElvain sold the home near Vilas Park where she and Mac had lived during their marriage. Mrs. McElvain's address is now: 4728 Regent St. Last Christmas she treated her two daughters and their families to a cruise which was enjoyed by all three generations.

Mrs. Ella Mathews is now living at the Attic Angel Nursing Home, 602 N. Segoe Road. Following Dr. Mathews' death in 1970 she moved to the home of her daughter Jean, (Mrs. C. C. Watson), where she resided until recently.

This 'n' That . . .

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Lilly Research Laboratories in Indianapolis where he is research adviser to the director of research. His interests continue in enzyme mechanisms and drug disposition research.

Ralph B. Mason, Ph.D. '25, is

now retired after a long career at Alcoa. He recently contributed a first and third edition of Getman's *Outlines of Physical Chemistry* to the UW Historical Collection. The Chemistry Department's holding of books associated with the late Professor Farrington Daniels is now complete. Dr. Mason also contributed a number of other chemistry books which he used during his student days at Wisconsin and sent copies of several communications between himself and Professor Mathews over the years. Dr. Mason was deeply involved in development of the Alzak process for electrolytic polishing of aluminum and his correspondence with Professor Mathews sheds some light on the research involved. Dr. Mason's research also involved production of an aluminum photographic plate. He was one of a very small number of Ph.D. students who worked with Professor Mathews.

J. R. Miller, B.S. '58, sent disaster relief from the Department of Chemistry, University of Maryland.

Charles R. Naeser, B.S. '31 (Ph.D. Illinois '35), Chairman of the Chemistry Department at George Washington University, sends his regards to Professors Schuette and Meloche and writes that as of June, 1973 he is giving up his position as departmental chairman to return to full-time teaching and hopefully some research. He was chairman for twenty-six years.

Maynette Bernstein Neundorf, M.S. '48, writes, "sorry I don't have interesting news for you," her letter comes from Lake Bluff, Illinois.

Wayland E. Noland, B.S. '48, returned to Madison last May for his 25th class reunion. He continues his professorship of organic chemistry at the University of Minnesota but visits Madison frequently to be with his mother. Wayland's father, who was Professor Lowell Noland of the Zoology Department for many years, died two years ago. The new zoology classroom building has been named in his honor.

William H. Ode, B.S. '27, writes from 5048 Cribari Vale, San Jose, California 95135.

Marilyn Ankeney Parker, B.S. '62, writes that she enjoyed reading the latest *Badger Chemist* but was upset by the picture of the

"happy chemists." "Not one of those is a woman (except the secretary)." She also has no recollection of there ever being a woman on the staff, although she would love to stand corrected if she is wrong. She continues, "Surely there must be a female chemist someplace in the U.S. who is qualified and could be persuaded to become a faculty member at UW-Madison. I hope you find her (and others) soon." She reports that she is now Chairman of the Chemistry Department at Monmouth College, West Long Branch, New Jersey. Following graduation at Wisconsin, she went to the University of Washington where she received her Ph.D. in 1967. Her research was done in physical chemistry (infrared spectroscopy) under the direction of D. F. Eggers, Jr. She met her husband, Richard Parker, while in graduate school. He is also a chemist and teaches at Newark College of Engineering. Editor's (Continued on page 15, col. 1)

MRS. GEORGE TOWN

Mrs. Yvonne Dauplais Town, the widow of Emeritus Professor George Galloway Town, B.S. '18, Ph.D. '22, was recognized last fall as the oldest and youngest coed on the Madison campus. She celebrated her 80th birthday on 11 June 1973, yet was youngest because the computer which has her records can't deal with 19th century birthdates and thus Mrs. Town is listed as born in 1993.

She was active on campus during the 1972-73 academic year where she is focusing her work on art. Her summer 1973 vacation was spent on a sketching tour in Scotland, Scandinavia, and England, after which she was planning to take in the Labor Day Rodeo at Ellensburg, Washington, before coming back on campus to work on conversational French and art-related subjects.

Her late husband will be remembered as chairman of the Chemistry Department at the Extension Division in Milwaukee prior to its merger with the State College to form the Milwaukee unit of the University of Wisconsin. The Towns then relocated in Madison where he served as director of the Extension Center Chemistry Program up to the time of his retirement in 1961. He died in Santa Barbara, California on 13 July 1965.

This 'n' That . . .

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note: Marilyn is correct that the Department has no woman of faculty status and has never had a woman on the staff at the professorial level. A number of women have held the faculty status of instructor at various times when teaching obligations were heavy, as after the end of World War II. The Department is exceedingly conscious of the problem and it should be rectified in the not too distant future as faculty positions open up.

Albert A. Pavlic, Ph.D. '42, writes from the Du Pont Building in Wilmington, "Again my thanks for the news from Wisconsin; we were sorry to hear about the passing of Sam and Farrington—they were great people."

Fredus N. Peters, Jr., Ph.D. '25, inquires about Professor Schuette and reports that he still teaches remedial reading one day a week at one of the local elementary schools and also had a math pupil during the past year. Since they don't give him any science pupils, he wonders if he doesn't know enough science to help a fifth grader. He also operates a ham radio but suspects that his fellow "hams" are up to sixty years younger than he. Nevertheless, he reports receiving interesting bits of information, philosophy, and humor. He reports "This is a hobby one can do with a minimum of physical exertion and I always was a bit allergic to exercise." It does seem that the local pelicans force exercise on him, since they fail to respect his front windows at 400 Golden Gate Point, Sarasota, Florida. He reports that the brown pelican, on the list of endangered species, is showing a significant increase in population and that Florida is sending one hundred pelicans each year to help Louisiana build up their flocks, which had almost become extinct.

Editor's Note: The Ihdes recently were luncheon guests of Pete and Helen at the Sarasota Yacht Club and visited their apartment where they have an incomparable view of the Inland Waterway, the Keys, and the Gulf. They both love Florida and are enjoying life to the fullest.

Ralph H. Petrucci, Ph.D. '54, became author of *General Chemistry Principles and Modern Applica-*

SALLIE FISHER HONORED



Sallie A. Fisher, Ph.D. '49, was granted the American Society of Testing Materials Award of Merit and named a Fellow of the ASTM on June 25, 1974 at the Shoreham Hotel in Washington, D.C. The Award is granted to individuals for distinguished service toward the standardization of specifications for physical and chemical characteristics of ion exchange materials for water. Sallie is vice president of Puricons, Inc. of Berwyn, Pa. where she supervises research involving the application of ion exchange and related techniques to pollution control problems. She received her B.S. at Wisconsin in '45, her M.S. with Professor Schuette in '46, and her Ph.D. with Professor N. F. Hall. She served briefly on the analytical faculties of U. of Minnesota-Duluth and Mount Holyoke before joining Rohm and Haas in 1951. From 1960 to 1972 she was associate director of research for Robinette Research Laboratories in Berwyn, Pa.

tions in 1971. Ralph is Professor of Chemistry and Chairman of the Natural Sciences Division at California State College-San Bernardino.

George D. Phillips, B.S. '21, addressed a letter jointly to Professors Henry A. Schuette and V. M. Meloche as follows: "You may not remember me, George Phillips, Chem. 1916-21. Henry taught me alkaloidal chem. and V. W. in many of my classes. My good friend was Burt Blonien, whom you knew very well. We both taught at Lincoln High in Milwaukee. I went into the summer resort business here in northern Wisconsin for forty years. Sold about seventeen years ago. Then went into the real estate business." His home and business are in St. Germain, Wisconsin 54558.

Mrs. R. H. Potts, B.S. '15, writes from 730 South Spring Avenue, La Grange, Illinois.

Everett Pryde, Ph.D. '49, writes from 2312 W. Newman Parkway, Peoria but sends no news about

himself. At last report he was at the USDA Regional Laboratory.

Armand J. Quick, M.S. '19, had the honorary degree of Doctor of Science conferred on him by Marquette University on May 20, 1973. He had been a member of the Marquette Medical Faculty for many years. His new book, *Hemorrhagic Diseases and the Pathology of Hemostasis* has just been completed.

James A. Reed, B.S. '30, writes, "The May issue . . . was particularly appreciated because of the excellent portrayal of 'Danny' as well as others, particularly Mel, whom we fondly remember."

Michael D. Ryan, Ph.D. '73, has a postdoctoral position at University of Arizona.

Harold K. Salzberg, Ph.D. '28, writes from Cape Coral, Florida, "The May number of *Badger Chemist* was particularly interesting to me and I am sure to all of those of my era, the 1920's. The loss of two stalwarts . . . was tragic. Thank you for the opportunity to read their biographies reminding us how full of accomplishment each was." Dr. Salzberg was associated with the Borden Company before retirement.

Dalton L. Shinn, Ph.D. '35, sent his contribution without news from 411 N.E. 17th, Camas, Washington 98607.

Herbert J. Sipe, Jr., Ph.D. '69, sends his contribution from Hampden-Sydney College in Hampden-Sydney, Virginia where he is Chairman of the Chemistry Department. The school will have its bicentennial in 1976.

Leo B. Spinar, Ph.D. '58, writes that the lure of academic administration has been pulling him out of the laboratories and classroom. For the past three years he has been splitting his time between chemistry and administration. On July 1, 1973 he received the title of Director of Planning, Program and Budget at South Dakota State U in Brookings.

Joseph P. Stenson, Ph.D. '70, is a member of the Chemistry Department at Delaware Valley College of Science and Agriculture in Doylestown, Pennsylvania.

Robert P. Stewart, Ph.D. '71, is on the faculty at Miami University, Oxford, Ohio, following a postdoc at University of Alberta.

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This 'n' That . . .

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tee D-19 on water by the American Society for Testing Materials. He has been in his present position since 1958 and has been concerned with the development of methods for determining trace elements and heavy metals in natural waters, the application of emission spectrographic methods to the analysis of water, and the standardization of methods for water examination, testing and analysis. Upon finishing his Ph.D., he was on the chemistry faculty of St. Olaf College.

Roberta Hemming Svacha, B.S. '49, continues working in research administration with Universal Oil Products Company in Des Plaines, Illinois. She reports that **Ed Homeier, B.S. '51**, is a colleague.

Charles Templeton, Ph.D. '48, reports that he is still doing petroleum production research with Shell Development in Houston.

Glen Terry, Ph.D. '51, is now with the Atomic Energy Commission licensing division. His new address is 4205 Holborn Avenue, Annandale, Virginia 22003.

H. Wilco Vandeborn, Ph.D. '73, is with the Biochemicals Department of Du Pont.

Marion Veazey, Ph.D. '26, sent a newsletter on May 23. He and his wife Daisy still live at their long time home at 2050 Greenfield

Rd., Hagerstown, Maryland. They spent January through March in Seminole, Florida enjoying many activities there with side trips as far south as the Keys. They have a daughter in New England and a daughter-in-law in Santa Barbara, Calif. They take great delight in twelve grandchildren.

Phillip M. Walters, Ph.D. '42, 3203 Delwynn Drive, Wilmington, Delaware sends a contribution but without news of his activities.

Charles L. Warner, B.S. '18, sold his St. Louis Laboratory in 1966 and moved to Leisure World in 1970. His address at 3244 Glen Eagles Drive, Silver Springs, Maryland is directly across the street from the golf course.

Winston J. Wayne, Ph.D. '40, is doing research on agricultural chemicals for the Biochemicals Department of the Du Pont Company at Wilmington. His wife **Jem McPherson Wayne (M.S. '40 in Home Economics)** is busy with volunteer work in various areas. Their daughter Susan is teaching sixth grade in Springfield, Ohio while daughter Leslie is working for her Master's degree in library sciences at the University of North Carolina. Both girls are graduates of Wittenburg University in Springfield, Ohio. Dr. Wayne writes that he lives in close contact with many Wisconsin Ph.D.s and enjoys reading about others in the *Badger Chemist*.

Mary Elvira Weeks, M.S. '14, writes from 19339 Sussex St., Detroit but gives no news about her activities.

Paul E. Whitson, who expects to complete his Ph.D. with Professor Evans in 1974, is teaching at Adrian College in Michigan.

Clarence H. Winning, Ph.D. '32, writes from 400 West Mantua Ave-

nue, Wenonah, New Jersey 08090. "I enjoy reading every issue of *Badger Chemist* and enclose a check to support its publication."

Lloyd Withrow, Ph.D. '25, sent a long newsy letter in which he expressed pleasure in hearing about **Earl Whitford, Fredus Peters, Roger Leuck, Earl Winslow, Blair MacQueen, Honore Hubbard, Marian Henry Veazey, Harvey Sorum and Henry Schuette**. He writes, "Karl Paul Link was an inspiration to me. Back in 1922 we both studied our Getman and Daniels together and we attempted to rationalize its contents. This enabled us to enjoy Professor J. Howard Mathews as he literally read the textbook in his class in physical chemistry and struggled to copy equations on the blackboard." Lloyd had been an employee of General Motors for thirty-seven years when he retired in 1963.

Layton Wittenberg, Ph.D. '53, is on leave from the Mound Laboratories operated for AEC by Monsanto to work with the nuclear fission group on the Engineering campus of University of Wisconsin.

Warren D. Woessner, Ph.D. '71, has had his first full-length volume of poetry published. Entitled *Landing*, the book was published by Ithaca House. Woessner is the editor of *Abrazas*, a poetry magazine, and is a research scientist in the Prostaglandin Research Division of the Miles Laboratories in Madison.

Warren W. Woessner, Ph.D. '40, has returned to work on industrial hygiene in the Medical Division of Du Pont at New Brunswick, New Jersey, an area which he left twenty years ago when he became involved in dye manufacture at the plant. The Woessners were in Madison briefly last summer to visit their son **Warren D.** (see above). The senior Woessner's youngest son, William, finished his M.A. in geology recently at University of Florida and plans to enter graduate work at the UW in geology.

F. Chandler Young, Jr., B.S. '66, was married to Ann Shaw of Corpus Christi, Texas on February 9, 1974. The marriage took place in San Francisco. Chan is the grandson of Emeritus Professor H. A. Schuette. He is an executive with Container Corporation of America in San Francisco.

Badger Chemist still suffers from financial problems (see "The Editor Reports," page 2). Inflationary price increases keep the printing bill escalating. Send appropriate lubrication to:

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1101 University Avenue
Madison, Wis. 53706**