Badger chemist : a newsletter from the Department of Chemistry--University of Wisconsin--Madison. Newsletter 30 November 1983

University of Wisconsin--Madison. ; Dept. of Chemistry
Madison, Wisconsin: Dept. of Chemistry, University of Wisconsin, November 1983

https://digital.library.wisc.edu/1711.dl/66YCJIVSAA6SF8S

BADGER CHEMIST

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

Newsletter 30 **November 1983**

NIEDERHAUSER SERVES AS ACS PRESIDENT-ELECT

Warren D. Niederhauser, PhD '43, was successful last year in his candidacy for the position of President-Elect of the ACS. He will take over the presidency on January 1, 1984 after completing a year in his present position. The election last fall was unique in ACS history since Warren's opponent, F. Albert Cotton, Distinguished Professor of Chemistry at Texas A&M, sent a letter to a selected list of ACS members seeking their support. According to CEN for 11-22-82, "...the letter described Niederhauser in less than complimentary terms, questioning his leadership capability and belittling the grassroots group allegedly supporting him." According to *Science,* 11-29-83, "Part of Cotton's strategy was to play upon differences between academic and industrial members of ACS, suggesting that Niederhauser was more interested in parochial concerns such as chemists' working conditions than in substantial scientific issues." Cotton later apologized to Niederhauser, retracting his earlier statements. When the ballots were counted, Niederhauser tallied 21,993 votes or 59%, 6,438 more than Cotton. It is unknown how much effect the Cotton letter had on the election results. The ACS failed to comment on it until the election was over.

Niederhauser has long been known as a chemist with a strong position on professionalism, that the ACS "must be concerned with the professional interests and economic status of chemists." In his official campaign statement he declared, "ACS is well known for its scientific and educational activities. It must establish the same reputation for professional progress," (CEN, 11-22-82, p. 4). We have a copy of his "Report of the President-Elect" in which he makes apparent his deep concern for the professional welfare of chemists, a concern reflected during his entire career.

Warren Dexter Niederhauser was born in Akron on January 2, 1918. He attended Oberlin College, taking his AB in chemistry in 1939. Thereupon he entered graduate school at Wisconsin where he was a student of Homer Adkins and served as a Research Assistant. He ultimately became involved in defense research and when he received his PhD in '43 the Commencement Register failed to report the title of his thesis, merely stating that the title is withheld for national security reasons.

Upon graduation, Dr. Niederhauser joined Rohm & Haas as head of the surfactant group. In '51 he joined the chemistry section of the Redstone Division in Huntsville, AL, in '55 he became research supervisor, and in '59 was named Asst. Director of Research, and in '73 became Director of Pioneering Research.

The list of ACS offices he has held is lengthy, including councilor positions in the North Alabama and Philadelphia Sections as well as in the Fluorine Division; Director of Region III (Northeastern); Executive Committee; Comm. on Professional and Member Relations; Publications; History of Chemistry Task Force; Task Force on Chemistry and Public Affairs; Task Force on Agricultural Research, Congressional Science Counselor, Committee on Professional Relations, Employment Aids, and Patent Matters and Related Legislation. He now serves as President-Elect, will become President on January 1, 1984, and will serve another year as Immediate Past President.

Warren Niederhauser comes of a scientific family. His name in *American Men of Science* (11th ed., 1965) is surrounded by those of Wendall S., Donald O. and John S. Wendall S. is an uncle who took a PhD in chemistry at Princeton in '28 who entered industry after 8 years of teaching at Brown and Williams College. He retired from Rohm & Haas in '66. Donald O., an older brother, has a Michigan PhD in chemistry, '47. He has been with Du Pont since then, holding a series of responsible research positions in the area of polymer problems. John S., a cousin, shunned the chemistry field, taking a PhD at Cornell in plant pathology in '43. He taught briefly at Cornell, then held a succession of professional positions with the Rockefeller Foundation where he became director of the International Potato Program in '61. Wendell, Warren, and Donald all were undergrads at Oberlin College during the period when Harry N. Holmes was head of the chemistry department.

As Badger Chemists we join in wishing Warren a harmonious and successful presidency as he deals with the numerous professional problems facing the profession.

CHEMICAL DEMONSTRATIONS: FIRST APPEARANCE

Professor Bassam Z. Shakhashiri is general author of the first volume of a set of books dealing with lecture demonstrations in chemistry. The publication of volume one was observed by a christening held in the Alumni Lounge last May. (Scenes taken at the party appear elsewhere in this newsletter.) Work on the set continues and it is hoped that successive volumes will appear annually. Present plans look toward a total of five or six volumes when the project is completed. A review of volume 1 follows.

Chemical Demonstrations: A Handbook for Teachers of Chemistry, Volume 1, University of Wisconsin Press, Madison, 1983, xiv + 343 pp., $25.00.

Since the Chemistry Department at Wisconsin has been noted since the nineteenth century for the use of lecture demonstrations as an aid in clarifying chemical principles (as well as scaring hell out of inattentive students), it is not surprising that the UW Press should be the publisher of the projected set of books on chemical demonstrations, and that Shakhashiri—Director of the General Chemistry Program since 1970, should be principal author. However, this is a collaborative venture and the list of contributors for volume one includes the following Badger Chemists (degree holders as well

(Continued on page 6, col. 1)

BADGER CHEMIST

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

Editors

Aaron J. Ihde, Ph.D. '41
(Retiring)

Paul F. Schatz, Ph.D. '71
(Incoming)

Editorial Associate
Edwin M. Larsen, B.S. '37

Editorial Assistants
Debbie Lauder
Leta Roettiger
Bette Germann
Harold Schimming

Please address all communications to:

Paul F. Schatz, Editor
Badger Chemist
B324 Chemistry Building
Madison, WI 53706

THE EDITOR SPEAKS

Continue Help

Your departing Ed managed once more to pay the printing bill before the printer's hit squad descended, and without the customary appeal to the faculty scrooges for disaster relief. He would hope that you give the new Ed your continued compassion. Being much younger, he jumps and clicks his heels like Baryshnikov when he sees a sizeable check. He would appreciate your putting your degree and year on all correspondence with him.

Endowment Fund Growing

The endowment fund continues to show growth at a rate faster than anticipated when Amby Nichols made his suggestion several years ago. Additions to the fund bring it to a present level of $8,800. This has come from direct gifts of $100, some being paid over a four-year period, most in one payment. All matches by corporate donors are channeled into Endowment, as is income earned by the Wisconsin Foundation which has invested the Fund and manages it for us. We hope there is general approval of our policy of not spending income until the Fund is sufficiently large to support fully all *Badger Chemist* publication costs.

Until that day is reached we shall be happy to receive contributions to the Endowment Fund. At the same time, regular contributions to the Operating Fund continue to be essential.

Incidentally, besides Patty Meloche's generous contribution in Mel's memory, several of his students have mentioned that their gifts are in his memory. This is very appropriate since Mel was always a strong supporter of BC and Dr. Schuette put his name on the masthead in appreciation for news items passed on by him. Possibly there are others who might wish to memorialize Drs. Schuette or Fisher, the first two editors who gave so much to the success and survival of *Badger Chemist* in its early years. A plan can be worked out to place permanently such memorials in the record.

Last Warning

In accordance with a decision made five years ago, the address cards of those Badger Chemists who have had no contact with the department for five years will be pulled before BC 31 goes in the mail next year. We do this because we know that many copies no longer reach the addressee at the place listed, yet we have no way of knowing how many such copies are undelivered without sending out a first-class mailing with request for forwarding address. Such a venture would be very costly, not only in postage, but in the time of office personnel.

Hence, we place the burden on you. If you haven't checked in during the past five years we shall conclude that (1) our address is in error and BC doesn't reach you, or (2) you're disinterested. Your mailing will be discontinued. If you are not sure if you've reported in, send a note with your present mailing address, preferably your home address since personal matter sent third class to a business address is sometimes discarded by the mail clerk. A contrib is always graciously received but is not essential. Even a postal card will do—put some reportable news on it.

Many Thanks, Leta

Ye Ed takes this opportunity to thank, in behalf of himself and the entire community of Badger Chemists, Leta Roettiger who held the *Badger Chemist* operation together in the years since he took over. She was faithful in typing virtually all copy for the printer, usually from rapidly taken shorthand notes taken during hasty dictation, frequently typed from the Editor's illegible scrawl, and worst of all—from recorded tapes. She made all address changes—and there were many, and kept an up-to-date set of file cards of all those on the mailing list, as well as an inactive file of alumni from which lost souls were sometimes recovered.

She checked mailing labels generated by Alumni Records against our address file and reconciled discrepancies, frequently correcting Alumni Records. She stuffed newsletters into envelopes and sent them over to the university's bulk mail office. She reminded the Editor of the jobs that needed to be done and gently jogged his memory when he forgot to do them! She typed mailing labels for the recent grads who were not yet on the Alumni Records computer, and for former postdocs, visiting profs, and other friends of the dept. who like to receive BC. Finally, after the BC went out, she recorded the contributions and sent the checks to Wisconsin Foundation. Through it all, she came to have an amazing knowledge of Badger Chemists around the world. She could look at the CEN annual list of 50-year members and spot the Wisconsinites; same for lists in *Wisconsin Alumnus* and the AXE *Hexagon*.

Leta retired from the departmental staff on June 29, 1983. I know that many join me in wishing her a long and pleasant retirement. She did a painstaking job in a cheerful and cooperative fashion.

Her work for the *Badger Chemist* is being carried on by Debbie Lauder who joined the staff in July. She is becoming rapidly involved in a mass of problems but responding to the challenge very well.

So we sign off—welcome aboard, Debbie, and Leta, many thanks for all your contributions to having a smooth operation.

AJI

SWANSONG

This is my last issue of *Badger Chemist*. I have been personally responsible for the last 14 issues as editor, but was associated with the newsletter in a peripheral manner from the beginning in 1953 since Prof. H. A. Schuette was always prone to request help and advice on various matters. He, however, wrote virtually every sentence in all the numbers he edited and he contributed substantially even after Emory Fisher became editor. It was a labor of love for Henry Schuette who entered the UW as a student in 1906. He took three degrees in the department and was an Instructor before completing his last degree. His seven-decade association with the department made him a gold mine of information about its personnel and its history.

Emory's association was not as long, nor as close, but he developed a deep feeling about the editorship which continued the newsletter in the Schuette tradition. Emory came to the UW in the early '30s as a student of Prof. Sorum. After taking his PhD in '35 he held teaching positions in several southern universities before starting a 17-year association with the Missouri School of Mines. He returned to Madison in '63 as director of chemistry and physics in the Extension Centers as well as teaching in the freshman program in Madison. Dr. Schuette persuaded him to take the Editorship of BC in '65 and he served in that capacity for 5 years before his death of heart failure in '69.

I was suddenly pushed into the editorship following Emory's death and have

(Continued on page 3, col. 1)

Swansong

(Continued from page 2)

now turned out more numbers than either of my two predecessors. Fortunately, Emory had prepared a substantial amount of copy before his death and Dr. Schuette had added thereto. I went ahead and completed No. 17 for publication in February '70.

At the time I did not anticipate continuation until now. I hoped to create a small editorial committee to advise and help with the publication. It never materialized! In retrospect, I am rather glad that it did not since committees rarely succeed unless one member does all of the work. Anyhow, I could do the job as I wished and I rather suspect that BC has reflected not only my interests, but my prejudices and my values as well. I have irritated some and pleased others. The letters containing support, both written comments and financial, have made the job bearable.

I sought to anticipate what I would like to hear about classmates, the faculty, the department, and the university had I been a chemist at Du Pont, or a prof at Texas State, or a scientist at the FDA, instead of a faculty member at Wisconsin, and tried such columns out on you. Those that drew brickbats I dropped, those that drew expressions of interest, I continued. I soon found, as had my predecessors, that "This 'n' That" held broad interest even though most names were known to only a few. "Faculty News" has been relished despite being unbalanced on account of disinterest of some faculty in providing information. Listing of "50-year membership" in ACS brought complaints when omitted. "In Memoriam" is followed carefully even though it brings sad news. The listing of "new graduates" is popular with recent grads but there is little interest in thesis titles. "Overview," which was tried as an experiment, has proved surprisingly popular to many and has been expanded. I am unsure if summaries of "UW sports" results are worth the effort. The "profiles" of retirements and faculty deaths have generated many comments, many pleasantly nostalgic. I gained the impression that many alumni recall some of their chemistry professors with genuine affection.

One of the bonuses of the editorship is the letters received. They have made the effort worthwhile. When one sees the newsletter finally into the mails, there is a feeling of relief coupled with the question, "Why do I continue to burden myself with this obligation?" Then your letters start coming and I do it to myself once more!

I have also appreciated your cheerful response to requests for financial support. This has been particularly good in the past several years when the printing bill has been completely covered without going to the faculty for bailout. Progress is even being made on the Endowment Fund, hopefully enabling some future editor to drop the customary pitch for support.

Best of all, some of the letters have generated enduring friendships, even though we never meet in the flesh. I have frequently regretted being unable to reply to all correspondence, but there are limits! Hence, thanks for writing even though I never answered, never thanked you for the check. I did appreciate everything you sent.

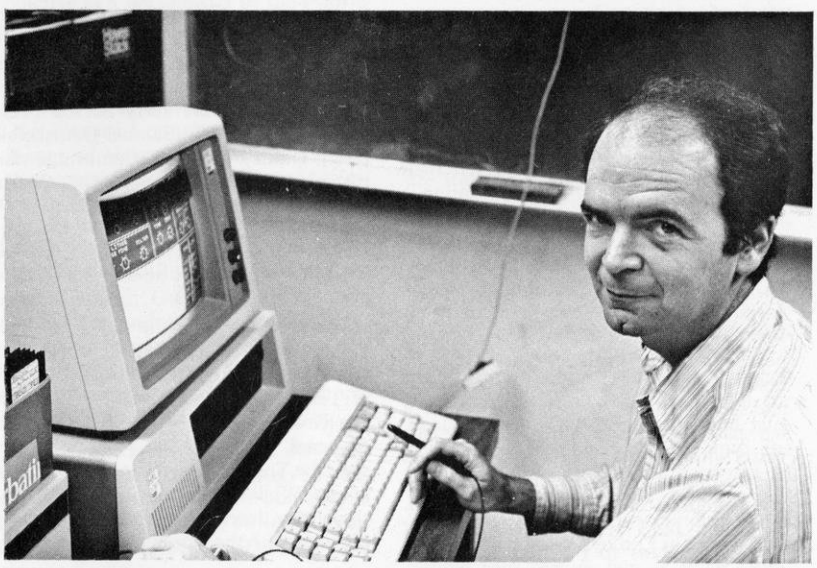
It was my firm decision two years ago to step aside after 30 numbers of *Badger Chemist* had been completed. As a very wise friend once told me more than 50 years ago, "There is no such thing as a man who is indispensible." Therefore, I decided to quit as editor before I began to believe I am indispensible, before readers began to ask, "Why doesn't he quit?"

Besides, I want to get on to other things. The annual production of a newsletter is sufficiently time-consuming that I look forward to relief from the obligation. Most important, I am anxious to devote more time to the departmental history so that the book can soon undergo publication. Also, I want to do more loafing, or at least have time to attack some of the unread books in my library.

As I turn the editorship over to Paul, I plan to retire completely. I promise you, Paul, that I shall not look over your shoulder, shall not tell you what to do or when to do it. It is your newsletter. Feel free to make it what you will—as I did during the past 14 years. I hope it will give you the same pleasure as I have had, and less of the burden and frustration that it has given me. But don't expect that it won't have frustrations. Best wishes!

And to all of you out there on the receiving end, I trust you will give Paul the same support and encouragement that you have given me. Best wishes!

AJI



Paul Schatz — Editor

TA AWARDS

Five teaching assistants have been selected as recipients of the Outstanding Chemistry Teaching Assistant Awards for 1982-83. Each award consists of a citation and a cash prize of $100. The recipients were selected for excellence in teaching discussion-laboratory sections on the basis of student evaluations and recommendations of the faculty. The recipients and the courses in which they taught are:

Robert DesEnfant (Chem 103 and 104) General—1st & 2nd Sem.

Joann Eisenhart (Chem 103)

Frank Oaks (Chem 109 and 344) 1st Sem. for Majors and Organic

Shu-Lang Tang (Chem 221) Analytical

Carla Verschoor (Chem 103 and 108) 108 is a 1 Semester Terminal Course

These awards are supported by the University of Wisconsin Foundation Undergraduate Chemistry Teaching Fund and the Harry Steenbock Trust-Alpha Chi Sigma Fund.

50-YEAR MEMBERS, ACS

CEN for June 7, '83 carries the names of the following Badgers who have been members of the Society for a half century. If we have missed anyone, please scream. We'll mention you next year.

Milford A. Cowley, La Crosse, WI

Joseph O. Hirschfelder, Madison, WI

Ludwig C. Krchma, Kansas City, MO

Frank H. Verhoek, Worthington, OH

ABOUT THE FACULTY...

Charles P. Casey was in Brazil for three weeks in November '82 where he gave a short course in organometallic chemistry at Sao Carlos Universidade. While in Brazil he presented a paper at a meeting of the Sociedade Braselevia de Quimica and lectured at several universities. In June his research group served as host for a Catalysis Conference sponsored by the Department of Energy.

Fleming Crim has been named Dreyfus Teacher Scholar and Rommes Faculty Fellow. Dreyfus grants of $50K in research funding are awarded to young faculty members of exceptional promise who combine interest and demonstrated ability in teaching and imaginative research. In January he was an invited speaker to the International Conference on Photochemistry and Photobiology in Alexandria, Egypt. In April he participated in the Faraday Discussion on Intramolecular Kinetics in Warrick, England. In July Fleming was an invited speaker at the Eighth International Conference on Molecular Energy Transfer in Cirencester, England.

Larry Dahl was named Distinguished Alumnus of the College of Letters and Science, University of Louisville, for 1983. In June, he was a main lecturer on cluster chemistry at the 29th International Congress of Pure and Applied Chemistry at Cologne (Federal Republic of Germany). At this time he presented seminars at the Max-Planck-Institut for Solid-State-Chemistry (Stuttgart) and at University of Munich. He was a lecturer in Symposia on Catalysis with Transition Metal Hybrides (New York Academy of Science, November, 1982) and on Perspectives in Modern X-Ray Crystallographic Analysis (American Crystallographic Association National Meeting at Columbia, MO, March, 1983). Other invited colloquia this last academic year (September, 1982-August, 1983) include Northwestern Univ., Univ. of Chicago, Univ. of CA-Riverside, Univ. of CA-Irvine, Univ. of CA-Berkeley, Univ. of Southern CA, UCLA, CAL Institute of Technology, and Brookhaven National Laboratories.

Arthur B. Ellis was invited by the U.S. National Committee for IUPAC to be an observer for the Committee on Electrochemistry at the IUPAC General Assembly Meeting in Lyngby, Denmark in August. In September, he will be in Venice, Italy as an invited speaker at the First International Conference on Lanthanides and Actinides.

Dennis H. Evans has become an Associate Dean of the College of Letters and Sciences. He is a member of the Advisory Board of Analytical Chemistry and is on the Chemistry Research-Evaluation Panel for the Directorate of Chemical and Atmospheric Sciences, Air Force Office of Scientific Research. During the past year Dennis presented a Plenary Lecture at the EUCHEM Conference on Organic and Organometallic Electrochemistry in Dun Loughaire, Ireland, a Frontiers in Chemistry at Wayne State University, as well as several other papers and lectures.

John D. Ferry was inducted as an Honorary Member of the Society of Rheology, Japan at the 10th Anniversary Meeting in Kyoto in June. At this meeting he presented the Memorial Lecture. While in that area of the world, John gave lectures at Osaka University, Tohoku University, Institute for Chemical Research (Kyoto University), Japan Synthetic Rubber Company, and Korean Advanced Institute for Science and Technology.

Donald F. Gaines gave a plenary lecture at the Intraboron Meeting in Leeds in September, 1982. While abroad he also lectured at Glasgow and Edinburgh. Don was recently appointed to the Editorial Board of Inorganic Chemistry.

Joe Hirschfelder has enjoyed excellent recovery from his coronary operation in May '82 when he had five bypasses. It is now apparent that he is as good as ever and is spending hours and hours pursuing his theoretical research. He and Betty continue to spend half a year (summer) in Madison and half in Santa Barbara, winter.

Emeritus Professor **M. Leslie Holt** and Gretchen recently visited Arkansas for a family reunion. Les grew up in a family of seven children and reports that all seven got together this year for cameraderie, golf, anecdotes, teasing, and a wonderful time. They try to get together at a recreational spot every two years, but this was the first in some time that all seven were able to be present.

Aaron and Olive Ihde observed their 50th wedding anniversary by renting a houseboat in La Crosse and exploring the Mississippi for several days with their children and grandchildren. Although no fish were caught, a relaxing time was enjoyed by all, despite one night of heavy upstream winds and a second night exposed to a near tornado. Each time the boat was safely grounded on a sand bar and securely tied to three sturdy trees. All ten passengers took turns piloting the vessel without mishap except for a missed line in one of the locks. The two eldest grandchildren entered college this fall. John and Jan's Jenny entered St. Olaf where she plans to pursue a chemistry major, as did her father and grandfather before her. (John Walters, recently of our UW faculty, is her advisor). Gretchen and Hal's Karim is at Emory where he plans a communications major. Prof. Emeritus Ihde expects the paperback edition of his history of chemistry, *Development of Modern Chemistry,* to be off the presses of Dover Publications in late fall.

Stephen F. Nelsen visited Europe in November where he gave lectures at York, University College, Groningen, Amsterdam, Tech. U. Berlin, Erlangen, Stuttgart and Tubingen. Steve was elected to the Organizing Committee for the Eighth Structure Energy Relationships Conference.

Barry M. Trost has received the First Allan K. Day Award of the Philadelphia Organic Chemist's Club and the Chemical Pioneer Award of the American Institute of Chemists. He has traveled extensively and given many plenary lectures: Fourth IUPAC Conference on Organic Synthesis in Tokyo, Japan, Humphrey Symposium (McNeil-Ortho lecturer) at the University of Vermont, Arapahoe Distinguished Lecturer at the University of Colorado-Boulder, the Oesper Symposium at the University of Cincinnati, the Georges-Elie Amyot Lectures at Laval University, Quebec, Ayerst Lecturer at the University of Montreal, Hilmar Johannes Bacher Lecturer at the University of Groningen (Netherlands), Royal Society of Chemistry Annual Meeting in Lancaster, England, the Second Conference on Organic Chemistry of Natural Products in Industrial Chemistry in Italy. In May, Barry was one of three former Bachman Lecturers invited to give plenary lectures at a special symposium in honor of the 25th Bachman Lecture. The other two plenary speakers also have close Wisconsin ties: William S. Johnson (faculty '40-60) and Gilbert Stork (PhD McElvain, '45). Barry will begin service on the Medical Chemistry Section of the NIH. Closer to home, he originated a short course at the UW in conjunction with the ACS entitled Frontiers in Organic Chemistry. The lecturers for the course were Jerry Berson (Yale, UW faculty '63-69), Samuel Danishefsky (Pitt), Dudley Williams (Cambridge-visiting prof. UW), Hans Reich, Charles Casey, and Barry Trost.

Worth Vaughan gave a lecture at the University of Puerto Rico-Rio Piedras in May.

While on leave for the spring semester, **Robert West** was a visiting professor at the Universities of Utah and Florida, and at Texas Christian University (Cecil and Ida Green Honors Professor). On a trip to Israel, he lectured at Hebrew University, the Technion, and the Weizmann Institute. While in Israel, he traveled through the Negev desert which he reports was in blossom with the most spectacular flowers

(Continued on page 5, col. 1)

This 'n' That About Our Alumni

Prof. Sukumar Achtya of the University of Calcutta returned for a visit in Madison from Aug. 28-Sept. 3, 1983, following attendance at the International Conference on Photochemistry at College Park, MD the previous week. He has been a visiting research worker in Prof. Willard's group in '55, '65 and '77.

Leslie H. Andrews, BA '27, PhD '32, Pittsburgh, repeats that he and his wife are still in good health and able to do the things they have been doing for the past 16 years since retirement. They have two grandsons at UW-Madison.

William Antholine, BS '65, is associated with radiation biology and biophysics at the Medical College of Wisconsin in Milwaukee.

Rolland A. Aubey, BS '49, particularly enjoyed recent newsletters which dealt with John Ferry, Dr. Meloche, and Sorum. Rolland is with Nekoosa Papers, Inc. in Port Edwards, WI.

Paul R. Austin, BA '27 with a Cornell PhD in '30, reports being impressed by still finding over 20 names of people he knew and likes to hear about.

George Bailey, BA '09, was a long-time friend and former plant manager of a Du Pont facility in Perth Amboy, NJ.

John C. Bailar, Jr., professor at the University of Illinois, reports appreciating the *Badger Chemist* since it keeps reminding him of the many close connections between Wisconsin and Illinois over the decades. He reports that Kelsey Cook and Alex Sheeline who took degrees at Wisconsin are now at Illinois. John was also able to come up with the whereabouts of **Eugene Brimm,** BS '38, who took a PhD in '40 at Illinois. His address is 18121 Allegheny Dr., Santa Ana, CA 92705. He is retired but doing some consulting.

Frances Baird, MS '61, and **Wallace Baird,** PhD '63 (Dahl), sent a check but no letter.

Al Baker, PhD '64 (History of Science), continues as librarian at USC where he reports that Marcie is associated with the neurosciences program.

Clayton L. Baldwin, MA '40 (Schuette), who is retired from Sunkist in California, reports a visit to Newark, DE, where a son-in-law is with Thiokol.

Robert Baldwin, BA '50 (PhD '54 Oxford), reported that it has been a quiet year.

David E. Bennett III, PhD '69 (Curtiss), reports that he is still at Sandia National Labs and was recently elected to the Board of Directors of the National Rifle Association.

William F. Benusa, BS '57, MS '59, wrote from Verona, PA, "enjoy the annual updates."

Mary Leutzow Bernard, BA '49, reports that she continues teaching at West Aurora High School in Illinois where she does Honors Chemistry and Introductory Physical Science.

Douglas E. Berryman, BS '65, reports that he received an MS in foods from the UW Department of Food Science and Technology in '67 where he did work on pigments and cranberries. He spent the next two years as a Captain in the Army Medical Service Corp. supervising a clinical chemistry lab in San Francisco. Since that time he has been with Nekoosa Papers in Port Edwards, WI, where he is senior analytical chemist. Doug reports that other Badger Chemists in R&D at Nekoosa are **Rolland Aubey,** BS '49, and **Warner Boortz** who did graduate work in '59.

James P. Bershas, PhD '75 (Vedejs), sends greetings from central Ohio and the Owens-Corning Fiberglas Corp.

Warren Biggerstaff, PhD '48 (Wilds), sent a long letter from Fresno where he is at California State. Warren reminisced about the TA days when he taught for Profs. Walton and Krauskopf and later with Sorum. He was drafted into the Medical Corp. in '44 and returned to Madison in the summer of '46. He recalls at that time the temporary building (T-13) which was constructed on Linden Dr. and housed four organic labs, a stock room, and an office. Warren supervised the TAs there with Mike Klein as his mentor. The Fresno U. now has 15,000 students and 20 Chemistry staff members. Warren hasn't been back to Madison very often, but reports enjoying a visit with Al and Caroline Wilds about 3 years ago, at which time he couldn't believe the changes which had taken place in Madison.

Toby Block, PhD '76 (Fenske), and her husband, **Jerry Greenberg,** who postdoced in Molecular Biology in the mid-70s, report the birth of a daughter who was eagerly awaited by her brother Mark.

Susan D. Boettger, BS '74 (PhD '79 Cornell), is with Bristol-Myers in Syracuse. She reports that her colleague, **William Gruenbaum,** PhD '75, both failed to receive number 29 of BC despite having communicated in the last two years. Sorry about that, Ed.

Edward Bohlman, MS '41, is now retired and living at 27 Ona Rd. Lake Tansi Village, Crossville, TN 38555. Prior to retirement he had worked at the Oak Ridge National Lab since the war years. He visited Prof. Willard on Aug. 20, 1983.

Joseph Bragin, PhD '67, is serving as Associate Dean for Academic Resources and Professor of Chemistry at Cal State U. in Los Angeles.

Eugene Brimm, BS '38 (PhD Illinois '40), whose whereabouts we claimed not to know last year, sent in the relevant This 'n' That item under **Willihnganz** with the mailing label which brought him BC 29 on which was written, "Yes you do." The Editor's face is red, revealing that it is time to quit because he no longer controls his own operation.

David Britelli, BS '66 (PhD Illinois '69), has been on the staff of Central R & D at DuPont's Expt. Sta. where he sees many UW alumns daily. Is involved in organophosphorus chem and application of MO theory.

Barry G. Brueggeman, PhD '80 (Schrag) was one of the alumni who received a defective *Badger Chemist.* He has recently moved to the Cleveland area and is senior research chemist at B. F. Goodrich where his research is in applications development for dispersion PVC.

Janet Weber Bruhn, BS '33, was recently in communication. Janet is one of the last students to take her degree in Chemistry Commerce, a program which was initiated in the early '20s by Prof. Mathews. She is the wife of Hjalmer Bruhn, who was Professor of Agricultural Engineering for many years at the UW.

Ray Brumblay, PhD '38 (Kahlenberg), reports that their youngest recently graduated with a BS in nursing. This is the first time in 22 years that he and Lolita did not have one or sometimes two child-

(Continued on page 11, col. 3)

Faculty *(Continued from page 4)*

of the last fifty years. Besides keeping busy researching the chemistry of multiply-bonded silicon compounds, Bob is also active as a lay minister of the Prairie Unitarian Society of Madison and is on the National Board and Vice-President of Zero Population Growth, Inc.

Howard E. Zimmerman presented one of the Plenary Lectures at a symposium in honor of Harry Gunning's retirement at the Annual Canadian Institute of Chemistry Meeting in Toronto in June, 1982. In April, he traveled to England to give a Plenary Lecture at the Annual Royal Institute of Chemistry Congress in Lancaster, England. Other lectures he gave while in England include Colloquia at Oxford and Cambridge Universities, and the concluding lecture at the Annual Postgraduate Seminar given by English photochemical graduate students in London.

Hyuk Yu visited the Korea Research Institute of Chemical Technology in Daejeon, Korea for three weeks in June. Hyuk has also presented lectures during the year at University of Utah, Stanford, and Eastman Kodak.

Chem Dems

(Continued from page 1)

as visiting faculty and project assistants).

Glen E. Dirreen, PhD '72, Director of Gen. Chem. Labs since '72,

George L. Gilbert, PhD '63 (Mich. State) who is Prof. of Chem. at Denison, and was Visiting Prof. at UW in '79,

Frederick H. Juergens, MA '61 (UW School of Ed.), Lecture Demonstrator in the UW Gen. Chem. Program since '77,

E. Philip Page, PhD '73 (Johns Hopkins in English), Project Associate who is doing editorial work,

Richard W. Ramette, PhD '54 (Minnesota), who is Prof. of Chem. at Carleton and has been Visiting Prof. at UW several times.

Rodney Schreiner, PhD '81, Project Assoc. and Lecturer in Chem., 81-84,

Earle D. Scott, PhD '52 (Illinois), Prof. of Chem., Ripon College and Vis. Prof. at UW, '80-82,

Mary Ellen Testen, MS '82, Project Asst., '80-82,

Lloyd G. Williams, PhD '76, Asst. Prof. of Chem., Hampshire College; Project Asst. and Lecturer, UW, '73-78.

Volume one is dedicated by the author "To Gil Haight" (Prof. of Chem. at Illinois) "who taught me the art of presenting demonstrations, and to Odell 'Tally' Taliaferro, who expanded my knowledge of demonstrations." Tally will be remembered to students in 1944 and for the next 30 years as the department's first lecture demonstrator. He was hired by Prof. J. H. Walton to provide an ongoing employee whose full-time responsibility was for maintenance of demonstration material as well as setting up lectures. Prior to '44, lectures were set up by one of the TAs assigned to that duty by a professor teaching the course.

Tally developed the job into a smooth operation. Since he set up demonstrations for a rapidly increasing number of lectures, he soon needed help. At first he was provided with part-time student help but this ultimately proved impractical and Vince Genna became his full-time associate.

When Tally retired in '74 his first replacement proved inadequate to the task. He was succeeded in '77 by Fred Juergens who had extensive experience in high school teaching and in industry. Fred continues his work as demonstrator, with the able assistance of Vince Genna. When Tally retired he was profiled in BC 21. He continues to live in Madison with his wife Hazel at 602 Sheldon St. They both continue their efforts to make this world a better one than Tally knew as a boy in Tennessee. Bassam's dedication will be approved by Badger Chemists who knew Tally, either in person or by legend.

The volume under review contains an introduction explaining Shakhashiri's views on the effective use of demonstrations to enhance understanding of chemistry, and four chapters entitled: Thermochemistry, Chemiluminescence, Polymers, and Color and Equilibria of Metal Ion Precipitates and Complexes.

Each of these chapters contains an introduction to and general information about the topic, followed by eleven to forty-five demonstrations, each illustrating a particular aspect of the topic. Future volumes are projected to include demonstrations about: acids and bases, gas laws, properties of solutions, colloids, clock reactions, electrochemistry, oscillating reactions, and others.

The goal of the author is to provide "...teachers of chemistry at all educational levels with detailed instructions and background information for using chemical demonstrations in the classroom and public lectures." For each demonstration, the format is: a brief description of the phenomena to be observed, a complete list of necessary materials, a detailed step-by-step procedure, often with diagrams of complex apparatus, a discussion of all hazards associated with the materials used, recommendations for disposal of spent materials according to the most recent safety information available, and a discussion of the chemical principles involved in the demonstration with chemical formulae, structures, equations, thermodynamic data, reproductions of spectra, formation constants, and so forth. Each demonstration is followed by references to the original literature, both for sources of data and for further reading.

Included in volume one are such old UW warhorses as: Thermite reaction, hydrogen-oxygen cannon, decomposition of nitrogen triiodide, photochemical hydrogen-chlorine explosion, oxidation of luminol (chemiluminence), clock reactions, and preparation of nylon thread.

The author's goal is amply fulfilled. This volume represents a major contribution to the literature concerning chemical demonstrations. It contains "everything you always wanted to know about chemical demonstrations but were afraid to ask." No other publications present demonstrations in this comprehensive format. It is essentially self-contained: all the information necessary and useful to perform safely any of the demonstrations and to discuss them at any level, from elementary to graduate students, is available. Use of this volume will increase the ability of Badger Chemists, as well as others, to perform demonstrations which educate and entertain all varieties of audiences.

CHEM DEPT. FAVORS YOUTHFUL CHAIRMEN

The question was raised last fall regarding who was the youngest chairman upon taking office. The record says:

No.	Name	Year	Age	Years on Faculty
1.	W.W. Daniells	1880	40	12
2.	L. Kahlenberg	1907	37 + 6 mos.	12
3.	J.H. Mathews	1919	37 + 8 mos.	12
4.	F. Daniels	1952	63	39
5.	J. Ferry	1959	47	14
6.	I. Shain	1967	41	15
7.	J. Willard	1970	61	33
8.	R. Fenske	1972	43	11
9.	D. Evans	1977	38 + 3 mos.	11
10.	B. Trost	1980	39	15
11.	P. Certain	1982	39 + 9 mos.	12

We see that Louis Kahlenberg was youngest at the time of taking the chairmanship and is the only chairman to have held a foreign doctorate (Leipzig, '95, with Wilhelm Ostwald). Kahlenberg was deposed from the chairmanship as a result of the Palace Revolt in 1919 but continued on the faculty until his retirement in 1940. His successor, J. Howard Mathews, was second youngest when he took the chairmanship. He remained chairman for 33 years, six years longer than the first chairman.

Six of our chairmen were 40 or under upon taking the chair—the first three and the most recent three.

William Willard Daniells became chairman in 1880 when his post of Prof. of Agriculture and Chemistry was split into two chairs. The professorship of agriculture went to William A. Henry, a botanist, while the chemistry chair went to Daniells who had been heavily involved in teaching chemistry since coming to Wisconsin in 1868, but until 1874 had shared the chemistry classes with John W. Davies. At that time, Davies' chair of natural history was abandoned and he became the first professor of physics and astronomy. Daniells, a graduate of Michigan Agricultural College and the Lawrence Scientific School at Harvard, was the only chairman of chemistry to serve without a PhD. His Michigan alma mater granted him an honorary ScD in 1897.

Four of our chairmen held UW degrees: Kahlenberg, BS '92, MS '93; Mathews, BS '03, MA '05; Willard, PhD '35; Certain, PhD '69. Farrington Daniels was awarded an honorary ScD by the UW in '66, seven years after retirement. Three chairmen held Harvard PhDs (Mathews, '08; Daniels, '14; Evans, '64), and Willard was a Harvard BS '30. The others took doctorates at Stanford (Ferry, '35), Washington-Seattle (Shain, '52), Iowa State (Fenske, '61), and MIT (Trost, '65).

In Memoriam

Norbert Clement Barwasser, BA '27, MA '33, Moline, Illinois, in 1982.

Leland James Beckham, PhD '34 (McElvain), died in 1973. His death went unnoted in BC at that time since his name had not been in our records for at least a decade. Editor Schuette had a note in the '55 BC that he was chief of research at the nitrogen division of Allied Chemicals, Hopewell, Virginia. His name came to our attention when Richard Wanty of the Department of Chemistry and Geochemistry at Colorado School of Mines sought information about him. Beckham, who received his first degree in PE (Petroleum Engineer) at CSM in '30, left a bequest to his first alma mater and the school planned a commemorative ceremony on the tenth anniversary of his death. We were able to provide information about his Wisconsin days, including a copy of his thesis and the addresses of classmates Ray Houtz, Nels Minne, Frank Strong, Charles Winans, and Walter Zartman who took organic doctorates in '32 and '33.

Galo Wenceslao Blanco, PhD '22 (with Hawley of Forest Products Lab), died in Cleveland in January where he was retired from consulting but serving as "executive in residence" at Dyke College.

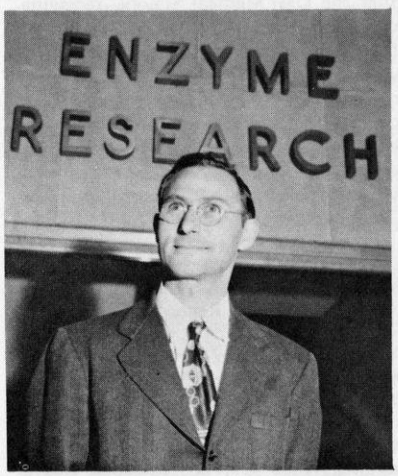
Vera J. Parke Brainerd, BA '16, died in Janesville in February.

Raymond F. Dvorak, 82, UW Band Director for 34 years, died last November at his Madison home. He had an important role in elevating college band music to an art form as he combined his musical skills, his love for band tradition and pageantry, and his courageous spirit to performances of the band at Camp Randall and on the concert stage. In 1948, he lost his right arm in a railroad accident but never faltered in continuing his career. He conducted with an artificial arm and was active in work with the handicapped. He helped organize the Wisconsin Rehabilitation Association and served as its first president. In 1955, he was named Wisconsin's Handicapped Man of the Year. He was associated with John Philip Sousa in his early years and particularly enjoyed directing Sousa marches.

Lynn Fontanne, 95, died on July 31, 1983, at her home, Ten Chimneys, near Genesee Depot, Wisconsin. She and her husband, Alfred Lunt, were famed in the theatrical world as a talented and devoted comedy team who rarely appeared alone after their marriage in 1922. They first played together on Broadway in *Sweet Nell of Old Drury.* Their first major hit together was in Molnar's *The Guardsman* in '24. This was followed by more than 20 others, including: *Elizabeth the Queen, Reunion in Vienna, Idiot's Delight, There Shall Be No Night, Amphytrion 38, Design for Living.* Although they performed in the movie version of *The Guardsman,* they were unhappy with their cinema experience and acted in no other films. Late in life they produced *The Magnificent Yankee,* a biographical portrayal of the elderly Justice Oliver Wendell Holmes and his wife, for public TV. Lunt and Fontanne performed *Taming of the Shrew* at the opening of the Union Theater in Madison in 1939 and appeared in the theater later in *O Mistress Mine* and *I Know My Love.* The latter opened in Madison in '49. In 1941 the University honored both Lunt and Fontanne with doctorate degrees. Alfred Lunt was born in Milwaukee, Lynn Fontanne in England. Very early in their joint careers they spent their summer vacations at Lunt's mother's home at Genessee Depot near Waukesha. That home was gradually developed over the years into a retreat from Broadway during the off-season. It became a permanent retirement home in 1960. They loved their 110-acre farm which they developed as a natural area. They loved gardening and Alfred was a gourmet cook.

Eugene Carl Gaenslen, BS '26, Laguna Hills, California, last May.

Ferdinand O. Grassl, BS '51, MD '53, died in April in River Falls, WI.



David E. Green, 72, Professor of Enzyme Chemistry and Co-Director of the UW Institute of Enzyme Research from 1948 to 1980, died on July 8, 1983. Born in New York City, he took a BA at New York University in '30, a PhD in '34 at Cambridge University where he was a student of the famed F. Gowland Hopkins. He continued as Belt Memorial Senior Fellow in Hopkins' lab until '38 when he became a research fellow at Harvard. In '41 he joined the biochem faculty at Columbia. When the UW Institute of Enzyme Research was created he became its first director until the activities were separated into autonomous teams. He and his research team concentrated on the structure and function of mitochondria, and of cellular membranes and energy transductions in biological systems. Besides being author of several hundred papers, he was author of three books and editor of five others on various aspects of biochemistry. In 1946 he received the Paul Lewis Laboratory Award of the ACS. He was a member of the National Academy of Sciences and of the American Academy of Arts and Science.

Gerald A. Harlow, PhD '51 (Schuette), died at Twain Harte, California, on June 13, 1983. He suffered an apparent heart attack while building a vacation cabin. Gerry spent 30 years with Shell Development. His graduate work was done following service in the U.S. Army Air Corps during World War II. Gerry is survived by his ex-wife Helen, two children, and three grandchildren. All in California. Stephen Nicksic, PhD '52, officiated at the funeral services. He was also a grad student in Professor Schuette's group.

J. Frederick Hazel, PhD '31, died on March 10, 1983. Born in Carrolton, MO in 1905 he took an AB at Kansas in '28 before coming to Wisconsin. He was a TA while completing his research with J. H. Walton, then served as an instructor in the department until '37 when he joined the chemistry faculty at U. of Pennsylvania. He retired at Penn in '76. His research interests were in the colloid chemistry of inorganic systems, particularly silicates and phosphates.

Charles Heidelberger, 62, died in Pasadena last winter. He was a member of the McArdle Lab for Cancer Research from '48 until '76 and was well known for the introduction of 5-fluorouracil as a chemotherapeutic agent in the treatment of cancer. He was the son of Michael Heidelberger, renowned immunochemist at the Columbia Medical School.

Mark Ingraham, 86, third Dean of the UW College of Letters and Science from '42 to '61, died last November. He left a remarkable impact on the University as a member of the mathematics faculty, as dean, but more important, as a university citizen combining breadth and depth of scholarship with wisdom in leading his peers to abandon parochial goals in favor of policies leading to sound growth of the institution. Born in Brooklyn, he was an enthusiastic supporter of the Brooklyn Dodgers. He joined the UW math faculty two years after receiving his undergraduate degree from Cornell in 1917 and immediately sunk deep roots into the UW community. He took a masters at the UW in '21 and his doctorate at Chicago in '24. He later received honorary doctorates from several schools, including

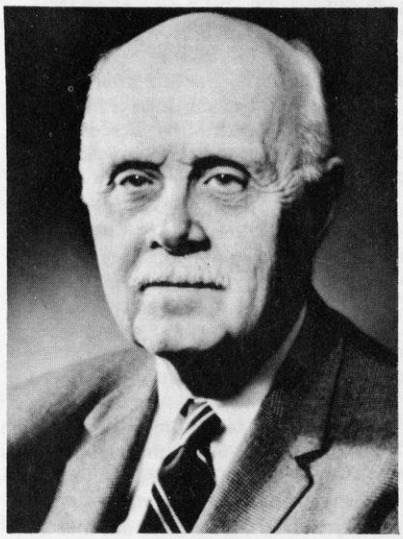
(Continued on page 8, col. 1)

In Memoriam

(Continued from page 7)

Edgewood College in Madison (where during his retirement years, he guided a curricular revision), Lawrence University in Appleton, Ripon College, and the UW. He was president of the American Association of University Professors from '38 to '40.

Ingraham was truly a Renaissance Man, one who had a mastery of mathematics and the sciences, but who also possessed depth of understanding of the humanistic and social areas. As a dean, he was masterful in guiding the growth of traditional disciplines and in stimulating the establishment of new ones, provided they added



a significant dimension to the university's program. He led the L & S College with a firm hand, asked searching questions of those who wanted changes, and supported those changes which improved the quality of the college.

Although a mathematician, he was a person of broad intellectual interests who was as comfortable with historians, philosophers, economists, and linguists as with mathematicians and scientists. He was well-informed on many subjects and had a keen, logical mind which made him well suited for a deanship of a liberal arts college.

He married Katherine Ely in 1924 and enjoyed a reserved and devoted life with her up to the time of her death ten months before his own. They are survived by a daughter, Winifred Grady of Beaver Dam, a son, Edward C. of Okemos, Michigan, and by six grandchildren.

Mary Ann Jerse, 28, the wife of chemistry grad student Joseph M. O'Connor, was shot in her University Hospital office by a psychiatric patient last January. Despite hours of effort by surgeons to save her life, she succumbed to the chest wounds later that day. Her attacker shot himself fatally immediately after shooting her. Born in Cleveland, Dr. Jerse was a graduate of John Carroll University where she was a student of Ernest Spittler, PD 77-78 (Ihde). She received her MD at St. Louis University Medical School in '81 and was a third-year resident in psychiatry at UW Hospital and Clinics where she was looked upon by her superiors as a talented psychiatrist with a brilliant future ahead of her. We extend our deepest sympathy to Joe O'Connor who is a student of Prof. Casey.

George O. Johnson, PhD '31 (Adkins), died March 6, 1983, at Williams Bay, Wisconsin, at age 85, according to a note received from Nels Minne, PhD '32. He was on the staff of Culver Military Academy in Indiana from '31 until retirement in '63. He moved from Culver to Williams Bay in '78. He is survived by his wife, a daughter, a son, and three grandchildren.

Robert O. Johnson, BS '44, died of cancer on July 30, 1982, at age 61 in Madison where he was professor of surgery in the Medical School. Born in Eau Claire, he took a chem major at the UW, completing his thesis under Prof. N. F. Hall. At that time he was offered a position at the Met Lab in Chicago. However, he had held a cancer fellowship under Harold P. Rusch, BA '31, MD '33, director of the McArdle Lab, and he chose to enter the UW Medical School, receiving his MD in '48. After an internship in Philadelphia, he spent seven years in North Dakota in family practice. Returning to the UW as a resident in surgery, he joined the faculty upon completion of that period of study. He became Director of Clinical Oncology in 1970 and was Assoc. Director of the Wisconsin Clinical Cancer Center at the time of his death.

Edward C. Kwasniewski, BS '32, died in West Seneca, New York, at a date not available to Alumni Records.

Keith Glen Lieding, BS '49 (MD '58 MI), Ann Arbor in January.

A letter of September 10 from his son informs us of the death of **Marion B. Matlack,** PhD '29. Dr. Matlack was a student of Edward Kremers, Director of the Pharmacy School at that time. Kremers held a joint appointment with Chemistry and a number of his students in pharmaceutical chemistry took their PhDs in the Chemistry Department at that time.

His son, Albert S. has a PhD '50, in chemistry from U of Minnesota where he was a student of C. Frederick Koelsch, PhD '31 (McElvain), and has been with Hercules. Marion B. was with General Foods briefly, then held a succession of positions in the USDA. He retired from the agricultural research service in '63.

Clifford Cyrille Meloche, BA '10, MA '11, PhD '14, died in a Fort Atkinson hospital on September 6, 1983 at age 97. An elder brother, of our own late Prof. V. W. Meloche, Clifford took three degrees at Wisconsin, doing research under the famed Victor Lenher who was a leader in unravelling the chemistry of selenium and tellurium. Except for a year as instructor at Penn State, and service in the Ordinance Dept., U.S. Army in 1918, he spent his active career at University of Michigan where he became professor of analytical chemistry. He was interested in the chemistry of cerium and cesium. His later retirement years were spent in a home in Watertown where he was close to Mel and Patty. C.C. was born in Port Huron, MI, but the family moved to Madison in 1905 to take advantage of the UW educational opportunities. The four Meloche children graduated from the university and both boys went on to PhDs with Lenher. Gladys took a BA in '16, then turned to home ec and became a clothing specialist in the UW-Extension. C.C. was preceded in death by his two sisters and V.W. whose death was covered in BC 28.

Stephen Barr Miller, BA '29, Dearborn Heights, Michigan, in 1982.

J. Walter Nelson, BS '38, MS '42, died on October 5, 1982, according to a note from his widow in Lansing, Illinois.

Laura Leone Oyster, MA '20 (Adkins), died in Ripon in February. She had been a faculty member at Ripon College for many years.

Edwin O. Rosten, 72, died on April 26. Rosten was associated with the staff of the Wisconsin Alumni Research Foundation for 42 years and retired as Managing Director in 1976. He received his BA in Business Accounting from the UW in '33.

Jean Schuette, the widow of Prof. H. A. Schuette, died at the Attic Angels Nursing Home on April 7, 1983 at age 90. She was the daughter of John and Marion Frederickson of Madison. Her father was a prominent Madison contractor. She graduated from the UW in '14 and married Dr. Schuette in 1918. He preceded her in death on February 4, 1978. The Schuettes had three children: Helene, who is Mrs. F. Chandler Young; John F. of Bettendorf, Iowa; and Henry G. of San Diego. There are six grandchildren and four great grandchildren. Mrs. Schuette was active in University League, the Better Broadcasting Council, and Attic Angels. Her beautiful home overlooking Maple Bluff will be remembered by many Badger Chemists as the setting for the departmental tea for faculty and grad students on numerous occasions before the department became too large to meet in faculty homes.

Ragnhild Synnove Skaar, BA '20, La Crosse in 1979.

(Continued on page 10, col. 1)

OVERVIEW '83

The year 1982-83 saw no relief from tight budgets, large enrollments, business problems, academic problems, social problems, deterioration of facilities, et cetera ad infinitum.

State of Wisconsin

Nothing spectacular to report that makes Wisconsin unique from other states. It suffers from economic problems, but not as severely as some of its neighboring states, the sales tax was increased to 5% with food and prescription drugs still exempt, the income tax went up as the result of a surtax. Unemployment is in the 11% range. Many communities are facing problems with reference to disposal of solid waste, and central Wisconsin, where extensive irrigation is practiced, has sections where groundwater is being contaminated with pesticides.

The tavern keepers and brewers are fighting to hold the minimum drinking age at 18 in the face of a strong movement to raise it to 19 or even 21. Advocates of higher minima cite the large number of highway accidents and deaths involving youthful drivers under the influence. The problem is exacerbated by out-of-state youth with higher minima, coming to taverns along the Wisconsin border, and returning to their home state in an inebriated condition, thus taking their problems elsewhere. Governor Earl resists a change although he now appears willing to go to age 19.

On the brighter side, some of Wisconsin's surface waters show signs of improvement as industries, such as the paper and dairy industries, are improving the condition of their effluent wastes. However, agricultural runoff still carries with it unsatisfactory levels of chemical fertilizers and, in areas of commercial animal fattening, animal wastes.

Wisconsin's ban on high phosphate detergents was allowed to lapse two years ago. There is renewed pressure on the legislature to restore the ban, pressure being vigorously resisted by the detergent industry. Prof. West was active in supporting legislation for the original ban and continues his support for restoration.

The fastest growing sport in Wisconsin is now dung flinging. The 9th Annual State Cow Chip Throwing Contest was held this year at Sauk Prairie. The men's champion had a winning toss of 165 ft., 1 inch; the women's champ, a five-time state winner, threw 108 ft., 7 in. There is an art to throwing—involving technique as well as proper selection of chips. The best are heavy, solid, and about 6" in diameter. Aerodynamics is very important; the best throwers use an arm motion which causes the chip to sail. Contestants are allowed two throws, the longest being counted. Chips come from a farm west of Sauk City where the cows are trained to walk forward at a steady pace while defecating, thus assuring chips of uniform thickness and diameter. The chips are gathered after drying in the sun and approved for the contest by the official Meadow Muffin Committee. Spectators are at some risk since fickle winds frequently blow flying fragments across the side markers. Winners receive a State Championship Plaque and are eligible to compete in the World Cow Chip Throw next April in Beaver, Oklahoma.

City of Madison

Madison has a new mayor. He is F. Joseph Sensenbrenner who won election in spring '83 after Joel L. Skornicka, mayor since '79, chose not to run for a third term. Skornicka has returned to the UW where he holds a position involving fundraising. Sensenbrenner, whose grandfather Frank was a major officer in the Kimberly-Clark Corporation and served on the UW Board of Regents, and whose cousin James represents Wisconsin's 3rd District in the House of Representatives, is a maverick. He describes himself as the lone Democrat in a family long noted for its Republicanism. He defeated Robert (Toby) Reynolds in the '83 mayoral contest. Reynolds, the son of a former UW history professor, had greater name-recognition in view of service on the city council, chairmanship of the Dane County Democratic Party, and senior partnership in his law firm. The voters were fortunate in the spring election in having to choose between two well-qualified candidates. Sensenbrenner is also a lawyer who held responsible positions on Governor Lucey's staff, then served in the State Department of Justice where he advanced to deputy attorney general in '81. (In case anyone is bothered that both candidates are Democrats, this is possible in Madison where the mayoral election is "non-partisan.")

While Madison continues to be troubled by excessive crime and misbehavior, there may be improvement in sight. The Dangle Lounge on Main Street is closed and the police are bearing down on solicitation in the Capitol Square areas. Whether the efforts prove effective or whether they merely result in diffusion elsewhere remains to be seen. At any rate, citizen groups have been creating pressures on city fathers and police for action.

Traffic in the campus area has been restored to a state of confusion. The city has undertaken a project to widen and repave University Avenue between Park Street and the entrance to Campus Drive (just beyond the Biochem Building following the railroad track to University Bay Drive). This is a major project which will not be finished until the end of the football season! It involves excavation for improvement of underground utilities and removal of the buried ties of the street car lines which served west Madison from 1890 to 1940. Traffic is rerouted westward past the Chem Building on Johnson Street and eastward along Gorham Street. The part of University Avenue east of Park Street is scheduled for replacement next summer. Presently, access to the campus is limited to Park Street, Charter Street, and entrance from the west on Observatory Drive.

The grocery business in Madison is in a state of turmoil. Philip Woodman, a Janesville grocer, opened a 78,000 square foot warehouse store on the east side in 1978. He bought food in huge volume at low prices, provided virtually no service beyond opening cartons, and installed electronic price recorders at check-out counters. His low prices attracted a booming clientele. He is constructing a new facility on the west side. Cub Foods has operated a similar store on the west side and is looking for an east side site. Meanwhile, such traditional supermarkets as Kohls, Sentry, Eagle, and IGA are struggling for survival. A&P closed its three Madison stores in '80 and the owners of IGA have 2 of their 4 Madison stores up for sale. Eagle is closing an east side store but plans no other closings. Kohls has opened a new store which seeks to cut costs of grocery operations by also selling a broad variety of other consumer goods. Meanwhile, the owner of the Kohls grocery stores is said to be negotiating with A&P which appears to be interested in re-entering the Wisconsin market.

Bowman Dairy Co. has been sold to Golden Guernsey Dairy, a Milwaukee-based cooperative. The Bowman operation, with 65 employees, remains in Madison as a division of G.G. and will continue to bottle milk and orange juice. The 92 area farmers who supply Bowman with milk become members of the coop and will share profits with 1,200 other members of G.G. The parent coop has offices in Milwaukee with bottling plants in Waukesha and Wausau, and ice cream, butter, and milk powder plants elsewhere in the state. It markets milk in Wisconsin and Illinois and butter and cheese throughout the Midwest. Badger Chemists who had small children in Madison may remember the Bowman milking parlor on Fish Hatchery Road, an area now covered with apartments and condos.

Rayovac, which has been a struggling battery maker in recent years as a subsidiary of Inco, Ltd., has come under new ownership as the result of sale to three Connecticut businessmen. The new President, Thomas Pyle, was a student in the UW business school where he took a masters in '63. He sees strong potential for revitalization of the firm which once

(Continued on page 10, col. 1)

In Memoriam

(Continued from page 9)

Marvin W. Skougstad, BS '39, PhD '49 (Meloche), died in Golden, CO, in April. For many years he was a chemist-hydrologist with the U.S. Geological Survey in Colorado where he developed methods for trace elements and heavy metals in natural waters, applied emission spectroscopy to water analysis, and contributed to the standardization of methods of examining water. He was active in committee D-19 on water in the American Society of Testing and Materials. In '50 he received the Society's Award of Merit. Between '49 and '58 he was on the faculty of St. Olaf College.

Bruno Stein, BS '22, MS '23, died in Madison on March 24, 1983. After completing his masters with Daniels he was employed by the Marschall Dairy Lab in Madison, ultimately becoming vice president. His son, Jolyon A., BS '50 (PhD '54 in Food Industries) is now Technical Director, Grocery Products Company in Minneapolis. From '54 to '68 Jolyon was with research and development at Pillsbury.

Ralph W. Thomas, MA '29, PhD '31 (Schuette), died January 6, 1981, per Alumni Records November 26, 1982. Last address: Waukesha, Wisconsin.

Allen R. Willey, PhD '37 (Walton), died in 1978. Born in Salt Lake City in 1910, he took two degrees at Utah before coming to Wisconsin. He spent his career with American Can Company in Barrington, Illinois, where he carried out research on mechanism of corrosion in tin plate.

Isabella Anne Gamble Winchester, BA '15, died January 27, 1983, in Norwalk, Connecticut, where she resided for many years and was associated with R. C. Bigelow, Inc. Roger Festa of the University of Connecticut, who reported the death, also reports that the Bigelow Company is not a chemical firm but an importer of fine teas whose most famous product is "Constant Comment," a spice-citrus brand marketed nationally.

Norman R. Wussow, BS '34, is reported deceased, but we have no further information.

Overview

(Continued from page 9)

employed over 2,000 in Wisconsin but was down to 1,300 at the time of change of ownership. The Madison plant employs about 500.

Research Products Corp., which has been an east side manufacturer of air filters, humidifiers, and solar energy systems since '38, is carrying out a $300,000 remodeling project following a decision to remain in Madison. It occupies the factory on East Main which was built in 1917 to house the Burgess Battery Corp. and the Burgess Labs. RPC has about 265 employees.

American Scientific Labs closed its Madison plant in May following transfer of its operations to a Burns-Biotech facility in Omaha. About 75 jobs are lost in Madison.

There has been little additional activity in bringing to Madison new industries involved in genetic engineering beyond that reported in previous newsletters. In fact, further developments of even those companies appears to have been placed on hold.

Bjorksten Research Labs on Fish Hatchery Road, just south of Madison in the newly incorporated city of Fitchburg, is involved in studies aimed at the production of a device which would permit manufacture in space where zero gravity would present advantages. Such manufacture might result in production of more perfect ball bearings, or in the production of drugs in the absence of gravity which distorts crystal formation. Bjorksten scientists seek to develop a containerless positioning method which uses air to move objects into desired positions. Air, blowing through funnels, is computer controlled to hold objects where desired. Bjorksten Labs was brought to Madison by Johann Bjorksten in 1948 after he had founded the lab in Chicago four years earlier. Born in Finland where he took a PhD in protein chem. at Helsinki, he became an Int. Ed. Board fellow at Minnesota in '31. After holding several chemical positions in industry he organized his own consulting laboratory which has pursued a variety of problems in synthetic resins and plastics, paper and fibrous materials, coatings, proteins, and chemical gerontology. Now president of the lab is physical chemist Stanley A. Dunn, who came to Madison in '59 and is one of the leaders in the space science research program because of his longtime interest in materials science.

University of Wisconsin System

Friends of the university were optimistic that change of the governorship in 1983 would introduce better days for the institution which regressed badly during the Dreyfus administration (1979-83). The hoped-for new era has been a disappointment. Although Anthony Earl mounted a political campaign which sounded friendly to the university, his performance in the governorship has produced little to halt deterioration, while initiating some new holding actions.

While Governor Earl signed a budget allocating a $1.3 billion operating budget for 1983-84, the largest in UW history, the budget is still short of regaining ground lost in the past five years in library books and research facilities, or even in maintenance of physical plant and salaries.

Perhaps most devastating is the failure to provide funds for faculty pay increases in the '83-84 academic year except for a half-million emergency fund to be used selectively to help retain faculty "stars" who are easily visible and apt to be picked off by other universities searching for established scholars. The state action thus denies pay increases for 7,650 of the system's 8,000 professors.

It was the decision of administration to use the Star Fund mainly for raises to faculty recommended for promotions, plus selected faculty considered in the raid-bait category. Of the star fund appropriation, nearly half went to Madison. It was used to give raises to 76 professors. While the star fund was available for the purposes of holding stars it has also created great unhappiness among the near-stars, and those who faithfully man the trenches, since they feel strongly that they too are contributing to the ongoing success of the university. The bait of another equal star fund next year, plus a promised 3.48% general raise has done little to alleviate the bitterness.

During the past year, the Madison faculty ranked in seventh position with respect to salaries in the Big Ten; the present action is likely to place UW-Madison salaries in tenth position. In remarks to the Regents on July 14, President O'Neil pointed out that Wisconsin taxpayers are actually picking up less than $535 million, about 42 percent of the total $1.3 billion operations budget. The remainder comes from tuition, operating income, and government and private research grants.

Students attending the UW this fall faced a 6.1 percent tuition increase for the 1983-84 year, as follows:

	Resident	Non-Resident
For Madison and Milwaukee:		
Undergrads	$1,065	$3,945
Grads & Law	1,542	$4,939
Medical	5,662	8,275
Veterinary	5,148	7,524
For other four-year campuses:		
Undergrads	886	3,283
For two-year centers:		
Undergrads	836	3,168

Residents pay about 27 percent of instructional costs. Non-resident undergrads pay 100%; grads & law, 86%; medical & veterinary, about 40%. However, a large number of grads are on TA or RA appointments and are charged the resident rate.

(Continued on page 11, col. 1)

Overview

(Continued from page 10)

UW-Madison

Despite the increased tuition, 43,075 students are registered in Madison this fall, an increase of 800 over a year ago. A decline had been projected, not only because of the economy, but because of the ongoing decline in numbers in the college age group. Enrollment in the Engineering College and Business School was closed early because of staffing problems. Faculty members in those schools are able to earn so much more in industry that teaching has lost its attractiveness.

Living costs on campus have also gone up. A small double dorm room now costs $1,058, a large single is $1,414. The contract meal plan ranges from $820 a semester to $1,450 depending on number of meals covered.

According to CEN 7-25-83, p. 63, UW-Madison ranked 14th among major universities in spending on chemical research and development in 1981, at a level of $4,122,000. In 1978 the UW had ranked 3rd (behind MIT and Cal Tech) at a level of $5,149,000. In '78 the UW led the Big Ten, in '81 they were outspent by Illinois, Purdue, Minnesota, and Chicago in the Midwest. This is evidence of the deterioration taking place in Madison even though research is primarily supported by outside gifts and grants rather than by state input.

A recent report of the Wisconsin Department of Natural Resources revealed that state agencies are among the worst offenders with respect to air pollution. An especially serious offender is the University's Charter Street Heating Plant. The DNR mandated immediate remedial action after the federal EPA cited the plant for unacceptable emissions.

Alumni dating from the twenties and thirties will recall the University Avenue Heating Plant of that day as a prime polluter. Costs were held down by use of cheap Illinois soft coal, high in volatiles and sulfur. The smokestack belched black smoke almost continuously. That heating plant, built in 1908 and expanded several times, went on standby basis after construction of the Charter Street Heating Station in 1959 (one block south of the Daniels-Mathews Chemistry Building).

The Charter Street Station was an immediate disaster. The university had bought a World War II surplus plant from American Motors and transfered the furnaces to the new Charter Street Plant. The furnaces spewed black smoke from the beginning and despite years of fine tuning, the electrostatic precipitators never attained full reliability. At one time, the university planned to convert to gas fired furnaces and a natural gas line was laid while gas-fired furnaces were added. However, supplies and costs blocked complete conversion and the plant still uses substantial amounts of soft coal.

The new DNR order is forcing the UW to allocate $17 million to emission reduction during the next four years. A permanent solution in the form of a "baghouse" to remove particulates is being planned. This, together with utilization of 25 percent natural gas, is hoped will bring emissions within EPA standards. Attack on the particulate problem was delayed two years when former Governor Lee Dreyfus line-vetoed the state's entire budget for capital building in 1981. Still unresolved is the anticipated future problem of reducing sulfur oxide emissions.

A court case brought against UW-Madison by the *Capital Times* in 1979 was finally settled last April in favor of the newspaper by a Circuit Court judge. The issue arose when a reporter requested access to college reports on outside activities of faculty members. Chancellor Shain ordered his deans to deny access on the grounds that they represented confidential personnel matters. Such reports are required of faculty members who receive income for consulting, participation in business ventures, and other activities which might involve interference with legitimate teaching and research obligations.

The *Capital Times* brought suit against the university and 11 deans to force disclosure. Attorney General Bronson LaFollette determined that the university's case lacked merit and refused to supply attorneys from his office for the university's defense, forcing the university to hire lawyers from the private sector. Dane County District Attorney Hal Harlowe also entered the case a a friend of the court, filing a brief in behalf of the *Cap Times,* arguing that the request in no way required disclosure of political affiliation or any other matters than "gainful activities of an extensive and recurring nature by people who get these jobs because they are cloaked in the respectability of a public university."

Judge Pekowsky ruled, in his decision, that the UW arguments were outweighed by the public's right to know the nature and extent of outside activities of faculty members. Further, he held the public is interested in knowing the faculty is free from burdensome non-scholastic endeavors, pointing out that "no public interest has ever been harmed by openness and candor, but many have been destroyed by secrecy." Although the university administration considered appealing the decision, no such action was taken and the records have been opened.

Department of Chemistry

The departmental faculty increases by one with the appointment of James Tobin in the analytical division. This follows the loss of 2 full profs a year ago. There were no promotions or retirements this year.

The number of entering grad students declined again this fall, there being only 64 entrants. The graduations in the past year also declined from a year ago but, since number of graduates fluctuates wildly, it is difficult to consider the decline a trend. Demand for introductory courses remains high. Some 200 students were turned away because locker space was no longer available. (Does this mean we will soon go back to the Rabbit Hutches of the Post WWII period?)

Remodeling

The Daniels-Mathews Chemistry Building is undergoing an extensive remodeling at present. This is necessitated by a combination of deferred maintenance, unsatisfactory performance of the ventilating system, changing research needs, and need for greater cost effectiveness in the heating-cooling facilities. The program, which was started early last summer, will not be completed until sometime next year. Meanwhile, the department functions with considerable inconvenience—workmen underfoot, excessive noise at times, leaking roofs as changes are being made. Removal of the Alumni Room ceiling to gain access to ducts has made the Lounge and Seminar Room unaavailable for the remainder of the year. These are used extensively for classes, grad exams, departmental faculty meetings, other meetings, retreats for studying, and social events.

The finished project will (1) increase the air-handling capacity of the ventilating system, (2) improve heating-cooling costs by addition of permanent double-glazed windows, (3) clean existing air filters. Four new exterior air shafts are being installed.

This 'n That...

(Continued from page 5)

ren in the UW. One majored in Interior Design, one in Math, two MDs, and one nurse. He reports that they visited Ambie and Barbara Nichols in Santa Rosa, CA last April where Ambie took them for a tour of the college where he was President for many years. Ray reports that they are heavily into square dancing and cross country skiing in the Wausau area where Ray taught at the Wausau Center for many years.

Raymond C. Buchta, PhD '70 (Evans), is now research associate, Petrochemicals Department at the Du Pont Experiment Station. He joined Du Pont fresh out of his PhD.

Laura and **Clifford Burg,** BS '37, report that they were happy over the comparative

(Continued on page 12, col. 1)

This 'n That...

(Continued from page 11)

absence of snow last winter in Appleton where Cliff enjoys ice fishing on Lake Winnebago. Laura will be remembered by Badger Chemists of the '30s as Laura Drescher, Departmental Secretary.

Ann Burgess, BS '64, is now a Lecturer in the Biology Core Curriculum and is thus actively across the street from the Chemistry Department.

Terry Burkhardt, PhD '74, who was formerly a staff chemist in the Chemical Sciences Lab, began an assignment with Exxon Chemical Company, Plastics Technology Division in Baytown where he works in the area of poly-propylene catalyst development.

Howard Burkett, PhD '42 (McElvain), although retired, continues to teach an organic course at De Pauw. He and Lucille drove west for a granddaughter's HS graduation in summer '82, flew to Connecticut for Thanksgiving with son David, had Christmas at the family farm with son Richard, and planned to drive to Florida thereafter to visit Lucille's parents and brother and their son Harvey who will be retiring from the Navy next year.

Joseph Calabrese, PhD '71, visited the department during the Christmas Holidays. He is in Central Research with Du Pont.

Corey Carlson, PhD '83 (West), is with Dorsey Labs in Lincoln, NE.

William Carnall, BS '50, PhD '54, reports that three from Willard's group — **John Miller,** PhD '71, **Myron Sauer,** PhD '58, and himself continue their activities in the chem division at Argonne. Bill gave some NATO summer school lectures on actinide and lanthanide chemistry in '82, co-organized a symposium on plutonium chemistry in the fall '82 ACS meeting, and was busy organizing a spring section on spectroscopy at the Rare Earth Conference.

Paul Carpenter, PhD '41 (Spielman), reflected on happy times he and Janice had as grad students. Paul is retired from industry for 7 years but is very busy as full-time Director of the Alcohol and Drug Abuse Council of Greater Baton Rouge. He finds the work both challenging and rewarding.

The highlight of '82 for **Norm** and Marje **Cash,** PD '73-74 (Ihde), was a trip to Hong Kong where daughter Karin was stationed at the time as a teacher of English in a missionary school.

William C. Child, Jr., PhD '55 (Daniels), who has been on the chem faculty at Carleton College since '56, is co-authoring, with his colleague Jerry Mohrig, a textbook of chem for non-majors.

Roger M. Christenson, BS '41, PhD '44 (Schuette), is Director of Research for the Coatings and Resins Div. of PPG Industries. He recently received a plaque and silver serving tray at a recognition dinner for being the first employee to receive over 100 patents for PPG. He spoke of **Marvis Hartman,** BS '63, bringing back greetings from Madison, of seeing **Stuart Gloyer,** PhD '39, frequently, and being visited by **Henry Vogel,** PhD '41, who is retired from PPG in Florida.

Sheldon Cohen, BS '56 (PhD Kansas '62), is chairman of the chemistry department at Washburn U. in Topeka, KS. Besides contributing extensively to innovations in the teaching laboratory, to creation of a TV chem course for liberal arts majors, to teaching institutes, he has been Editor of the *Register* of Phi Lambda Upsilon.

Ralph Conner, PhD '32 (Adkins), reports that as a result of his wife's surgery he has learned to cook. Her fine recovery he attributes to his cooking! Ralph reports that cooking is simply good old organic chemistry carried out with impure, non-uniform reagents using crude equipment, but is nevertheless interesting. He worries about whether Paul Schatz, incoming editor, can click his heels while jumping for joy on receiving a good contribution. (I assure you—Paul is a talented clicker—Ed.)

Don Cromer, PhD '51, has returned to Los Alamos after a year's leave for work in the Washington, DC, area. Son Tom teaches in Alabama at Huntsville.

Guido H. Daub, BS '44, PhD '49 (W.S. Johnson), and his wife, the former **Kay Powell,** MA '48, report that their eldest son Bill had a Dreyfus teacher-scholar grant in '82 at Harvey Mudd College. The youngest, John, is a post-doc with **Jerry Berson** at Yale. Betsy is at MIT working as a TA for **Bob Alberty.** Guido had been suffering from a severe cariomyopathy caused by a virus. He hoped to be back to the office by June '83.

Richard B. DeMallie, Jr., MS '61, has become Technical Associate, Film Technical Services Div., Eastman Kodak. He has been at Eastman since leaving the UW. In '63 he married **Marjorie M. Wilson,** BS '63. They have 3 children, the eldest now at Cornell.

L. Charles Dickinson, PhD '69, continues at U. Mass-Amherst where he works on electron spin crystallography of metallo-enzymes and collaborates with **James C. W. Chien,** PhD '54 (Willard), on electron diffraction of polyacetylene.

Edgar A. Dieman, MS '33, felt that Greek Tragecy-Act IV was in poor taste, lack of details making harmful interpretations possible. Better to say nothing. (The tragedy was discussed fully and objectively in 3 previous newsletters. The Editor felt that saying nothing might be interpreted as a coverup, hence chose to make a short factual statement of what happened, with the thought that preceding aspects of the case were quite generally known, not only through BC, but via the grapevine.)

David R. Dion, PhD '74 (Hirschfelder), enjoyed BC 29 but regretted missing 28 which dealt with Joe's retirement. (The missing issue was quickly sent.) Dave is a consultant to the Electric Power Research Inst. in Palo Alto where he is developing and testing computer models of fluid flow for them.

Edward B. Dismukes, PhD '53 (Alberty) is Senior Research Advisor in the Southern Research Inst. in Birmingham. Ed visited Madison on a snowy day in April after attending the ACS meeting in Seattle. Ed took an MS with Prof. King in '51 and

(Continued on page 13, col. 1)

TEACHING

Once again, the department is calling on visiting faculty and temporary appointments to assist in meeting instructional needs for undergrad enrollments. Among those performing such services are:

Richard N. Biagioni (BS Illinois, '74, PhD, California-Berkeley, '81), is serving as Lecturer in the freshman program. He has been at Wisconsin since '81 as a post-doc with Prof. Ellis where he is investigating photochemistry of uranyl phosphate derivatives.

Gene C. Hancock is appointed Lecturer in frosh chem for the first semester. He is a grad student of Prof. Fenske who came to the UW in '80, serving as TA in his first and RA thereafter. His undergrad work was done at Chicago.

Rodney Schreiner, MS '73, PhD '81, who served as a Lecturer in frosh chem last year has been reappointed for another year. Rodney was a TA in '71-73, when he completed an MS with Shakhashiri. In '74-76 he served as Project Asst. in Betsy Kean's departmental program for disadvantaged students and in '77-79 he was PA to Shakhashiri. The following two years were spent with Ellis as RA and saw completion of his doctorate in inorganic. Thereupon he spent another two years with Shakhashiri as a post doc working on the chemical demonstrations project. He took his BS in chem and math at Marquette in '71.

Victor J. Weibel, a grad student with Evans since '80 is also a Lecturer in frosh chem for the first semester. He served as a TA for three semesters before becoming a research asst.

Professor Dr. **Robert Weiss** will be responsible for one of the organic lectures. He is at the Institut für organische Chemie in the Universitat Erlangen-Nurnberg in West Germany.

This 'n That...

(Continued from page 12)

served as a TA for Bender in p. chem. lab. Not having been in Madison since graduation, Ed was favorably impressed despite the blustery weather.

Robert Doedens, PhD '65, writes from U. Cal-Irvine that they added another Badger to the staff. He is **William J. Evans,** BS '69.

Margaret Draeger, BA '70, MD '74, despite receiving a partial BC last December, sent her "financial injection for the crusty old Badger Chemist." She continues her work as an MD with the military in Germany where she reports the birth rate in military families is up by more than 30%, while there is no increase in delivery staff.

Carl Eggert, BS '31, enjoyed the pictures from the McElvain collection which were included in BC 29 and is happy that Wisconsin finally won a bowl game. He still follows Wisconsin sports, including the Packers and Milwaukee Bucks. He continues active in Boy Scout work and received his gold card last year for 50 years in the movement.

William D. Ehman, BS '52, MS '54, was named Distinguished Scientist of Kentucky for '82 by the Kentucky Academy of Sciences, given for 24 years of teaching and research at U. of Kentucky and for continued support of the Academy, according to a note from Mrs. Ehman.

Robert Epley, BS '69, reports that he is now with Bell Labs and lives in Wheaton, IL.

Luther Erickson, PhD '59 (Alberty), has returned to Grinnell College after a sabbatical spent at the UW. He recently sent some material on **Emil O. Ellingson,** PhD '13 (Kahlenberg), who was department head at St. Olaf College nearly 30 years. The Editor regrets that he failed to include Luther in his listing of St. Olaf grads who took doctorates at Wisconsin and suspects that there are others who should have been on his list on p. 12 of last year's BC but hasn't had time to check. Any Oles since '50 who are also Badgers, please speak up.

Jane Esser, BS 76, is practicing dentistry with her husband, James Amstadt, at Horicon, WI. After graduation she entered dental school at Minnesota. Despite leaving the chemistry field she writes, "I always enjoy reading about my chemistry professors."

Roger Festa, a friend of the dept., has left the U. of Connecticut and is now at Northeast Missouri State U. in Kirksville. He has been editor of the "Profiles in Chemistry" section of *J. Chem. Educ.* for several years.

Allen H. Filbey, BS '48, is director, petroleum chemicals research with Ethyl Corp. in Detroit.

Edmund H. Fitchett, BS '24, reported a vacation to end all vacations in '82 when he and Mrs. F. made a lengthy trip to the Pacific Northwest. They picked and ate home grown apricots and peaches, caught and ate salmon, and gathered oysters, crab, and shrimp, picked blueberries. (Lanky Ed must have put on some weight.) They also visited Great Falls where Ed analyzed ores 50 years ago, and visited brothers in Minnesota. The capitol dome was a welcome sight as they returned to their home on Lake Waubesa.

Erik Floor, BS '64, is a neurochemist studying mechanisms of neurotransmitter release in the brain in Cambridge, MA. Sends his best to Profs. Sorum, Cornwell, Vaughan.

E. Gordon Foster, BS '41, PhD '44, has been elevated to the rank of Fellow by the Am. Inst. of Chem. Engineers. Fellow status is granted only after 25 years of work in the field, with distinction. Gordon is senior Res. Assoc. at Shell Development in Houston. He has been involved in process design, including design of Shell's first plant for production of detergent alcohols and development of a process for recycling sulfuric acid and chlorobenzene sulfonic acid wastes.

Mary Freimanis, BS '71, writes from New Orleans, "continue to send."

Hans Werner Fruhauf, PD '72-73 (Zimmerman), reports that he was appointed Professor of Organic Chemistry at U. Duisburg in '80, just after completing his Habilitation. The university is a young institution and Dr. Fruhauf has been heavily involved in planning the new departmental building. He, his wife, and elder son were last in Madison when he gave a special seminar in '78. He writes that he and his wife thoroughly enjoyed their year in Madison, not only Howard's research group, but University Houses, Madison, and many happy memories.

Albert F. Fry, PhD '64, is one of the faithful in reporting annually. He is on the faculty at Connecticut Wesleyan.

Patrick G. Gallagher, BS '52, PhD '59 (King), was honored at the spring banquet of the American Ceramic Society by election as a Fellow. Pat is in Metallurgy and Ceramic R&D with Bell Labs. He received the Mettler Award of the North American Thermal Analysis Society in '76, the Du Pont Award of the Int. Confed. of Thermal Analysis in '82.

Robert J. Gander, BS '40, MS '42, (PhD '44 IL), of Whitehouse, NJ, protested when his BC had 17 pages missing.

(Continued on page 15, col. 3)

FACULTY RELATED NEWS

June L. Dahl, Associate Professor of Pharmacology and wife of Prof. Larry Dahl, has been elected president of the Wisconsin Chapter of Sigma Xi for 1982-83.

Olive Daniels, widow of Farrington, suffered a broken leg last winter which necessitated use of a walker but this did not stop her from spending a month at the Door County cabin last summer when four generations of her family, including four great grandchildren, came to help her celebrate her 91st birthday. She enjoys having grandson Chris Daniels nearby as a second year law student at the University. At Thanksgiving '82, he and three friends cooked and brought a turkey with all the trimmings to her apartment.

Marie Fisher, widow of Emory - former editor of BC, reports visiting the **Wm. Webbs,** PhD '49 (Meloche) in Louisville, MS, then driving with them to Stuart, VA for a visit with the **Walter Clarks,** PhD '49 (Holt). She also came to Madison to visit her 97-year-old mother.

Edward M. Kosower, who was a departmental faculty member '57-'61, was visiting professor at MIT in spring '83 and is holding a similar position at Berkeley this fall. Since leaving Wisconsin he has held professorial positions in the Chemistry Department at SUNY-Stony Brook. This position has been shared since '72 with Tel-Aviv University in Israel.

David Lemal, who was on the faculty in the '60s and is now at Dartmouth, writes that the Lemal's had a good year. "Our four happy, healthy, active and talented teenagers are a great source of delight to their parents." Dave regretted having to miss the Leermaker's Symposium a year ago.

Alex Kotch, who was Associate Chairman and Professor of Organic Chemistry during the Shain through Evans chairmanships, is now director of the Office of Research and Program Development at the University of North Dakota. He reports enjoying his new position since there is opportunity to interact with faculty from the entire campus—the School of Medicine, Arts and Humanities, as well as the sciences and engineering. In a note to Paul Schatz he extends congratulations and expects to be assured a full-page picture spread in each issue.

Dorothy Dana Walton, widow of J. H. Walton, reported last winter that New York City looked very festive through the holidays but she objected to starting Christmas decorations early in November. She finds being 90 not half as bad as it's supposed to be.

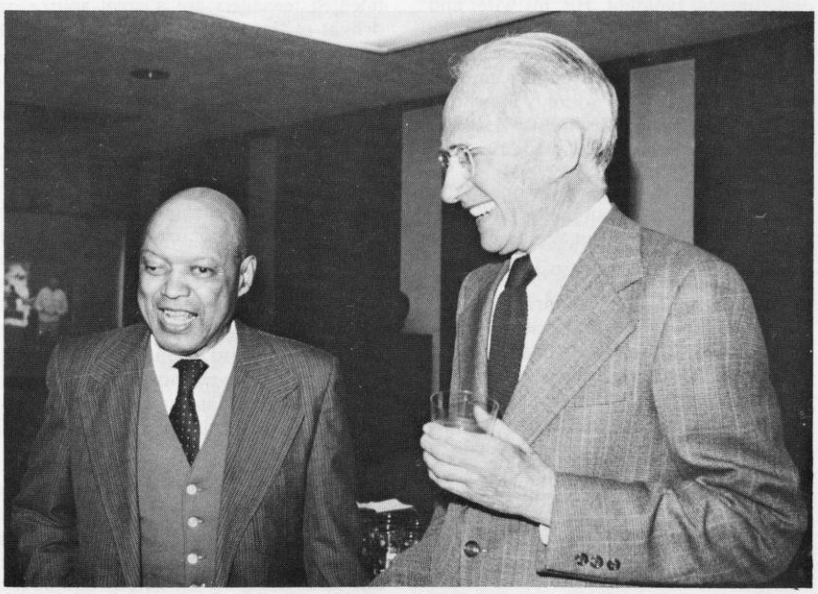
LECTURE DEMONSTRATION BOOK PUBLISHED

The long heralded series of books on lecture demonstrations is now in process of publication and volume one came off the presses last spring. Its appearance led to a christening in the Alumni Room to commemorate the occasion. Members of the University of Wisconsin Press joined members of the Chemistry Department in toasting the arrival of the first volume.

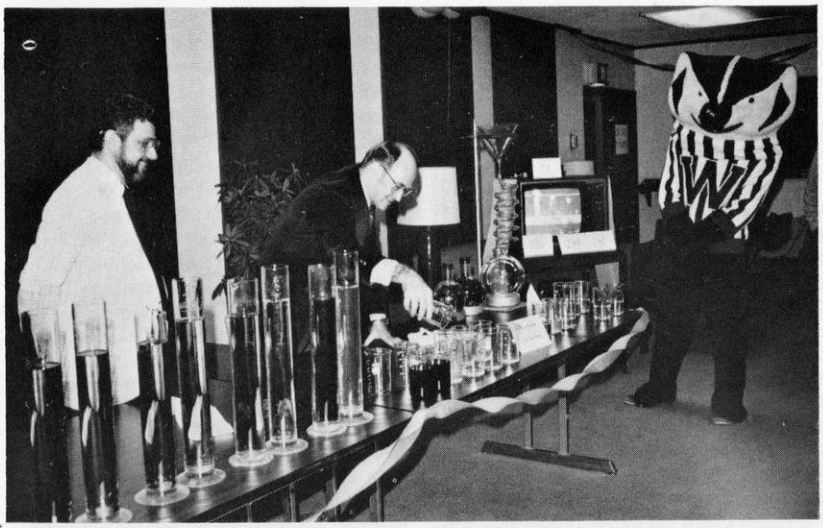
Copies of the book were available for examination. Several tables were covered with pieces of apparatus in which a variety of demonstrations were performed.

SCENES AT THE CHRISTENING

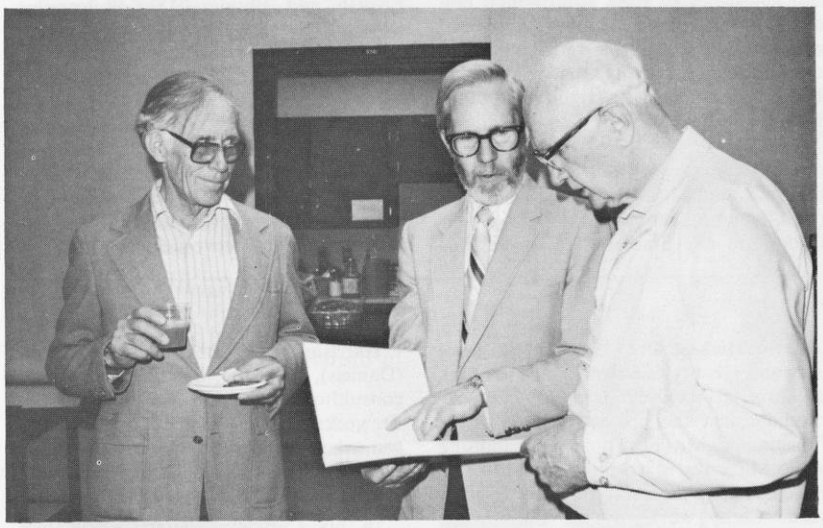
l. to r.: Bassam Z. Shakhashiri; John Willard; William Jensen (PhD '82, Lecturer, UW now at Rochester Tech); Donald Anderson, UW Press; Wm. Cary (chem teacher, James Madison Memorial High, Madison); Mrs. Cary; Bucky Badger; David Shaw (PhD '75, now at Madison Area Tech College); Mrs. Phil Page; Philip Page with glasses behind Mrs. Page; Kay Kilcoyne, general chem secretary; Carol Olsen and Robin Whittaker, both UW Press.



Tally and John Willard reminisce about the good old days of demonstrating.



Grad School Dean Robert M. Bock, PhD '52 (Alberty) takes a try at demonstrating while Bassam and Bucky observe critically.



Glen Dirreen (Director of General Chem Labs) expounds on demonstrations to Biochem Prof. Laurens Anderson, l., and Aaron Ihde, r.

Dean Bock, Joe Hirschfelder, Pat Puccio (Gen. Chem. Secretary), and Bob Levine (Director of Analytical Labs) around the punch.

This 'n That...

(Continued from page 13)

Timothy J. Gennrich, BS '74, has moved to a higher number on Peggy Lane in White Bear Lake, MN. No other news.

Steve George, PhD '77 (Hist. of Science), reports a change of address in Decatur where he is now Professor of Chemistry at Richmond Community College.

Paul Gold, MS '77 (Reich), reports that he "recently assisted his wife, a chemical engineer, in the isolation of a new natural product." The new substance, a reddish material weighing 7 lbs., 12 oz. was isolated on August 27, 1982, and was named Alexandra Pauline Gold. Mother and baby were both fine...(the father was OK, too).

Michael Goodrich, BS '66, of Durand, WI, sends no news but says, "...keep me on..."

John T. Goolsbey, BS '70, has been promoted to Senior Production Engineer and transferred to the Corpus Christi Division of Conoco's North American Production Department. He had spent over five years in Corporate Planning at corporate headquarters. John welcomes the opportunity for experience in operations.

Gary Gruenwald, PhD '66, has been plagued by an evil spirit who has, for 2 successive years, plucked his BC out of the mails and destroyed it. With this issue we are placing a hex on the evil spirit so Gary gets his issue at the same time as his associates at the Kansas School of Pharmacy.

Jay H. Gruskin, MS '78, has moved from Kearny, NJ, to East Newark. No other news.

Randolph J. Guschl, BS '69, went to Illinois for a PhD '73 under Ted Brown, thence to Du Pont's Exptl. Station where he is now supervising research in catalysis. Randolph married an Illinois girl and they now have 4 children to occupy their time.

Nathan Haese, PhD '81 (Woods), currently a postdoc at Chicago, sent a list of Badger Chemists whose activities he follows: **Susan Wollowitz,** PhD '80 (Reich), is a postdoc at Chicago,
Thomas G. Anderson, PhD '78 (Woods), research chemist with Amoco in Naperville, IL,
Thomas A. Dixon, PhD '77 (Woods), with Bell Labs, Naperville,
Peter G. Szanto, PhD '79 (Woods), with Du Pont, Wilmington,
Richard J. Saykally, PhD '77 (Woods), asst prof. Cal-Berkeley,
Christopher S. Gudeman, PhD '82 (Woods), PD, Cal-Berkeley.

(Continued on page 16, col. 1)

This 'n That...

(Continued from page 15)

Rolf Hahne, PhD '64, has been asst. director of the State Hygiene Lab at U. of Iowa for 8 years where he is Chief of the Environmental Bureau—a far cry from hot-atom research with Prof. Willard. Rolf reports the following about contemporaries:

Steve Filseth, PhD '62, is prof. of chem. at York U. in Downsville, Ontario.

Robert Ginsberg, PhD '78 (Dahl), was a Madison visitor in August. He is with Citizens for a Better Environment in Chicago where he is Research Director for Toxicology.

Milton Glick, PhD '65, is dept. chairman at Wayne State U. in Detroit.

Carl Hoeppner, BS '45, has been teaching chemistry, law, and speech at Lakeland College in Sheboygan, WI for 24 years. Regards to Paul and Margaret Bender.

James L. Hall, PhD '38 (Williams), appreciates BC coverage of state, university, as well as departmental news. While the national press covered the death of Stanford Moore, he had not known cause of death before BC 29. Jim and Betty visited Cal Tech in March expecting to see **Jack Williams** but found he had returned to Madison a few days earlier. Jim and Betty helped to organize a soup kitchen in Morgantown, WV, and have new photographic interests. Regards to Les Holt, John Willard, Ed Larsen, and of course Jack Williams.

David Hamer, PhD '77 (Whitlock), reports from Hyattsville, MD, without news, as does **Louis Heckelsberg,** PhD '51 (Daniels), from Bartlesville, OK.

George Heckler, PhD '52 (Ferry), who has been chairman of the chem dept. at Idaho State in Pocatello, is stepping down after 22 years.

Bradley Helmer, PhD '82 (West), is with Dow in Midland.

Charles R. Herdeman, BS '75, is now a registered pharmacist in the West Bend hospital. As a member of the UW crew he appreciated Ye Ed's encouragement of the scholastic achievement of the squad.

Richard Hess, PhD '71 (Treichel), who is a research manager in Du Pont's Chemicals and Pigments Dept. sends best wishes to **Paul Schatz** in taking over the Editorship. Dick and Paul were TAs in organic chem when the lab was in T-13 on Linden Dr. He sends regards to **Glen Dirreen** who was also a member of Treichel's research group.

John Hettinger, PhD '66 (Blaedel) is Supervisor of the Materials Analysis Labs at Lockheed Missiles and Space Co. in Sunnyvale, CA.

MORE ON NATIONAL RANKINGS

Badger Chemist #29 carried on p. 20 reference to the most recent rankings of physical science graduate programs. Our report was based on a summary in *Chronicle of Higher Education* rather than on the full report published by the National Academy Press. Since that time it has been possible to examine the full report as well as the subsequent reports on biological and social sciences, and the humanities.

Full analysis shows the Madison grad program to be in generally good health. Comparative rankings were not published by the Conference Board of Research Councils which collected, analyzed, and published the studies, but they did publish categories of data from which colleges themselves assembled unofficial rankings. If using two very significant data categories, Faculty Quality and PhD Program Effectiveness, significant rankings can be developed.

Based on those two criteria, UW-Madison programs come out very well. Eight programs ranked fifth or better: Sociology (1); German, Chemical Engineering, and Geography (2); Statistics (4); while Biochemistry, Molecular Biology, and Plant Pathology all ranked 5th in their respective fields.

Ranked in the 6-12 level were: Spanish-Portugese (6); Zoology (7); Chemistry, Economics and Political Science (8); History (10); Computer Science (11); and Microbiology (12). Chemistry was actually in an 8th place tie with Chicago and UCLA and following Cal Tech (1), Cal-Berkeley (2), Harvard (3), MIT (4), Columbia (5), and Illinois-Urbana and Stanford (both 6). Among the top 20 in chemistry were four more Big Ten universities, scattered among such leaders as: Cornell (11), Northwestern (12), Princeton and Yale (13), Purdue (15), North Carolina-Chapel Hill and Ohio State (16), Texas-Austin (18), Iowa State (19), and Indiana (20).

In the 13-20 level Wisconsin departments included: Geosciences, Mechanical Engineering, and Psychology (13); Botany, Civil Engineering, and French-Italian (14); English and Physics (18); Philosophy (19); and Classics (20).

In the field of chemistry the study included comparison with 145 schools offering PhD programs in the subject. The only discipline with comparison of more schools (150) was psychology. Biochemistry was third, with 139 schools being evaluated. In the majority of disciplines the number of schools offering doctoral programs ranged between 60 and 100.

Erwin Hiebert, PhD '54 (joint—Chemistry and History of Science), reports that all three of their children are doctoral candidates at the present time. Tom is finishing in Music at the UW-Madison while Margaret is working on a PhD in Folk Lore and Romanian Studies at Harvard. Cathy works at the Library of Congress while pursuing her doctorate in American Studies at George Washington U. Erwin's wife, Elfrieda, teaches piano at Brandeis and is director of the Chamber Music Program at Mather House, Harvard. Erwin is ankle deep in research in the history of nuclear physics and chemistry between the two World Wars with special focus on experimental discovery and theoretical interpretation of nuclear fission. He is working in the archival depositories of Lise Meitner and Otto Frisch, mainly in Cambridge, England.

Steven J. Hildebrandt, PhD '76 (Gaines), is at Engelhard Corp., Edison, NJ, doing research on inorganic materials and catalysts. Sorry about the mutilated copy of BC last December—Ed.

Ralph Hirschmann, PhD '50 (Johnson), was in Madison on January 28, as the lead-off speaker in Chemistry 843, a special organic course on bioactive compounds and natural products chemistry. Ralph is with Merck, Sharp and Dohme Research Labs.

Harrison H. Holmes, BS '30, PhD '34 (Daniels), is retired, but does occasional consulting on black powder and its use in fireworks. Red mentions that in the season when most sensible retirees are in Florida he is preparing tax returns with H&R Block in Wilmington.

In his Christmas letter, which was mailed to Prof. Larsen (his major prof.) on March 23, 1983, **Edwin H. Homeier,** PhD '68, of Maywood, IL, "enclosed a check to help keep Ihde out of the jug for nonpayment of debts." **Bob Broach** and **Joe Kochal** are from Dahl's group. **Walt Douglas** has been at UOP for some time and left research for a job in the technical department of the Automotive Products Div.

George C. Hood, BS '48, PhD '52 (Woyski), has retired from the Shell Companies after 32 years. The Hoods are now living at 4191 Bay Shore Dr., Sturgeon Bay, WI. They have purchased two acres of heavily wooded land with a split-level home and 200′ of shoreline on the north side of Sturgeon Bay. George reports that view and environment are outstanding with hundreds of trilliums blooming in their woods when they moved on June 1. Three of the Hood children have graduated from college and the fourth is entering St. Norbert College this fall. Son Karl,

(Continued on page 17, col. 1)

This 'n That...

(Continued from page 16)

with a BS from Texas A&M, is in the Chemical Engineering Grad School at Wisconsin at present and a daughter is at U. of Texas Law School.

Henning Hopf, PhD '67 (Goering), sent best wishes for the holiday season and a Happy New Year from the Institute of Organic Chemistry at University of Braunschweig.

Monie S. Hudson, MS '39, consulting chemist in Spartanburg, SC, continues his search for effective cancer chemotherapeutic agents in the juices of plants. After working in the wood preservation industry for 37 years, Hudson developed innovative techniques for extraction of sap from trees. In pondering why leaves do not grow continually, but stop when they have reached a certain size, he realized that there must be some chemical mechanism for growth control. He has searched throughout North America, in the hills of Costa Rica, and in some of the darkest jungles of South America for agents which may have retarding effect on cellular growth. Despite lack of support from traditional sources, he has persisted and believes he has found some substances which are effective.

Clayton M. Huggett, BS '38 (PhD, Minnesota), writes "still putting out fires." He is Deputy Director, Center for Fire Research, with the National Bureau of Standards.

John Ihde, BS '64 (MS '71, Duke), has been appointed by the State Superintendent of Schools to serve on the Curriculum Guide Committee. He teaches chemistry at Wausau West High School.

Arthur Jelinek, BS '40, PhD '44 (McElvain), has been retired 3 years from Du Pont. He spends most of his time painting in water colors and oils and in gardening.

Reese Jenkins, PhD '66 (History of Science), had a busy year in '82 in connection with the centennial of Edison's Pearl Street Station. Reese is at Rutgers where he is Director of the Edison Papers Project. His wife, Alyce, writes, "Guess where we were on the centennial moment - Saturday, Sept. 4 - alone on an abandoned parking lot in lower Manhattan near Wall Street - the site of the original generating station."

William Jensen, PhD '82 (Larsen), stayed at Madison for the past year as Lecturer in Chemistry. He taught both sections of Chem 108 (the one-semester terminal course) during both semesters and gave Chem 104 (2nd sem. general and qual.) in summer session. After completing these duties he moved to Rochester, NY where he is an assistant prof in inorganic chem at the Rochester Institute of Technology. Before leaving Madison he served as a Madison representative in the UW System Faculty College '83 seminar on improvement of undergrad education. The seminar was held at UW-Marinette in late June.

Harold Jeskey, PhD '42 (Adkins), and Marg loved the MSU football season. Harold had his appointment at Texas-Dallas Medical School extended for another year. Highlight of '82 was a trip to Wilmington where their son-in-law has completed 13 years at Du Pont. Daughter Judy and her husband have three daughters, aged 12-9-6.

Russell Johnsen, PhD '51 (Adkins), reports a pleasant year highlighted by a month of sailing in Finland. Russ reports having his joy in teaching renewed by an honors course in chemistry. He is at Florida State U. in Tallahassee.

Elmer Johnson, PhD '40 (Sorum), reports spending retirement in extensive travel and visits to children and grandchildren scattered throughout the U.S.

(Continued on page 18, col. 1)

GUDEMAN AND WOODS TO RECEIVE NOBEL LAUREATE SIGNATURE AWARD

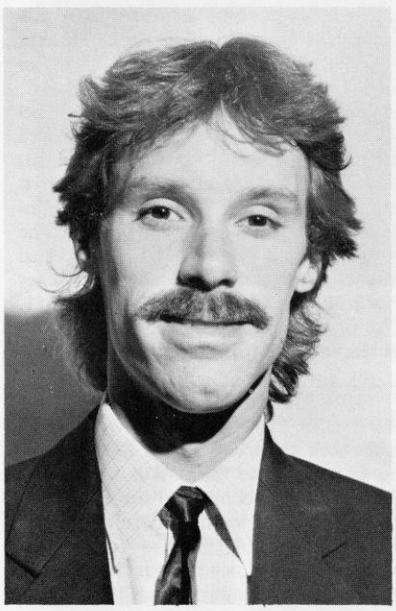
Christopher S. Gudeman, PhD '82, has been named to receive the 1984 Nobel Laureate Signature Award for Graduate Education in Chemistry which is sponsored as an ACS award by the J. T. Baker Co. The award is based on the quality of work represented by his doctoral thesis which was carried out under the supervision of Professor **R. Claude Woods** of the physical chemistry division. The national award carries a $2,000 check for both Chris and Claude and a plaque carrying signatures of Nobel Laureates.

Gudeman and Woods discovered the microwave spectrum of HOC+ (formyl) ion through use of a microwave spectrometer. This led to the observation of the formyl ion in an interstellar medium by Woods, Gudeman and a group of radio astronomers. This was referred to in BC 29 on p. 18 last year.

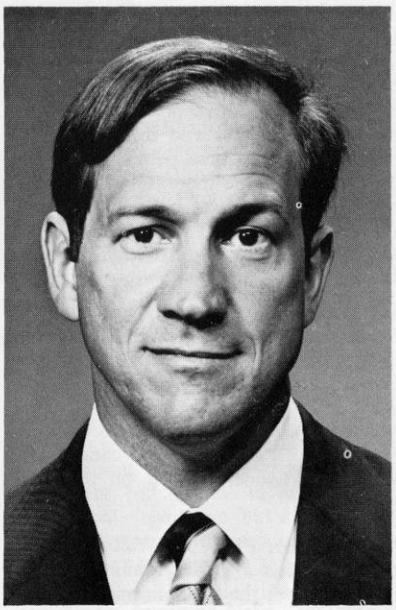
Chris took his BA at Augustana College, Rock Island, IL, with a double major in chem and physics. His UW thesis is entitled, "Microwave Spectroscopy of the Formyl Ion, and Hydrogen Cyanide," and it led to a prestigious IBM postdoctoral fellowship which Chris is using at Cal-Berkeley to carry out research on IR spectroscopy of molecular ions.

Claude joined the departmental faculty in '67 as asst. professor. A BS graduate of Georgia Tech in '61, he took AM and PhD degrees at Harvard, the latter degree being granted in '65. There followed two years of service as a lieutenant in the U.S. Naval Reserve, the duty being served as an Instructor in Chemistry at the Naval Academy in Annapolis. Claude's research interests center on microwave spectroscopy, particularly of molecules with hindered internal rotation.

Claude was married in '63 to Charlotte O'Kelley of Avondale, Georgia.



Christopher S. Gudeman



R. Claude Woods

This 'n That...

(Continued from page 17)

Howard C. E. Johnson, PhD '43 (Johnson), was among those who requested a complete copy of the last *Badger Chemist.* Howard lives in New York City.

Hal G. Johnson, PhD '41 (McElvain), writes from St. Charles, IL, that "Karl Crocker sent me a copy of the *Badger Chemist.*" He had not seen any since 1970. He is back on the mailing list. Hal plans to retire from Northern Illinois University in September 1984. He teaches marketing there.

Thomas O. Jones, PhD '37 (Hall), sent sweetener and an order for the departmental history, and a "How are you?" with no information about how he is or what he is doing. Letter came from Bethesda, MD.

Richard Juday, PhD '43 (Adkins), wrote that the Limnological Laboratory plans to hold a dedication of a new lab at Trout Lake. Dick helped them recall names of pre-World War II workers. He had a long recollection of the laboratory which was started before his birth by his father and Dr. Birge who later became president of the university. His letter included three names and inquired if we could help track these people down for the director of the laboratory. We were unsuccessful with two, but did obtain an address for **Herbert C. Stecker,** BS '39, PhD '42, who is now in HoHokus, NJ.

Wing K. Kam, BS '70, MS '71 (also has PhD in pharmacology and an MD from Case-Western Reserve), was on his third year of an NIH fellowship at the Cal Medical School in San Francisco when he last visited Dr. Willard, his professor for his UW thesis. Wing is working on hepatitis B virus and liver cancer. His wife is an endocrinologist on the Med School staff.

Ray Kepfer, PhD '30 (Walton), is in his 80's and is a great grandfather. He inquired about the announcement of 50-year members of the ACS in the last BC and hadn't been aware of the column before. The column has usually been included in recent years but was overlooked in 1979 when Ray passed that milestone. The 1980 BC did carry the list for both '80 and '79. Ray's name appears on the '79 list.

Virginia March Kline, BS '47, served as Acting Director of the UW Arboretum for several months this summer between the retirement of the director and appointment of a successor. Ginna has served as Arboretum Botanist for several years and has now returned to that post. Shortly after completion of the Chem Course, she married Bernard Kline, MS '33 (Biochem), who was a chemist with WARF Labs. After their children finished high school, Ginna returned to the UW as a grad student in botany, completed her PhD, and took her present position. Bernie has been retired from WARF Labs for several years. (For other news about the Arboretum, see the column on its 50th anniversary.)

Elmer Klug, BS '31, MS '32, reports that he and Peggy have lived in the Milwaukee suburb of Brookfield for 10 years. Elmer worked briefly at the Newport Dye Co. near Milwaukee just when it was taken over by Du Pont. He soon left to become associated with the family funeral livery in Milwaukee and is now enjoying retirement in the Gemutlichkeit of the Brookfield Senior Citizens Club.

Daniel D. Konowalow, PhD '61 (Hirschfelder), wrote from State U. of New York-Binghamton to chide the Editor about his report that Ed Larsen is working on Li chem at 1711 degrees Calvin. His question to Ed is — "Since when have you supervised research in theological inorganic chemistry?" Since Dan also received a copy of the garbled version of BC he must feel that Ye Ed is senile and needs to retire, but was too much of a gentleman to say so!

Sheldon Kopperl, PhD '70 (History of Science), writes that his wife Sue finished her BA at Grand Valley State in '82 and is doing some substitute teaching. The Michigan economy continues to restrict GVSC programs, creating complications for those in interdepartmental activities there.

Ray F. Korfhage, PhD '27 (Schuette), reports that he and Loretta are no longer going out at night but he still enjoys reading about what classmates are doing. Their children and grandchildren are scattered from Cornell to UCLA. A son is prof of computer science at SMU in Dallas.

John Korth, MS '40 (Schuette), and Henrietta enjoyed a trip to Tahiti, Australia, New Zealand and Fiji in winter '82. The rest of the year they spent in their Maine retirement home cutting wood, gardening, keeping porcupines out of the rose garden, and feeding their other furry and feathered friends. They expected their entire family home for the holidays for the first time in years.

John R. Kretsch, BS '73, sent a nice bit of help for Ye Ed, but no news.

Carl H. Krieger, MS '38 (PhD '40 Biochem), sends a letter too complimentary to be quoted without embarrassment.

Charles J. Krister, MS '37, corrected an error in his degree date. Thanks — Ed.

Vincent P. Kuceski, PhD '50 (Schuette), is vice president for research at C. P. Hall in Chicago. The company produces chemicals for industry. In his letter Vince inquired about the whereabouts of **Charlene Steinberg,** MS '48 (Ihde), who continues teaching chem at the Sheboygan Center of the UW.

Walter M. Kutz, PhD '30 (Adkins), reports that even at 80 he still recognizes about 25 names from the '27-30 period. He is retired in Santa Rosa, CA.

Mary B. Lathrop, BS '68, JD '80, is now practicing law on an Indian Reservation in South Dakota.

Alvin C. Laroie, PhD '81 (Trost), is with Rohm & Haas.

Stephen L. Lawton, BS '63, became 'Project Leader" in the Analytical Dept. of Mobil R&D Corp. at Paulshor, NJ, last December. His group is involved in testing for characterization of petroleum catalysts. He continues to be involved with x-ray diffraction.

Samuel Lenher, BA '24 (PhD '26, U. of London), sends regards from his retirement home in Delaware. Dr. Lenher was associated with Du Pont during most of

(Continued on page 19, col. 1)

SHAKHASHIRI WINS NORRIS AWARD

Word was received in June that Bassam Shakhashiri is the 1983 recipient of the prestigious James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. This award is given by the Northeastern Section of the American Chemical Society. Bassam's award is based upon his well-known teaching ability, his activities as Coordinator of the general chemistry program in our department, his service as the Chairman of the ACS Division of Chemical Education, his design of the new chemistry exhibit at the Museum of Science and Industry in Chicago, his development of chemical demonstrations as a way of illustrating chemical principles, his "Chemistry Can Be Fun" program for middle school children in the Madison area, and his leadership in the new Institute for Chemical Education. Congratulations Bassam!

The late Farrington Daniels won the Norris Award in 1957, the 6th time it was granted. The list of awardees is a distinguished one, including Harry Holmes (Oberlin), Norris Rakestraw (ed., *J. Chem Ed.*), Emma Carr and Mary Sherrill (Mt. Holyoke), Louis Fieser (Harvard), Joel Hildebrand (Cal-Berkeley), Hubert Alyea (Princeton), Eugene Rochow (Harvard), Leonard K. Nash (Harvard), Anna Harrison (Mt. Holyoke), Robert Brasted (Minnesota), Fred Basolo (Northwestern). The Award, which honors the distinguished teacher of organic chem at MIT, James Flack Norris, was first awarded in 1951. The first recipient was George S. Forbes of Harvard.

This 'n That...

(Continued from page 18)

his career. His father, Victor Lenher, was a leading member of the UW chem faculty from 1900 until his death in 1927.

Robert L. Lichter, PhD '67 (Lemal), brings us up to date on his activities in the last 15 years. He finished his doctoral research at Dartmouth after Dave moved there, although Bob received his degree from UW. Bob spent a postdoctoral year in Braunscheig with Quinkert and two more at Cal Tech with Roberts. Since '70 he has been professor of chem at Hunter College of CUNY, serving as chairman '77-81. After a sabbatical year with Sandoz, Inc. and Exxon Res. & Engineering Co. he is back at Hunter. His research in NMR spectroscopy has led to numerous papers and two books.

John G. Lofstrom, PhD '54 (Blaedel), also received the garbled version of BC 29 in Metuchen, NJ. Has been replaced. He reports that his son John R. has 2 sons, that daughter Christine was married in '81, and daughter Susan is wearing an engagement ring.

John W. Lott, PhD '74 (Gaines), is with Du Pont Photo Products R&D in Parlin, NJ. He was "glad to see some news about our old Chem Dept. Hockey Goalie **Steve George,**" PhD '77 (Ihde). John and several Wis. couples on his street got together last spring to watch Wisconsin win the NCAA hockey championship on ESPN cable. John included the names of the following Badger Chemists in his area of New Jersey:

P. D. Frisch (Dahl) with Exxon, Linden
Jack Johnson (Treichel), Exxon
J. D. Sinclair (Dahl), Bell Labs, Holmdel
M. A. Neiss (PD, Willard), Du Pont
S. J. Hildebrandt (Gaines), Engelhardt
Mike Chen (Gaines), Carbide
J. Kleppinger (Larsen), RCA

Lester G. Lundsted, PhD '42 (Adkins), writes from Grosse Ile, MI, that he looks forward to reports about Wisconsin and news of those who were there in the early forties.

Donald T. Lurvey, BS '38, enjoys retirement in N.W. Arkansas. Hello to Dr. Sorum.

Elizabeth Lean Lyle, BS '47, writes that her husband Paul, who received an MS in Metallurgy at the time that she was a senior and TA in Chemistry, was elected a Fellow of the American Society of Metals. Paul and Liz were in Milwaukee in summer '82 to celebrate her parent's 60th anniversary.

Alan MacDiarmid, PhD '53 (Hall), participated in lectures and seminars at the XII Natl. Colloquium on Specialized Polymers, Montpellier; Polymers and Synthetic Metals, London; the Musher Memorial Lectureship, Jerusalem; as well as several in Michigan, Virginia, and Penn. He also gave the Priestly Memorial Lecture in Philadelphia and received an honorary ScD from Elizabethtown College in PA. He has been a faculty member of U. of Penn for many years. On Dec. 3, '82 he gave an ACS Lecture at the UW.

Eldor Marten, BS '25, spent considerable time in the hospital last year but reported that he is recovering and expected to try his luck on the local pond when the fishing season began.

John S. Meek, BA '41, spends winters in Florida and summers in Colorado. He is President of Bureau Issues Assoc. and contributes stamp articles to their publication. Saw **Preston L. Veltman,** PhD '38 (Daniels), who is retired from Grace but is busy on conversion of dialysis stations around the world.

Rudd A. Meiklejohn, BS '41, MS '54, sent a nostalgic letter reporting on the profound influence Mel and Patty Meloche had on his life and career. When Rudd was a student in '37 on the NYA program, Patty assigned him to a job with Mel who also became his advisor. After military service, Rudd spent 6 years in business before returning for his masters. He writes, "Mel and Patty were great people and had the full interest in Mel's students. Not only academic but their full well being. I treasure my association with both of them." Rudd is with 3M.

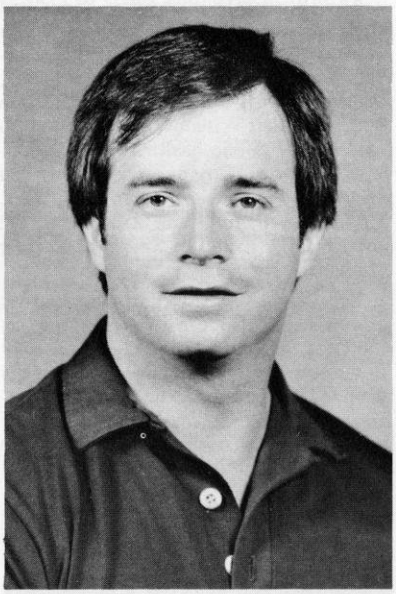
Phyllis Anderson Meyer, MS '69, completed her doctorate in history of science with Ihde last August, presenting a thesis dealing with the history of the Delaney clause in the U.S. Food and Drug Act. Phyllis is the wife of **Keith Meyer,** PhD '76 (Crosley) who is with Swift and Co. Phyllis has been teaching at a community college in the Chicago area for several years.

Catherine Hurt Middlecamp, PhD '76, and her husband proudly announce the birth of John early last June. Cathy continues her work in the Program for Disadvantaged Students which was developed by Prof. O'Leary and is managed by Betsy Kean, PhD '74.

(Continued on page 20, col. 3)

TOBIN JOINS FACULTY

James G. Tobin, BS '78, is returning to Alma Mater as Assistant Professor in analytical and physical chemistry. He recently completed his PhD at California-Berkeley where he was a student of D. A. Shirley who is associated with the Materials and Molecular Research Division, Lawrence Berkeley Laboratory. His thesis title was: "Dimensionality and Its Effect upon the Valence Electronic Structure of Ordered Metallic Systems." His work in Prof. Shirley's laboratory has resulted in co-authorship of nine published papers plus four more which are in press, as well as several in preparation.



James G. Tobin

Jim is no stranger to the Wisconsin scene. Born in Fond du Lac on February 15, 1956, he entered the university after completion of studies in public schools in Fond du Lac where he was a Wisconsin Honor Scholar and was awarded a National Merit Scholarship. In 1976 he served as undergrad assistant in analytical chemistry, working in the John Walters group. His senior thesis work was in physical chemistry, in the group of R. Claude Woods. His BS was awarded with distinction.

At Berkeley he held a NSF Graduate Fellowship for 3 years and a University Graduate Fellowship in his last year. While in grad school he participated in presentation of two papers at the '82 meeting of the American Physical Society in Dallas.

The research program he plans to pursue at Wisconsin involves the investigation of surfaces and interfaces as a matter of scientific and industrial interest, and the development of techniques suitable to such studies. Relevant techniques include Low Energy Electron Diffraction, Auger Electron Spectroscopy, Angle-Resolved Photoelectron Spectroscopy, and K-Resolved Inverse Photoelectron Spectroscopy. Jim expects to utilize the synchroton radiation from the university's Physical Science Lab in pursuit of some of these studies.

BIOCHEMISTS OBSERVE CENTENNIAL

The founding of the discipline of biochemistry at the UW in 1883 was observed by the department when it hosted a reunion and symposium on August 26-27. There were about 150 registrants at the meeting, more than 50 of them from outside Wisconsin. The symposium dealt with contributions to biochemistry during the past century, with special emphasis on contributions made by faculty and students of the UW department. All program participants held doctoral degrees from the Biochem Department except for H. G. Kohrana, Nobel Laureate in '68 who is now at MIT, but was a member of the departmental faculty in '62-70 when he was also a member of the Enzyme Institute.

Symposium visitors were welcomed by Hector DeLuca, Harry Steenbock Research Professor and Chairman of the department and by Robert M. Bock, Dean of the UW Grad School and Prof. of Biochem since '52. Bock holds two degrees in the Chemistry Dept., BS '49 and PhD '52. Bock was a student of Prof. Robert Alberty, PhD '47 (Williams) who was a member of the Chem Faculty from '47 to '67 when he became Dean of Sciences at MIT. Carl A. Baumann, BS '29 (Sorum), PhD Biochem with Steenbock, chaired one of the sessions. Carl is retired since '74 after 36 years on the Biochem faculty.

Another Badger Chemist, Howard A. Schneider, BS '34 who completed a BS thesis with Prof. Williams before joining Prof. Steenbock for his PhD '38, was the lead-off speaker with a paper, "Rats, Fats, and History," which reviewed the origins of nutrition research in the department. Howard, in his own inimitable fashion, pointed out how the skepticism of Babcock and the research of McCollum brought about the overthrow of a Kuhnian paradigm and its replacement by a new one.

After Babcock developed his test for butterfat in milk at Wisconsin, he became concerned about the failure of chemical analysis to reveal the reason for nutritional inadequacies in farm crops when fed to dairy cattle as single grains, but with equivalent amounts of protein and energy-producing components. Babcock's skepticism led his younger colleagues, E. B. Hart, Harry Steenbock, George Humphrey, and E. V. McCollum to undertake a four-year study to uncover the reason why cows did well on corn but poorly on wheat and oats. The four-year study confirmed Babcock's suspicions but chemical analysis failed to uncover the reasons. McCollum soon despaired of chemical analysis and of studies on large animals and, though violating College of Agriculture protocol, began feeding white rats. In 1913, he and Marguerite Davis recognized the importance of a trace of butterfat in bringing sick rats on experimental rations back to good health. McCollum's work came to be recognized as proof that certain foods contain trace nutrients which escape chemical analysis but can be detected by the controlled feeding of experimental animals. This possibility had been suspected in several labs but McCollum provided evidence confirming the suspicion.

The Wisconsin discovery stimulated three decades of exciting research which contributed significantly to the understanding of the role of trace nutrients, vitamins and minerals, in the diet. Although McCollum left Wisconsin in '17 to set up a school of public health at Johns Hopkins, the trace nutrient work was pushed forward by Harry Steenbock, E. B. Hart, Conrad Elvehjem, Frank Strong, PhD '32 (McElvain), Esmond Snell, and their students.

The Biochemistry Department had its origins in the College of Agriculture as the Dept. of Agricultural Chemistry only three years after Prof. W. W. Daniells dropped the agriculture half of his professorship and became chairman of the new Chemistry Department. The agriculture component of his professorship was passed on to Wm. A. Henry, prof. of botany. Henry steadily built up the agriculture program to the time of his retirement as Dean of the College in 1907. By that time the College had achieved distinction for the work of its Experiment Station in Agricultural Chemistry, Physics (Soils), Bacteriology, as well as its Extension Work in scientific farming.

Henry P. Armsby came to Wisconsin in '83 as the first Prof. of Ag. Chem. but left four years later to become director of the Experiment Station at Penn State where he developed a leading program in animal respiration. The Penn State calorimeter was a sophisticated instrument suitable for respiration studies on sheep and cattle.

Stephen M. Babcock succeeded Armsby in '88 and soon developed the test for butterfat in milk in '90. Around 1900 he collaborated with bacteriologist Harry Russell in developing a process for cold curing of cheese. His practical contributions had a profound influence in the success of the dairy industry, not only in Wisconsin but in the country as a whole. Babcock became a revered figure whose influence with farmer-legislators enabled Presidents Adams and Van Hise to extract favorable financial support for the university.

The Biochemistry Department supported the Centennial with funds from the Steenbock bequest and designed it as the 13th Steenbock Symposium, an annual program. The Symposium Committee plans to publish a book containing the eleven lectures with some biographies of early members of the department.

Relations between the Chemistry and Biochemistry Departments have always been close in spite of being housed in different colleges. The two departments have freely exchanged ideas and access to equipment. Numerous chem students have taken minors in biochem, and vice versa. Several chem faculty members hold joint appointments in biochem: Marion O'Leary, Tom Record, Hyuk Yu.

This 'n That. . .

(Continued from page 19)

Walter E. Militzer, BS '33 (PhD '36 with Link in Biochem), writes that he is working on a history of the chemistry department at U. of Nebraska and looks forward to the UW story. Retired since '74, he has taken up water color painting and has exhibited in juried shows.

Nels Minne, PhD '32, reports from Winona. No news.

Therald Moeller, PhD '38 (Krauskopf), retired from his teaching at Arizona State at the end of the spring semester. Ye Ed was invited to attend a Founders Day Dinner at which he was honored in March but had to regretfully decline. The Moellers expect to remain in the Tempe area and Therald plans not to forsake chemistry but to continue writing, editing, and may even sit in on courses to keep up. They will probably spend more time at their vacation place in the Upper Michigan Peninsula. Therald taught at Michigan State, 38-40; at Illinois 40-70; and Arizona State, 70-present. His research field has been rare earth chemistry but his interests transcend the whole field of inorganic. His *Inorganic Chemistry* is a definitive text in the field. The fourth and last volume of his editorial contributions to Gmelin's *Handbuch* appears this year.

Marjorie Gilbert Moldenhauer, BS '52, regrets not getting to Madison in '82. She hopes to complete her engineering degree by the time she retires since she has many distractions, such as the harpsichord under construction in her living room since the early 70s, and her own computer which also shares the room. Marjorie suggests that we send out campus maps with the BC to aid alumni visitors to the UW.

Karen Telander Muskavitch, BS '75, is a postdoc in the Biological Labs at Harvard as is her husband Marc, a UW BS in biochem. Karen has a biochem PhD in '80 from Cal-Berkeley with Prof. Stuart

(Continued on page 21, col. 1)

This 'n That...

(Continued from page 20)

Linn. In '84 she and her husband will move to Indiana U. to research scientist and asst. prof. positions.

Ronald L. Morse, PhD '68, reports a change of address. He is still with Monsanto in St. Louis.

Charles Muckenfuss, PhD '57 (Curtiss), provides moola but no letter.

Charles R. Naeser, BS '31 (PhD, IL), deplores the lack of recognizable names in BC. He is retired fom George Washingtoh U. and lives in Falls Church, VA.

John A. Neptune, PhD '52 (Sorum), found the Ferry profile very interesting and reported that John's mother and sister live near them in San Jose. His mother is author of a book, *Yukon Gold,* describing life in the Yukon in the early 1900s. John N. enclosed the xerox of a picture of John F. as a small boy riding on a boy's wagon loaded with gold bricks. John N. assures us that the bad economy of Wisconsin is nothing compared to that in California where that state now ranks 48th in per capita expenditures on education.

Thomas H. Newman, PhD '80, is no longer at U. of Texas-Austin but sends a Midland, MI address. Does this mean Dow?

Philip T. Newsome, PhD '26 (Daniels), reports a Rochester, NY address but no news. He is a retiree from Eastman.

Ambrose R. Nichols, Jr., PhD '39 (Walton), reports a visit from Ray and Lolita Brumblay last year. **Duncan Poland,** PhD '63 (Margrave), is chairman of the Physics Dept. at Sonoma State where Amby was president before retirement.

Stephen W. Nicksic, PhD '52 (Schuette), reports a new venture in Brea, CA. His card names him as president of Stephen's Chemical Service & Supply, Inc.

Alfred L. Norris, Jr., MS '69 (Blaedel), is Group Leader for analytical services with Morton Thiokol, Inc./Ventron Division in Danvers, MA. On a questionnaire returned to Alumni Records recently he recorded the wish for a more frequent Chem Dept. newsletter. (The retiring Editor says, "No Way!" The annual effort to put out *one* newsletter is surprisingly time-consuming, not only for the Editor but for departmental staff who assist with typing, stuffing envelopes, maintaining mailing lists, and processing contributions. More frequent newsletters would increase the task to the break point. Of course, the incoming Editor may think otherwise! Try working on him!)

Rachel Ogorzalek, BS '81, is with the Chem Dept., Baker Laboratory, in Ithaca, NY.

TARKOW, CCC, AND THE ARBORETUM

In 1933 a group of unemployed youth arrived in Madison as members of the Civilian Conservation Corps to restore abandoned farm land south of Lake Wingra to pristine prairie and forest such as existed there before Madison existed. This was the beginning of the New Deal Era when the government sought various devices to create employment. The CCC was created to provide jobs for young men who could restore land and forests, improve streams, and create recreational areas. Camp Madison was among the first and between 1933 and 1940 more than a thousand CCC boys circulated through the barracks south of the prairie, building roads, restoring land, constructing walls, clearing brush, and otherwise undoing the ravages of marginal agriculture.

Now, fifty years later, the Friends of the Arboretum became active in a move to locate CCC alumni who had worked there and plan a reunion. Badger Chemist Harold Tarkow, board member of the Friends, took a leading role in uncovering lists of men who worked on the project, establishing their whereabouts, and urging them to join a reunion held in Madison on September 17. Some 50 workers returned for the occasion, renewing old friendships, touring the present Arboretum, and participating in interviews taped by UW Archives.

Harold Tarkow

* * * * *

Harold Tarkow, BS '34, PhD '39 (Williams), taught briefly at Bradley U. in Peoria, then had a long research career at the Forest Products Laboratory. Shortly after retirement from the Lab, Harold lost his wife, Liesl, who he met as an Austrian refugee student at Bradley. Harold is now remarried to Ethyl Waisman, the widow of Harry Waisman, BS '35, who died during surgery in 1971. Harry took a PhD in biochem, '39 with Elvehjem, and an MD in '47. After a few years with the Illinois Medical School, he returned to the UW as professor of pediatrics where he developed a strong research program on the role of chemical substances in leukemia and mental retardation. This led to the creation of a laboratory supported by the Joseph Kennedy Foundation. This laboratory, housed in a new building near the new UW Hospital, is now known as the Harry Waisman Center.

Harold Tarkow pursued an active research program in wood chemistry during his career at FPL where he was closely associated with another Badger Chemist, Alfred Stamm, PhD '26 (Mathews). Harold's research included studies in absorption, swelling, permeability, particularly as related to wood, pulp, and paper. He also contributed to the thermodynamics of solutions, the chemistry of carbohydrates, and to studies on synthetic resins and plastics. It is clearly fitting that Harold, in retirement, is active in the preservation of the university's natural heritage: woods, prairie, and water in the Arboretum.

Paul Ornstein, PhD '82 (Trost), who is a postdoc with David Evans at Cal Tech reports that Evans' entire research group is moving to Harvard to join their chemistry department.

Edward J. Panek, Jr., BS '63, took a PhD in organic at MIT in '68 and is now manager of the chem section of Ag Chemicals R&D at BASF Wyandotte Corp. in Fairfield, NJ. In '82 he was co-recipient of an Industrial Research IR-100 award for development of a new hydraulic fluid.

John Parascandola, PhD '68 (History of Science), has left his professorship of pharmaceutical history at the UW to become Chief of the History of Medicine Division of the National Library of Medicine in Washington.

John recently teamed with U of Washington medical historian **James Whorton,** PhD '69, in editing *Chemistry and Modern Society: Historical Essays in Honor of Aaron J. Ihde.* This *Festschrift* is published as No. 228 in the ACS Symposium Series and contains nine essays deal with the manner in which chemistry has influenced scientific and social developments in the 20th century. All authors are historians of science who studied with Ihde or had close association with him. Five who took PhDs with him are: the two edi-

(Continued on page 22, col. 1)

This 'n That...

(Continued from page 21)

tors who each have papers in addition to a short biography and bibliography of Ihde's historical papers, **Stanley Becker,** '68 - now at Bethany College, **Sheldon Hochheiser,** '82 - now at Rohm & Haas, and **Daniel Jones,** '69 - now at the Chicago Medical Center of U of Illinois. Two others took doctorates at Wisconsin under **Robert Siegfried,** PhD '53, Ihde's first student in history of chemistry: they are **Anthony Stranges,** '77 - now at Texas A&M, and **Jean-Claude Guedon,** '74 - now at U of Montreal. Another author, John W. Servos, took his PhD at Johns Hopkins where he was a student of **Owen Hannaway,** an Ihde postdoc in '66-67. The other contribution is from historian J. Harvey Young of Emory U who shares with Ihde a longtime interest in food and drug regulation and is working on a history of the FDA.

Al Pavlic, PhD '42 (Adkins), gave up at Du Pont only to take 4 jobs "since it keeps one young." Says "BC is going to miss your touch, but I'm sure you've trained your successor."

The first **David Perlman** lectures were given in May by Duilio Arigoni of the ETH in Zurich. The lectures are sponsored by the Depts. of Bacty, Biochem, and Chem, and the School of Pharmacy. Dave, who died in '80, had a BS '41 in Chemistry, a PhD '45 in Biochem, spent 20 years as a microbial biochemist with the Squibb Inst. for Med. Res., then returned to the UW as prof. of pharmacy in '67 (serving as Dean '68-77).

Fredus N. Peters, PhD '25 (Fischer), sent his best together with the usual support from Sarasota, FL. Pete was with Quaker Oats during his career, retiring as Vice President for Research. Pete was a student of Richard Fischer who had him study the chemistry of furfural. This led to the commercialization of furfural since Quaker Oats was producing tons of oat hull waste in their breakfast food production. Oat hulls are a principal source of furfural which found use as a solvent, a source of one form of nylon, and a source of numerous organic derivatives.

Russell Peterson, PhD '42 (Walton), was the speaker last May at the commencement exercises at Northland College in Ashland, WI. As has been mentioned in a previous *Badger Chemist,* Russ is now President of the National Audubon Society and has frequently been quoted in connection with environmental programs and needs. Prior to becoming Governor of Delaware in 1969 Russ was with Du Pont.

ROUGH ON RATS

Research in the Biochem Dept. is again rough-on-rats. Forty years ago, serendipitous research in the lab of the late Karl Paul Link, led to the discovery of a coumarin-related compound which proved deadly to rodents. Its capacity to interfere with the clotting of blood caused rats slowly to die from internal hemorrhaging. The compound, patented by the Wisconsin Alumni Research Foundation and marketed as Warfarin proved amazingly successful—until rats developed resistance to it. Now, through analogues of vitamin D in the lab of Hector DeLuca, serendipitous research has again uncovered a new rat killer. The compound, called one-alpha, like other vitamin D analogues, stimulates deposition of calcium and phosphorus in bone formation but this one has extreme effects at low-levels of intake, causing rapid calcification of the heart and aorta and resulting in delayed death. One-alpha (1-alphahydroxyvitamin D_3) is toxic to rats at a level of 100 micrograms so is effective at low concentrations in bait. While toxic to all vertebrates, the small amounts present in bait limit the hazard to larger mammals. Further, the one-alpha metabolizes in the rat before death occurs so cats can eat the rat without hazard. Since the compound also weathers quickly it does not present a lasting hazard. DeLuca was the last PhD candidate to study under Harry Steenbock and now holds a Harry Steenbock Research Professorship. His work has clarified the metabolic behavior of variants of vitamin D.

Ralph Petrucci, PhD '54 (Sorum), has resigned as Dean of Academic Planning at California State College, San Bernardino, in order to return to teaching and writing. He will have a sabbatical leave during the next year which he plans to use for production of the manuscript for the fourth edition of his *General Chemistry* textbook. The three Petrucci children have now completed college and hold positions in the San Bernardino area. The youngest son, Peter, graduated from San Bernardino State last year after having spent a high school year in Brazil and a college year in France.

Nancy Piltch, MS '76 PhD '81 (Woods), reports an address change to NASA-Lewis Research Center in Cleveland.

Paul S. Pinckney, BS '34, who retired from Du Pont 10 years ago, has been sailing, selling, and teaching the technique of using Windsurfer sailboards. He and his wife have competed in 7 American and 3 World Windsurfing Tournaments, most recently in Okinawa.

Albert F. Preuss, BS '49, PhD '53 (Meloche), twisted the Editor's arm to continue, to no avail! Al, who is President of Aldex Chemical, Shelburne, VT, asks if **Al Winger,** PhD '52 (Bender) was not a graduate of St. Olaf's. He was. Thanks.

Gordon Pscheidt, BS '54 (PhD Physiology), stopped by recently seeking a copy of a mimeographed genealogy handed out in Chem 107 when he was a senior. He sought the lineage of Prof. Philip Cohen, his minor prof in physiological chem while working for his doctorate. A search failed to uncover any of the mimeos but an old, dirty, water-stained, faded cardboard working chart uncovered the desired information. Cohen took his PhD in '37, working under Harold Bradley, a Yale PhD whose lineage traces back to Liebig, Gay-Lussac, and Berthollet. Phil is now retired after many years as chairman of the UW Physiological Chem Dept. Gordon Pscheidt lives in Eau Claire where he has been involved in medicinal chemistry.

John Quinlan, PhD 59, sent a nice sweetener but no news about himself.

Gorman L. Quinn, PhD '51 (Bender), moved last year from Wilmington, DE, to Mesa, AZ. This information comes from Dr. Bender who had direct contact with him August 10, 1982. A letter added that Gorman is raising 2 beagles, following astronomy, and developing his computer skills.

Dallas Rabenstein, PhD '68, sent something for the BC which he always enjoys reading. Dallas is with the Chem Dept. at U. of Alberta in Edmonton, Canada.

John Rae, PhD '43 (Hall), has been, since leaving Shell seven years ago, Manager of Employee Health Clinic of Methodist Hospital in Houston. His wife, the former Dorothy Swift, who was a grad student with Homer Adkins, teaches high school chemistry besides a frosh section at U. of Houston.

Manfred G. Reinecke, BS '56 (PhD, Berkeley '60), has been at Texas Christian U. since '64 where his research area is heterocyclic chem. TCU has doctoral programs in organic, biochem, physical, and inorganic. Presently, Manfred is on administrative leave as Director of TCU's self-study activity. A few years ago his sabbatical was spent as an exchange scientist in East Germany, courtesy of the U.S. and East German Academies of Science. **John Albright,** PhD '63 (Goering), is a faculty colleague.

Davy Remy, PhD '59, asked us to check our mailing list when he failed to receive BC 29.

(Continued on page 23, col. 1)

This 'n That...

(Continued from page 22)

Chon Kong Rhee, PhD '76 (Ferry), was the author of a paper on mechanisms of ozonization at the Chicago meeting of the ACS Rubber Division in '82. He is with B. F. Goodrich.

Jonathan Rich, PhD '82 (West), is with General Electric Corporate Research in Schenectady.

Fred Riley, BS '43, stopped in Madison for 5 hours en route to Mayo Clinic last October from his home in Germany. He and his wife were awed and impressed with the university's growth since he was a student. Had lunch at the Union, ice cream at Babcock Hall, and admired the new chem bldg. but failed to find either Bender or Ihde. Took home a UW T-shirt.

Wilbert Robertson, PhD '55 (King), has completed 15 years with Kerr-McGee in Oklahoma City. His work is with hydrometallurgy and coal processing. Saw Willard when he was ACS speaker on the Chisholm Circuit.

Rex Robinson, PhD '29 (Meloche), recently provided Ye Ed with some splendid insights into Analytical Chem at the UW during the '25-30 period when Victor Lenher and George Kemmerer died and Mel was thrust overnight into running the analytical division in autumn '28, with the assistance of Loren Hurd and Rex. One quote from Rex's letter confirms a hunch the Editor had but was unable to verify earlier. "In 1929 Prof. Mathews was able to get money for Mel to buy a lot of instruments and start his Instrumental Analysis Program. His work in this area was pioneer work in this country."

Alan Rocke, PhD '75 (Ihde), who is at Case-Western Reserve, has had the manuscript on "Early Nineteenth Century Atomism" accepted by Ohio State U. Press. He has become deeply involved in the arms control movement and has become an advisor on these problems to Ed Leighman, newly elected Congressman from that Cleveland district. Reports that Chris enjoys her Art Institute job.

Robert M. Rosenberg, Robert McMillan Prof. at Lawrence U has received a $13,000 research grant from Research Corp. This grant is for continuation of his studies on subunit interactions of the enzyme glutamate decarboxylase. The molecule contains six identical subunits with an active site on each subunit. In recent years, Bob has spent several leaves at Madison in order to utilize instrumental facilities in the department. Bob is a Northwestern PhD '51 who has been at Lawrence since '56.

ICE (PROGRESS REPORT)

The national clamor raised over the past couple of years about growing scientific illiteracy among Americans is goading efforts to reverse that trend.

The University of Wisconsin-Madison has just established a national Institute for Chemical Education whose aims are to revitalize the teaching of chemical sciences at all levels by engaging the cooperation of academic, industrial, and government chemists and to maintain this vitality to ensure a high level of quality in teaching future scientists, the general student, and the public at large. Professor Bassam Z. Shakhashiri has been appointed the Institute's director.

The Institute for Chemical Education was proposed in April at a national conference to evaluate the idea. The conference participants—more than 30 business and science-education leaders—unanimously passed a resolution calling for the creation of a national facility to improve the quality of teaching in the chemical sciences at all educational levels. Included among the participants were representatives from high schools, colleges, universities, professional organizations, and major companies, including Du Pont, Exxon, Dow, IBM, Upjohn, and 3M.

The first of two major initial programs at the Institute will offer continuing education workshops for precollege and college teachers to help them broaden and update their knowledge of the chemical sciences and related topics. In the second program, resident fellows—chosen from among college and university professors, high school teachers, and industrial chemists—would conduct research on issues in chemical education.

University of Wisconsin-Madison faculty in the chemical sciences, computer science, education and other related fields will be involved in the Institute. Although financial support for the Institute will come primarily from federal sources, contributions from industry and other private sources will help make the Institute and its programs successful. The Exxon Corporation has just donated $50,000 to help fund the Institute's first programs. This major grant is a big step toward meeting the goal of raising $150,000 to fund two workshops scheduled for next summer to help high school chemistry and mathematics teachers keep abreast of new developments in their fields. Donations from other sponsors are expected shortly. When all programs are fully underway, sometime during the 1984 school year, the Institute will offer 25 workshops each year for about 1,500 college and precollege teachers of chemistry and related subjects. The workshops will run from one to eight weeks. The annual operating budget of the Institute will be about $2 million.

Professor Shakhashiri is applying for grants from the National Science Foundation and the U.S. Department of Education. He anticipates that grants from federal agencies will account for two-thirds of the Institute's annual budget; the remainder is expected to come from firms in chemical and pharmaceutical industries, private donations and school districts.

A 15-member national board, comprised of representatives from academia and industry, along with a local University of Wisconsin group, will help determine Institute policies and assist in fundraising efforts.

Anyone interested in receiving the Institute's newsletter should write to:

Professor Bassam Z. Shakhashiri,
Director
Institute for Chemical Education
Department of Chemistry
University of Wisconsin-Madison
1101 University Avenue
Madison, WI 53706

Marie Mercury Roth, PhD '52 (Johnson), sent a reference to the magazine, *Sweden Now* (No. 5, '82, p. 8) which reported that **Russell Peterson,** PhD '42 (Walton), former Du Pont chemist-turned-environmentalist, was named Swedish-American of the year.

Gilbert A. Samberg, PhD '72 (O'Leary), wishes to continue to receive BC but includes no news. The letterhead suggests a law firm on Park Ave.

William Scanlon, BS '69 (PhD, UCLA '77, JD, Michigan, '78), is a patent attorney with Cetus Corp. which has a biotech subsidiary in Madison. Bill and his wife and two daughters live in the San Francisco area where his wife, the former Ellen McGlynn and also a UW grad, is a librarian in Oakland. They look back on their student days in Madison with fondness and thanks.

Joachim Schantl, PD '66-68 (Zimmerman), who has been at the U. of Innsbruck since '77, was elected head of the Institut fur Organische und Pharmaceutische Chemie in '81. In '80 he received the Ernst-Srath-Award of the Austrian Academy of Science and was local organizer of the 8th IUPAC Symposium on Photochemistry in Seefeld, Austria.

Virginia Schelar, BS '48, MS '53, PhD '69 (Hist. of Science), reported last winter that she wonders if the editor realized that some of the trees he enjoys in the Arboretum were planted by her when she

(Continued on page 24, col. 1)

This 'n That...

(Continued from page 23

was a freshman. She participated in a work-day to plant trees and rode back to the campus on the fender of a car. She fell off the fender at a bus stop right into the arms of Professor Schuette.

Barbara Schumacher, BS '52, reports that the last two issues of BC were particularly rich in news of people she knew in college. She has become active in computer programming as a result of courses in the L.A. area.

Edward J. Schwoegler, PhD '39 (Adkins), avers that retirement should be spelled "re-tired" and is looking for a new job so he can get some rest. Enjoyed the McElvain photos since he knew nearly everyone except Bill Johnson and Al Wilds who came in '40.

Ernest F. Silversmith, PhD '55 (Goering), teaches organic at Morgan State fulltime and at Johns Hopkins part-time. All four children are in college: Ann pursues a PhD in physics at Natl. U. of Australia, Ruth is a biochem grad at Minn., Ed an engineering student at Maryland, and Dan in math at Grinnell.

Herbert J. Sipe, Jr., PhD '69, enjoys the mix of news about departmental alumni, faculty, and university and regrets that Madison crime has become a sour note to "those of us who enjoyed the pleasant days of yesteryear." Herb is professor of chem at Hampden-Sydney College in Virginia.

Harold H. Snyder, BS '37, PhD '45 (Meloche), worred when his BC failed to arrive in November but says it was worth the wait.

Juanita Sumpter Sorenson, BS '50 (PhD Science Ed. '71) is on the UW-Eau Claire faculty. She was recently appointed to a 3-year term on the Wis. Supreme Court's Board on Attorneys Professional Competence.

Leo H. Spinar, PhD '58 (Margrave), has returned to the classroom at South Dakota State after several years as Director of Planning, Program and Budget.

Ernest Spittler, PD '77-78 (Ihde), writes from John Carroll U. in Cleveland that apparently retirement has not kept his mentor from continuing his professional activities. Ernest is particularly happy about the Center for History of Chemistry being formed at Penn.

Marshall R. Sprinkle, PhD '32, particularly enjoyed the McElvain photos, particularly the one of his major prof., Norris Hall. His wife, the former Jean Miller, Home Ec '32, appreciated the obit of Margaret N. H'Doubler under whom she took dance instruction as a teenager. Marshall included a paragraph about his admiration for Mel Meloche whose wise counsel extended into later years of his students' lives. Both Sprinkles were happy to have visited the Ingrahams in May '80. They also had an overnight in Wake Forest, NC, with **Nevill** and Katherine **Isbell,** PhD '31 (Adkins) who now spend their winters in Clearwater, FL. Marshall reports that his 45,000 loblolly pines are growing by leaps and bounds.

Frederick J. Stare, BS '31 (PhD Biochem '35, MD Chicago), is co-author, with E. M. Whelon, of *The 100% Natural, Purely Organic, Cholesterol-Free, Megavitamin, Low-Carbohydrate Nutrition Hoax* (Athenaeum), a book which seeks to counter what the authors call a daily deluge of nutrition nonsense.

John H. Steele, MA '32 (Kahlenberg), reflects on the 50 years since leaving UW —23 years of teaching, 17 in power generating, and 10 years of active retirement on a mini-ranch in the high country of Colorado.

Cynthia M. Stein, MS '82 (Evans), is now employed by Intel Corp. in Chandler, AZ, where she is a Product-Process Engineer in a plant which fabricates integrated circuits. She is involved in yield analysis on finished wafers, process changes, new designs, and decision-making regarding manufacturing problems. She feels that semi-conductor manufacturing involves a lot of interesting chemistry.

Charlene Steinberg, BS '46, MS '48 (Ihde), has been promoted to full professor at UW-Sheboygan, the first such promotion of a non-PhD in that department. She has also received an award for meritorious service from the Wisconsin Collegiate Athletic Conference for her work in coaching the tennis team, the first such award to a coach who is not a member of an athletic department.

Gilbert Stork, PhD '45 (McElvain), has received another honor — the White House's National Medal of Science, for his research on synthesis of biologically active compounds. Of the 12 awards in '83, eight went to scientists in fields related to chemistry.

Robert H. Stow, BS '40, is now the most senior scientist in the electrical products division of 3M where he has had broad experience in developing and producing electrical tapes. He reports great satisfaction in reading Mrs. Daniels' biography of Farrington for whom he worked as a student-helper.

Roberta Hemming Svacha, BS '49, was helpful to the editor in tracking down the death date of Carbon Petroleum Dubbs, inventor of a thermal process for cracking petroleum and one of the founding officers of Universal Oil Products. Roberta has been in UOP's Patent Department as Patent Status Systems Supervisor for the past eight years. She has been involved in computerizing the Corp.'s 9,000 patents by inventor, division, subject and process.

Marge Huber Svoboda, BS '43, MS '47 (Bender), reports a special treat for Thanksgiving '82 when two daughters and family joined her. Marge confesses to enjoying playing grandma to Nicholas, 4, and Natalie, 2. She feels fortunate to be in the exciting field of growth factors at NCU-Chapel Hill.

John E. Tanner, Jr., PhD '66 (Stejskal), makes nuclear criticality safety calculations at the reprocessing plant of Exxon Nuclear Idaho Co.

Wesley Tarwid, BS '50, tells us that he retired from American Can Co. in '80 after 28 years. Wishing "...not to waste that excellent U of W training, I accepted a position with the Gordon Bartels Co. in Rockford, IL, working as a paint chemist." Wes reports having pleasant memories of working on his senior thesis in the old

(Continued on page 25, col. 1)

VET SCHOOL

The long awaited Veterinary School is finally built and is teaching its first class this fall. The impressive new red brick building is located on Linden Drive about a half-mile west of the Stock Pavilion. It is designed for heating, in part, by solar panels lining the entire south wall and has "beds" for 24 horses, 24 cows, 24 smaller animals (pigs, sheep, goats), and 120 pets. There are also examination rooms, operating rooms, a pharmacy, as well as student facilities. The first class of 42 men and 38 women is now at work with 45 faculty members. When fully operative, there will be 320 students, 87 faculty, and perhaps 100 grad students. The state had debated the need for a Vet School for 40 years while state students sought their education in slots allocated by Minnesota, Iowa, and Michigan. The legislature mandated the creation of the school in '79 over the objections of the UW Regents who questioned the wisdom of creating another expensive operation when state support of the university was already severely strained. It was further argued that the state would need less veterinarians as farming activities were shrinking. (Wisconsin now has more people than cows.) The legislature was not to be denied and $28 million was appropriated for construction.

This 'n That...

(Continued from page 24)

part of the (old) chem building under Ye Ed.

Robert F. Taylor, PhD '41 (McElvain), revived and rebuilt the Management Center of the College of St. Thomas into a regional leader, then resigned to spend more time with Personnel Law Services, Inc., an organization which prepares seminars and training in the personnel field, publishes a personnel law newsletter. Bob remarks, "If you can master Louis Kahlenberg's chemistry, you can do anything!"

Charles C. Templeton, PhD '48 (Hall), thinks that Larsen and Ortman "working at 1711 Degrees Calvin—sounds like a kind of Presbyterian Hell!" (Problem is, the Editor has spent too much time investigating Reformation alchemy at the expense of 19th century physics.) Chuck's wife loved the photo of Alice and Norris Hall—persuaded Chuck to send a nice check for the Endowment Fund in memory of Norris. A question for Chuck, Is the **Hugh L. Templeton,** PhD '25 (Fischer), any relation?

Glenn A. Terry, PhD '51 (Larsen), continues his fine support of the "cause," but no news.

John S. Thayer, PhD '64 (Cornwell), sent the most recent newsletter of the U. of Cincinnati chem dept. which is edited by John. Titled "The Chemical Bond," it has evidently been in existence for some time since this one is vol. XVI. no. 1 (Summer '83). This issue gave principal attention to Ralph Oesper, long-time professor of analytical chemistry at UC who left a sizeable legacy to the school to endow the Oesper Chemistry-Biology Library and for a History of Chemistry Fund now known as the Oesper Memorial. The latter fund is used primarily for the Oesper Memorial Lecture Series and for maintenance of the extensive collection of books and pictures dealing with the history of chemistry which Prof. Oesper gave to the university. **John P. Williams,** PD '75-76 (Treichel), holds the Oesper Chair which, besides teaching analytical chemistry involves historical contributions, particularly responsibility for organizing the annual Oesper Memorial Lectures. The Oesper Lecturer in '82 was John Sheehan, Emeritus Prof. at MIT and well known for his synthesis of penicillin. A parallel symposium in Sheehan's honor heard six invited speakers including Wisconsin's Vilas Professor Barry M. Trost whose title was "Selectivity in Organic Synthesis."

Quentin E. Thompson, PhD '51 (Johnson), is still at Monsanto doing research on new products. Since **Loren Bannister,** PhD '53 (McElvain), and **Ronald Morse,** PhD '68 (Zimmerman) are down the hall, they continue to exchange weird anecdotes about their UW profs.

Thomas Tischer, PhD '61 (Leussing), continues at Eastman Kodak in patent liaison work for the research labs. Still single and travels on trains as frequently as possible.

Roland Trytten, PhD '41 (Sorum), has retired one year short of the Orwellian 1984 but still teaches a section of chem 115 at UW-Stevens Point. Successful open-heart surgery hurried the retirement. With his TRS-80 computer he is entering the computer age.

Charles W. Tullock, PhD '38 (McElvain), says that the picture, "Thanksgiving at the McElvains" brought back memories of a group of wonderful people. My — how young they look."

Carl Turnquist, PhD '72 (Taylor), was promoted last November to Engineering Manager in the New Product Development Dept. of the USCI Cardiology & Radiology Division of C. R. Bard, Inc. in Billerica, MA. Carl includes greetings to Ye Ed from his wife who, as Janice Cook, was one of his students in ILS. USCI stands for United States Catheter and Instrument Corp. for the medically unsophisticated; ILS stands for Integrated Liberal Studies, the UW general education program in which Ihde taught his Physical Universe course between '48-80.

Vernon A. Uchtman, PhD '68 (Dahl), is with Procter and Gamble as manager of the Pharmaceutical Div.

Frank J. Van Wyk, BA '27, of Rolla, MO, wrote for the Florida address of **John T. Hale,** BS '26, whose death was reported last year. Frank and John literally grew up together but lost touch later. We were unable to supply the Florida address but had an active one for Wilmington.

Paul J. Vincenti, PhD '82 (Treichel), is now with the Consumer Products Research Division, American Cyanamid in NJ.

Thomas G. Waddell, BS '66 (PhD UCLA '69), reports his research on Appalachian medicinal plants is going well.

Carol Hermann Wallce, PhD '49 (Willard), writes that she and her husband are now settled in Bedford, MA, near both sons who work in local high tech industries. Her husband is back in private practice doing a lot of child psychiatry and seeing whole families for therapy. Carol refuses to say that she has finished teaching chemistry, but suspects that she has.

Edward J. Walsh, PhD '68 (Berson), has been at Eastman Kodak since '69. Is currently research associate in color photography.

Terence S. Wan, BS '76, who did a senior thesis under West, finds it odd that he has moved east ever since. After joining Prof. Baldwin's group at MIT he followed Baldwin to Oxford in '78, completing his PhD (awarded by MIT) in '80. A postdoc year at Hofmann-LaRoche followed at Basle before returning to Hong Kong. He is now associated with the Racing Lab of the Royal Hong Kong Jockey Club where he is involved in detection of drugs in race horses. **David K. K. Leung,** MS '75, is also at the Racing Lab.

Mark P. Warchol, PhD '78 (Vaughan), was disappointed that the great university at Austin, TX, fails to hold the *Transactions of the Wisconsin Academy,* the journal which published the short version of Ihde's overview of the UW chem dept.

Dale Warren, PD '71-72 (Ihde), reports moving into a lakeside farmhouse about 25 miles from Kalamazoo where he is in the chem department at Western Mich. U.

Winston J. Wayne, PhD '40 (Adkins), found the McElvain pictures fascinating

(Continued on page 26, col. 3)

ANDERSON RECEIVES HUDSON AWARD

The same issue of CEN that announced the Gudeman-Woods honor, also announced that Laurens Anderson, PhD '50 in biochem and a faculty member in the Biochem Dept. ever since, will receive the Claude S. Hudson Award in Carbohydrate Chem next spring. A student of Henry Lardy, Laurens has had a record of continuous achievement in unraveling the chemistry of carbohydrates, including proof of the all-trans configuration of the streptamine portion of the antibiotic streptomycin, synthesis of several inositol derivatives, characterization of several antibiotics, determination of the absolute configuration of inositol ethers, and study of tautomerization kinetics of 2-deoxyribose and D-galactose, synthetic chemistry of oligosaccharides, properties of hydrolytic enzymes, the cyanogenic glycosides of the sorghum plant, and the chemistry of phosphoproteins. He was named Steenbock Professor of Biomolecular Structure in '81. The Hudson Award is sponsored by two divisions of Merck & Co. and honors Claude Hudson who was one of the world's leading carbohydrate chemists while with the Bureau of Chemistry, and later with a precursor of the National Institutes of Health.

THE OLD RED GYM

The Old Red Gym on Langdon St., sometimes known as the Armory, still stands. Despite the wishes of its detractors it will probably be around for some time. In 1974, UW architect Gordon Orr led a move to have the gym and 10 other structures in the Hill Area (including Bascom, North, South Halls) declared landmark buildings with protection in the National Registry of Historic Places. Nevertheless, the debate about the Gym's future continues between those who label it an archaic monstrosity and those who consider it a turn-of-the-century gem. In the past 20 years it has been marked for demolition to make way for a grassy mall over an underground parking garage (which would be below lake level!), a faculty club, or a new athletic facility. None of these materialized because of higher priority for other facilities. In the meantime, the structure has served as a registration center, a site for student sports activities, and as space for low priority university programs.

Registration was held in the Red Gym for the last time this fall. By January a new Phy Ed Building will be completed on W. Dayton St. in the area of the Southeast Dorms (Sellery, Ogg, Witte) and it will be available for registration, as well as for student physical activities. In the meantime, applicants for space in the Red Gym are lining up. Serious proposals include: a grad center for the visual arts, expansion of University Extension, office of student affairs, and a facility for student computer terminals. Before such decisions can be made, further renovation will be essential. The gym needs a new roof and restoration of the first floor where a 1970 fire-bombing caused extensive damage which has never been corrected. A recent expenditure of $150,000 has upgraded fire safety and improved access for the handicapped. The building is considered structurally sound. Replacement by a facility of similar size would cost in excess of $7 million.

The Red Gym has a fascinating history. Opened as a joint facility for the military and athletic programs in 1894, it served both very well until World War I, and less effectively until WWII.

Exciting basketball was played on the second floor most of the Meanwell era but seating for spectators ultimately limited student season tickets to only three games per season. Construction of the Field House at the south end of the Stadium permitted basketball to be played in the finest facility in the Big Ten, though it ultimately became one of the poorest.

Other sports mostly continued in the Red Gym or used adjacent facilities such as the Annex for indoor track, early baseball practice, and the crew held winter practice on rowing machines in the loft while waiting for Lake Mendota to unfreeze so that practice could be had in real shells housed in the Boat House behind the Gym.

Other activities abandoned the Red Gym over the years as space needs increased and other facilities became available. Army ROTC left the Red Gym in '73 and is now housed in the former Nurses Dorm on University Ave., and uses the Memorial Practice Bldg. for indoor drill.

The Memorial Practice Bldg., also known as the Practice Shell, was opened in 1956 after construction east of the Stadium on the site of the Camp Randall Trailer Camp used by students attending the university on GI Bill after World War II. The Shell is an enormous open structure large enough to cover a football field, though it has had limited use for football practice. It is heavily used by the Track Team which holds its indoor meets there. The Gym Annex formerly used for track and other sports was razed to provide space for the Wisconsin Center which opened in '58. The Center is the house of the Wisconsin Foundation and provides facilities for conferences, workshops, and other educational events. The Practice Shell is also used for practice by frosh basketball, hockey, and baseball teams. Tennis used the Shell until the Nielsen Tennis Stadium, located north of the Forest Products Lab, was opened in '68.

The swimming squad finally abandoned the Red Gym "bath tub" for a new Natatorium in '63. It is located on Observatory Drive near the Elm Drive Dorms, the Intramural Fields and Guy Lowman Baseball Field. Physical Ed Units linked to the Natatorium provide facilities for student exercise as well as practice and dressing facilities. Incidentally, *required* physical education and ROTC are long gone. However, many students not involved in team sports use the sports facilities very extensively. It was because of such pressures that the new Phy Ed Bldg. was constructed on Dayton St.

The crew squad was the last to abandon the Red Gym as a dressing and winter practice facility. Their new Crew House on the lakeshore between Adams Hall and the Short Course Dorm was occupied in '67. At that time the Boat House was razed to make way for Alumni House (directly across Lake St. from the AXE house).

Although athletic facilities are vastly improved over Red Gym days, pressure is critical. The rapid introduction of women's intercollegiate sports in the past decade has placed a grave squeeze on practice facilities for virtually every sport. The problem is further exacerbated by the greater emphasis on training and conditioning compared to forty years ago. The baseball team needs a field which does not become a swamp with every spring rain, together with dressing quarters nearby. The outdoor track also needs dressing quarters near their quite good track. The crew squad needs another rowing tank, another bay for shells and dressing quarters for the women who are doing a fine job at the national level under the coaching of Sue Ela, Prof. Willard's niece, who was among those who initiated women's rowing a decade ago.

The Red Gym served not only as an ROTC and athletic facility in its day but as a center for university and community affairs. In its early years it served as the site for the Junior Prom and Military Ball. Commencement was held there until the Stock Pavilion provided larger quarters.

Public concerts included evenings with violinist Fritz Kreisler and cellist Pablo Casals. The walls reverberated to the political speeches of William Jennings Bryan and the first Robert M. LaFollette, as well as the lectures of visiting academics. One of Bryan's later talks led to an attack by Dean E. A. Birge who took issue of Bryan's position on evolution. On other occasions, Birge was responsible, as president, for denying university facilities to such politically suspect speakers as the late Socialist Scott Nearing.

The Red Gym frequently served, in its early days, as the site of state political conventions. At the Republican Convention in 1904, the LaFollette progressives successively challenged the Stalwart wing of the party for control of the Statehouse.

The Red Gym no longer houses such momentous events in the field of politics, academia, and sports, but there is a strong probability that it still has a future as a campus landmark.

This 'n That. . .

(Continued from page 25)

since they came from his era. Provided information on Weber and Whitman and failed to identify the unidentified. Gerald Whitman is retired from Du Pont and lives in the Virgin Islands. Winston retired from Du Pont in '80 after 40 years but lives in the home he has had for 35 years. His wife, the former Jean McPherson is Home Ec '40. Keeps busy with garden, maintenance, volunteer work, and hobbies, primarily bird watching, and visiting two daughters and grandchildren.

Karl H. Weber, PhD '41 (McElvain), retired in '80 after 32 years of service in the CIA, the later years as Director of Scientific Intelligence. He now pursues his lifelong hobby of bird watching more intensively and has just attained the goal of seeing half (4,500 species) of the world's birds. No plans to retire from the pursuit.

(Continued on page 27, col. 1)

SNAFU

BC was not only late getting out last year, but some copies were grossly imperfect. Mixed in with the complete copies were some that should have been printer's rejects, but hadn't been thrown out. For some reason a number of copies lacked pages 7-22. Some others lacked 7-22 but contained 1-6 and 23-28 twice. A few others were not printed on the front and end covers. The latter were caught but the others went out.

Very shortly after mailing we began receiving irate letters from "subscribers" protesting the omissions. Fortunately, we had some surplus copies and everyone who protested received a complete copy. We have no idea how many failed to protest. Anyone still wishing a substitute may still apply for we still have some complete copies.

Sorry about the snafu. However, the persons stuffing envelopes cannot possibly catch missing pages in the interior. Since we sent out less than 20 replacements we concluded the number of garbled copies was not great. We were jittery for a while though.

This 'n That...

(Continued from page 26)

Karl was saddened by the report of Helen McElvain's death.

Daniel Wellman, PhD '83 (West), is now in the dept. of physics in U. of Cal-Santa Barbara.

Joseph T. Westrich, BS '75, completed a PhD in Geochemistry last May at Yale and is now with Getty Oil in Houston.

Richard P. White, Jr., PhD '70 (Dahl), left Madison to do polymer rheology research for GE in Schenectady. Rick and Monterey's two children were born there but the kids still can't spell their birthplace! Mid '74 saw a switch in employers to Exxon Chemicals in Baytown, TX-where Rick worked on the development of grafted polyolefins. Their third child is a second generation Texan. Then Rick switched (1976) to Ziegler catalyst development, which seems like an appropriate career for a person who worked under Larry Dahl. To carry this development to commercial reality, Rick transferred to manufacturing (1980), but had to transfer back (1982) when through with this task and the economic downturn shut down some of the polyolefin units. He now works as a polymer analytical chemist.

Paul E. Whitson, PhD '74 (Evans), is an electrochemist with the Environmental and Process Instrument Division of Bendix Corp., Largo, FL.

Bennett R. Willeford, PhD '51 (Hall), continues to grieve over the Bladel affair. Says, "There must have been a better way." Ben and a colleague planned an all-day program for the cancellation of the new Priestley Stamp in Northumberland, PA, where Priestley spent his last years and is buried. Michael Payne spoke on Priestley's relationships with Tom Paine and Wm. Blake, Fred Basolo on synthetic oxygen carriers, and after the Banquet, Badger Chemist **Erwin Hiebert,** PhD '54, on Priestley's science and religion.

Robert A. Willihnganz, BS '37 (DJ Wayne State), says skiing has given way to less active forms of recreation now that he is semi-retired in Rochester, MI. He planned a winter tour of ancient Mexican ruins followed by a month on a Florida beach. Continues his work in Environmental Law.

Alvin Gustav Winger, PhD '52 (Bender), was missed in the report on Prof. Walters which included alumni who did undergraduate work at St. Olaf's College in last year's *Badger Chemist.* An inquiry from Al Preuss unearthed this additional St. Olaf alumnus. A further check reveals that alumnus **John Blair** is presently at Wisconsin doing grad work with Prof. Weisshaar in Theoretical Chem.

Earle H. Winslow, PhD '29 (Walton), looks back with pleasure at the four years spent at the UW and is very grateful for it. He served GE for 32 years before retirement about 20 years ago.

Lloyd Withrow, PhD '25 (Walton), 20 years retired from the engineering labs of GM, is "still breathing, eating regularly, mowing my own lawn and shoveling my own snow. . .Moreover, I find CEN a welcome relief from all the dribble about Reagonomics."

Warren W. Woessner, PhD '71 (Whitlock), welcomed Paul Schatz to the editorship in his Christmas note. Warren finished UW Law School in '81 and is an attorney with a patent law firm in NYC. Warren is the son of the late **Warren Woessner,** PhD '40 (Schuette), who spent many years with Du Pont in NJ.

Eugene Woroch, BS '44, PhD '48 (Johnson), has completed 25 years at Abbott. Many Badgers are employed there, mainly in pharmacy and microbiology. Since the retirement of **Warren Close,** PhD '46 (Wilds), some years ago, only **Daniel Dunnigan,** MS '49, **Thomas Herrin,** BS '64, and Gene represent Badger Chemists in the research area.

Y. Stephen Yamamoto, BS '65, was among those who received the abbreviated *Badger Chemist* last year. Again, we're sorry.

Raymond G. Zehnpfennig, BS '36, PhD '41 (Schuette), spent several weeks in Madison last May in order to help celebrate his mother's 92nd birthday. Ray is chief chemist with James M. Montgomery, Consulting Engineers, Inc. of Pasadena, CA. The company is active in the field of water pollution control. Ray and Ye Ed had a pleasant evening reminiscing about the superiority of the good old days around 1940.

LATE MISCELLANY

Alan L. Soli, PhD '78 (Schrag) writes that he and Nancy have welcomed a new daughter, Rachel. Teaching at Ekerd College in St. Petersburg is going well.

Luther Erickson, PhD '59 (Alberty) (BS St. Olaf) spent the second semester in the department on his sabbatical from Grinnell where he is Dodge Prof. of Chem. He learned the intricacies of x-ray crystallography in Dahl's course and worked with Ken Haller to establish the structures of two isomers of olefin-amino acid complexes of Pt(II) which he had been studying at Grinnell. Also used the line nmr facilities, much advanced since Paul Bender introduced him to the technique in '58. Luther was one of 4 Catalyst Award winners for '83. The award was made at the June meeting of the Chem. Mfgrs. Assoc. and Luther was selected to speak on behalf of the awardees.

Henning Hopf, visiting prof at the UW several years ago, returned in August to give a special organic seminar on New Derivatives of Vitamin A. He is Professor of Chem at Braunschweig.

John Walters, formerly of the UW analytical faculty and now at St. Olaf College, has been active in developing microcomputer applications for student use. The results will be the basis for a presentation at the St. Louis ACS meeting next spring when a plenary session will honor his former research director at Illinois, Badger Chemist **Howard V. Malmstadt,** PhD '50 (Blaedel), when he receives the Analytical Division's Award for Excellence in Teaching. John was a speaker at the Rocky Mountain Spectroscopy Conf. in August and at the LABCON conference on spectroscopy in Chicago in September. Both papers are an outgrowth of John's collaborative research with colleagues in industry or government labs on the use of computers to control chemical instrumentation.

Daniel Stogryn, PhD '59 (Hirschfelder), is a member of the Physical Sciences and Math faculty and coordinator of Computer Services at Mount St. Mary College in Los Angeles.

NEW BADGER CHEMISTS

We list below the names of students who received degrees in the Department of Chemistry between July 1, 1982, and June 30, 1983. Also included are two students who completed doctorates in History of Science with Emeritus Prof. Ihde. As of this moment we do not have information on industrial placements of graduates. (When available we include such news in This 'n' That.) The major professors of advanced degree holders are included.

Bachelor's Degrees

ANGLE, Darlene J.
BANSEMER, Ricky L.
BOWERS, Perry Christopher
CAMPBELL, William H.
CRARY, Kevin Eugene
HART, James R.
HOLLAND, Ronald Alexander
HUTH, Joel Bendrick
KALINKE, Tom Howard
KEATING, Kelly Anne
KOSEDNAR, David Gerard
MALLMANN, Thomas Kenneth
MILOSEVICH, Zoran
MISHARK, Kenneth James
PETERSON, Brian Harold
RADUNSKY, Michael Benjamin
ROBERTS, Dean Edward
SCHLOM, Peter John
SCHREINER, Kathy J.
SEGALOFF, David Simon
SPINDLER, Ralph E.
STENBORG, Charles E.
SZUPICA, Christopher Jan
WILSON, Matthew Charles
ZEJDLIK, Lisa Suzanne
ZUFFA, Janet Lynn

Master's Degrees

RAMPONI, Albert Joseph	Wright
RITTER, David A.	Crim
STEIN, Cynthia Mae	Evans
WEIBEL, Victor Joseph	Evans

Doctoral Degrees

BALE, Marsha D.	Ferry
BARNHART, Steven George	Walters
BRAUNLIN, William H.	Record
CARLSON, Corey W.	West
COPELAND, Richard Alan	Crim
DIBBS, Mitchell Gene	Schrag
FISH, David Elliott	Harriman
GAPINSKI, Darrell Mark	Vedejs
GRANICK, Steve	Ferry
GUDEMAN, Christopher S.	Woods
HAMLIN, Christopher	Ihde
HARSY, Stephen Glen	Casey
HELLMER, Debra Collander	Walters
HEPPERT, Joseph Anthony	Gaines
HOCHHEISER, Sheldon	Ihde
HVIDT, Soren	Ferry
JANMEY, Paul Albert	Ferry
JURSICH, Gregory Michael	Crim
KELLER, Paul Richard	Taylor
KOSTIC, Nenad	Fenske
MATHEWS, Samuel Edward	Walters
McDOUGAL, PATRICK G.	Trost
MEYER, Phyllis Ireton	Vaughan
MILLER, William Harold	Vedejs
MONTAG, Ruth Ann	Dahl
MURPHY, Mark Alan	Dahl
NELSON, Caterina K.	Gaines
O'CONNELL, Kathleen M.	Evans
OLECIK, Susan Virginia	Taylor
OLSON, Richard Eric	Reich
PEARSON, William Hardy	Trost
RICH, Jonathan David	West
SCHLESENER, Connie J.	Ellis
SHANER, Sandra Lee	Record
STRECKERT, Holger H.	Ellis
VINCENTI, Paul Joseph	Trost
VOLLENDORF, Nicholas W.	Casey
WELLMAN, Daniel Everett	West
WESENBERG, Gary Edwin	Vaughan

Badger Chemist survives only because of the devotion of a handful of faithful workers in the Chem. Bldg., stimulated by the checks, unused foreign coins, barter items, exhortations, pleadings, and threats of Friends of the Chemistry Department. The checks are the most stimulating. Keep them coming so the new editor never suffers on the rack the way the retiring editor did when he was almost torn limb from torso by an unpaid printer and his hit squad a few years ago.

AJI

Please send appropriate aid! Make checks out to: Wisconsin Foundation — Badger Chemist Fund, and mail, **together with news,** (or without news, or if broke, with news only), to:

Paul F. Schatz, Editor
Badger Chemist
Department of Chemistry
1101 University Avenue
Madison, WI 53706

PROGRESS REPORT — HISTORY

Now that his 13-year tour of duty as editor is ended, Aaron Ihde has no reason to procrastinate further in finishing the Departmental History which he has been working on for years. It was Chairman Fenske who persuaded him to undertake the job. That was three chairmanships ago! In the meantime he has prepared his *Development of Modern Chemistry* for publication in a paperback edition, completed a substantial study of the history of food standards, and finished several other projects. A concentrated push should lead to a finished manuscript in another six months.

Of course the subsidy problem is still not fully resolved. The response to the Pre-Publication Form included in last year's BC was good, but not sufficiently overwhelming to drastically cut the need for a substantial subsidy, originally estimated at a $20,000 level after review of the first seven chapters by the UW Press two years ago. While we would prefer publication of a quality book by the Press, it may be necessary to explore alternative options, such as preparation of a much less comprehensive manuscript with less illustrations and less interpretation.

RE: ADDRESSES

The problem of up-to-date addresses is a continuing one for BC. Alumni Records Office now provides an 800, toll-free number whereby a change of address can be phoned in without cost to you. Simply call the appropriate number listed below between 7:45-11:45 a.m. or 12:30-4:30 p.m. Central Time, Monday through Friday.

1-800-362-3020 if calling within Wisconsin (except Madison area)

1-800-262-6243 if calling from outside Wisconsin (exc. AL & HI)

Please ask Alumni Records to report the change to: Debbie Lauder at 2-0806.