

Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 19 May 1972

University of Wisconsin--Madison. ; Dept. of Chemistry
Madison, Wisconsin: Dept. of Chemistry, University of Wisconsin,
May 1972

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

<http://rightsstatements.org/vocab/InC/1.0/>

For information on re-use, see

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

BADGER CHEMIST

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

Newsletter 19

May 1972

PROFESSOR HOLT TO RETIRE

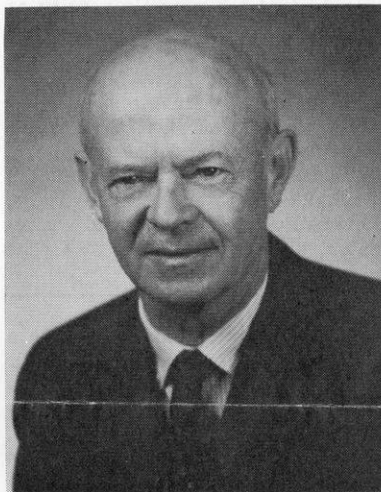
M. Leslie Holt, whose association with the chemistry department began in 1926, has announced his intention to retire at the end of the present academic year. Born in Ellsworth, Iowa on June 19, 1904, Les was the son of Peter and Olive M. (Lyders) Holt. His father ran a general store. After graduation from Ellsworth High School, Les matriculated at St. Olaf College, a school favored by the Holt family.

Chemistry was taught at St. Olaf by Paul Maurice Glasoe and Emil Oscar Ellingson. Professor Glasoe (1873-1956), a Minnesota native, had been educated at University of Minnesota, taking the Ph.D. in 1902. He was the father of Badger Chemist Paul K. Glasoe, Ph.D. '38, who is presently on the chemistry faculty at Wittenberg College. Professor Ellingson (1877-1968) was also a Minnesota native. He took his B.A. at St. Olaf in 1906. He taught at St. Olaf for three years, then did graduate work under Louis Kahlenberg at Wisconsin, receiving the Ph.D. in 1912. He remained on the staff at Wisconsin until 1919 when he returned to St. Olaf. He became chairman of the department in 1924, a position he held until 1949. Professor Ellingson was responsible for many St. Olaf alumni doing graduate work at Wisconsin (according to Professor Schuette's article on "Ole's among our Ph.D. Alumni" in Badger Chemist No. 2, 52 of St. Olaf's seniors went on to earn the doctorate in 14 different universities, 14 of them doing so at Wisconsin.)

Graduate Study

When Les completed his B.A. at St. Olaf in 1926 he was about to accept a high school position as a science teacher when he heard that Professor Kahlenberg was looking for a lecture assistant at Wisconsin. Les applied and was accepted. His predecessor as lecture assistant, Harold (Whitey) Fevold, Ph.D. '28, also of St. Olaf, warned Les that no L.A. ever knew what Kah-

lenberg wanted for a lecture. Les managed by anticipating the probable lecture topic, then setting out on the table every possible chem-



Professor Holt

ical and piece of apparatus that might be relevant. Kahlenberg decided just before class what he wanted—but frequently the L.A. was sent to the back room for something else during the course of the lecture. After one year the lecture assistantship was passed on to another novice and Les became a teaching assistant.

He carried out his research under Kahlenberg, a man who was full of ideas, but frequently prone to jump to conclusions on the basis of limited evidence. Les received the M.S. in 1928, the Ph.D. in 1930. His dissertation, entitled "Couples in the titration of acids and bases," dealt with the behavior of electrical couples containing tungsten and other metals.

Faculty Member

Dr. Holt became an instructor of chemistry in 1930 and remained in continuous association with the chemistry faculty at Wisconsin. He took on responsibility for teaching chemistry to the engineering fresh-

men, at first as Kahlenberg's right hand and then, following Kahlenberg's retirement in 1940, carried on these responsibilities with little assistance from regular faculty. His devotion to his engineering students, coupled with a deep sense of responsibility, caused him to be a faculty member who always car-

(Continued on page 3, col. 2)

MERGER

Merger is the keyword which has characterized the past year at the University of Wisconsin. When Patrick Lucey took over the office of Governor of Wisconsin in January 1971 hardly anyone suspected that the university would be the subject of major political controversy. In his budget message to the legislature Governor Lucey asked for merger of the State Universities (formerly State Colleges and before that, State Teachers Colleges) into a statewide University of Wisconsin system. Rationale for the merger was economy, presumably based on elimination of duplicate administrative costs, coupled with a feeling that the University and State University systems were involved in competitive duplication of programs, especially at the graduate level.

The merger proposal, alongside a proposed tax redistribution formula, occupied the major part of the legislature's time until November. The Madison campus was generally unenthusiastic about the merger, as were many legislators. While the Democratic Assembly felt an obligation to support the governor, the Republican Senate felt an obligation to oppose him. A further impasse was created when the governor announced that he would veto any budget which failed to provide for a merged system of higher education.

July 1 arrived with no budget passed so the university was forced to operate on the previous year's

(Continued on page 2, col. 2)

BADGER CHEMIST

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

Editor

Aaron J. Ihde, Ph.D. '41

Henry A. Schuette, Ph.D. '16

Editor Emeritus

Editorial Associates

M. L. Holt, Ph.D. '30

Edwin M. Larsen, B.S. '37, Ph.D.

(Ohio State '42)

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

Editorial Assistants

Paulette England, Grace Legler

Bette Germann

Please address all communications to

The Editor, Badger Chemist
Chemistry Building
Madison, Wisconsin 53706

The Editor Screams, "HELP"

The future of this Newsletter is in jeopardy. The editorial in last year's issue of Badger Chemist, suggesting that the financial status of the newsletter was in good shape, appears to have been taken at face value. Hardly anyone contributed!

Through a sequence of circumstances the finances proved to be misjudged badly and this issue is being sent out on sheer faith that enough alumni are interested in keeping the newsletter coming that they will bail the publication out of its dilemma.

Here are the facts:

1. Contributions following B. C. No. 17 (Feb. 1970) were excellent—in fact, the best they had ever been. When B.C. No. 18 was sent to the printers last spring there was every evidence that available funds

Merger . . .

(Continued from page 1)

budget until November. In the meantime, the President's price-wage freeze further complicated the university's financial operations. A budget was finally passed four months into the fiscal year, together with a merger bill.

A single Board of Regents was created by combining the existing boards of the two systems. The new board selected John Weaver, president of the former University system to become the first president of the new University of Wisconsin System, now consisting of the Madison campus, the four-year UW campuses at Milwaukee, Parkside (near Racine and Kenosha), and Green Bay, the former State Universities at Eau Claire, La Crosse, Oshkosh, Menomonie (Stout), Platteville, River Falls, Stevens Point, Superior, and White-water, plus a number of two-year

would cover costs and leave a nest egg for No. 19 (this one).

2. Because of a surfeit of news No. 18 was about one third larger than No. 17 (The Editor used bad judgment and should be fired!).
3. The printer's bill was 90% above No. 17. In part this was due to increased pages and pictures (the Editor's bad judgment, he clearly should be fired—but in substantial part it was due to inflation so the printer should be fired!).
4. Just before mailing No. 18, postage costs went up substantially (the postal service should be fired!).

Hence, although last year's editorial carried an optimistic note, it was based on failure to anticipate increased costs. Unfortunately, it apparently suggested to alumni that all was well and they might skip their usual contribution for a year. Very few contributions were received.

In response to a distress call the Chemistry Department Faculty responded nobly and prevented total disaster. Despite this, a part of last year's printing bill remains unpaid and this year's newsletter is sent out with a prayer that reader support will save the editor from a jail term for failure to pay bills.

A. J. I.

Centers and the University Extension.

Administration of the new system is centered in Madison where President Weaver operates in the upper floors of Van Hise Hall. Each four-year unit will be administered by a chancellor, each two-year center by a dean. It is supposed that each unit will take on a characteristic "mission" and will



President John Weaver

be organized, budgeted, and staffed for the accomplishment of its specific mission.

No one can be sure of the effect of merger on the Madison campus. It is presumed that it will continue to play a major role in Wisconsin education. With a present enrollment of 34,000 and a faculty of 3000 it is the largest unit in the system. Future growth at Madison will probably be slowed or even halted, at least at the undergraduate level. There has been no serious suggestion that the graduate program will be curtailed.

Russ Riley Honored

On June 4, 1971 there was a reception in the Alumni Room in recognition of the 20th anniversary of Russell Riley's joining the staff of the department. Russ started when the shop was a one man operation under Lee Henke; it has now grown to substantial proportions with Russ in charge.

ABOUT THE FACULTY . . .

Michael Berry was awarded a Merck Faculty Development Grant in June, 1971.

Walter J. Blaedel's 1970-71 academic year was spent on leave at the University of Georgia, teaching analytical chemistry and writing a new text on elementary analytical chemistry. The text was half finished during the leave, and he hopes to finish the rest at Wisconsin during the 1971-72 year.

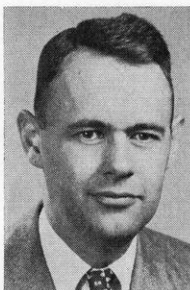
While living in Athens, Georgia, Barbara and Wally spent many pleasant weekends visiting Georgia's colorful old cities—larger ones like Atlanta, Savannah, and Augusta, and smaller ones like Washington, Madison, and Warm Springs. The northern Georgia mountains, St. Simeons, Jekyll Island, the ante bellum houses, and reconstructed areas were memorable, and so was spring on the campus in Athens with its unbelievable azaleas and dogwood. It was a refreshing year enhanced by true southern hospitality.

The Annual C. D. Cornwell Canoe Trip took place on May 29-31, 1971. Eight craft carried 16 chemists about 110 miles from Hayward to Grantsburg down the Namekagan and St. Croix Rivers. Faculty certified to have survived the trip include **Worth Vaughan, Tom Record, Tom Whitesides, Hyuk Yu, Dan Cornwell, Dennis Evans, Don Gaines, Ian Dance, Dave Crosley, Claude Woods, Steve Nelsen, and Phil Certain.** Others on the trip were Bob Bird, Ph.D. '50, Frank Pilar, Stu Cooper, and John Andregg. First prize for hydrophilicity went to Woods and Nelsen.

Dennis Evans has presented colloquia at University of Cincinnati and University of Wisconsin-Milwaukee. He also presented a paper at the symposium on New Directions in Organic Electrochemistry at the meeting of the Electrochemical Society in Washington.

Marion O'Leary has been serving as a consultant with the state on problems involving mercury pollution.

John Schrag participated in the IUPAC meeting in Boston last July as an invited speaker in the symposium on "Dynamics of Conformation Change in Macromolecules." John's university appointment is now full time in chemistry. He had originally been on divided appointment with Engineering.



John Ferry has been notified by the Institution of the Rubber Industry, London of his selection to receive the Colwyn Medal for 1971. The presentation is to be made at Brighton, England in

July at the meeting of the International Rubber Conference. The Colwyn Medal "is awarded for outstanding services to the industry of a scientific, technical or engineering character."

Harland Goering was hospitalized in December as a result of severe cholangitis and was in critical condition for many weeks. His condition has been improving recently and everyone is hopeful that he will be able to resume his work next fall.

Associate Chairman **Alex Kotch** has been making site visits at schools in Michigan, Illinois, and Missouri in connection with his role as examiner for the North Central Association of Colleges and Secondary Schools. He also serves as Secretary-Treasurer of the Wisconsin Section of the ACS. A camping trip last summer with his family took them over more than 6000 miles of the West.

(Continued on page 4, col. 1)

Holt Retirement . . .

(Continued from page 1)

ried more than his share of the load.

In addition to his undergraduate course responsibility, he carried on an active research program in electrochemistry, including the direction of Ph.D. candidates. At the present moment he is engaged in revision of the chapter on "Uncommon Metals" for the new edition of "Modern Electroplating" which will be published sometime in 1973 by the Electrochemical Society. He also initiated a new course in Advanced Inorganic Chemistry which dealt with the chemistry of the less common elements.

A year's leave of absence was taken in 1945-46 in order to serve with the U.S. Army's University

program in France. He taught chemistry to G.I.'s at the Biarritz American University. Equipment was picked up on a trip to Germany and used by G.I. students who were stationed in southern France but awaiting discharge so that they could get on with their education. The teachers were civilians carrying simulated rank; Les carried that of Colonel. His association with the project was terminated in 1946 when Professor Mathews sent out a distress call asking him to return to Madison to help take care of the flood of students appearing on the campus.

After that crisis was in hand Les spent a year at the Argonne National Laboratory in 1950 as a Visiting Senior Scientist. His immediate objective was to learn if zirconium could be electroplated effectively. The answer was negative.

In 1952, when Farrington Daniels became chairman of the chemistry department, Les was asked to serve as associate chairman. He undertook the task with enthusiasm and filled it with distinction. This arrangement was continued during the chairmanship of John Ferry. Altogether, this spanned the period from 1952 to 1967.

Over the years Dr. Holt gave devoted service to the university by service on numerous committees. Of particular note is his work on the Committee of Occupational Deferment, and the Athletic Board. The latter appointment was made by the President of the University and covered a period of six years, beginning in 1951. Soon thereafter, Wisconsin won the first Big Ten football championship since 1912 and sent its first team to the Rose Bowl. Professor Holt and his bride, Gretchen, made the trip to Pasadena with the team. Because of his deep interest in sports, (he played a vigorous game of tennis until a decade ago, and is still an ardent skier and golfer), he took a deep interest in the problems of the Athletic Department.

Another deep loyalty was to Alpha Chi Sigma. He joined the fraternity shortly after coming to Madison for graduate work and lived at the house on Lake Street for many years after becoming a faculty member.

Skiing Plans

Gretchen Holt recently supplied the Editor with the following re-

(Continued on page 4, col. 3)

Faculty . . .

(Continued from page 3)

Bassam Z. Shakhshiri has been awarded a grant by the University's Central Administration toward the further development of a closed circuit television facility for use in undergraduate instruction in the Chemistry Department. The Madison campus faculty filed more than 125 proposals in response to an appeal for ideas for improvement of undergraduate instruction. The Madison Campus Review Committee recommended approval of 12 proposals. Five of these, including that of Professor Shakhshiri, have been funded and will now be implemented.

Barry M. Trost has been named recipient of a Camille and Henry Dreyfus Teacher Scholar Grant. During the past year he has given lectures at Harvard, Columbia, Illinois, Ohio State, Iowa State, Michigan State, Cornell, and Lawrence. He has also been named to the editorial board of "Organic Reactions".

The short course on "Modern Organic Synthesis" which has been given frequently in the ACS short



course series by Professors Ed Vedejs and Barry Trost is now available on tape as part of the ACS Audio Tapes.

Worth Vaughan has just completed a term as Chairman of the Wisconsin Section of the ACS. He is succeeded by **Larry Dahl**. **Alex Kotch** now serves as Secretary-Treasurer.

Howard E. Zimmerman received recognition for outstanding work in his field of organic photochemistry when the ACS Northeast Regional Section conferred its special award for 1971 on him at a meeting in Buffalo, New York on October 11-13. The award consists of an engrossed citation and an engraved silver medallion. Earlier recipients of these awards were R. J. Gillespie of MacMaster University, Fred Basolo of Northwestern and Donald H. Anderson of Eastman Kodak. Besides the plenary lecture at the Northeast Regional Meeting, Dr. Zimmerman has given lectures at Lawrence, Maryland, and at the Army Research Labs at Natick, and was chairman of the sessions of the Gordon Research Conference on Photochemistry.



Holt Retirement . . .

(Continued from page 3)

port on their skiing excursions, immediately past and projected.

Their interest in skiing has taken Professor and Mrs. Holt to three exciting and well-known Alpine ski resorts in as many years, making it possible to compare the skiing at Courcheval, Davos and, most recently, Chamonix valley, and to rate these slopes for their appeal and variety in mid-January at the time of semester break. A few hours in any of these areas can make a world of difference, promising marvelous skiing which becomes more marvelous with the advent of a fresh snowfall. However, any skier also knows the frustrations of too little snow at times! The answer is to ski where many slopes are available, all accessible by shuttle bus. The breathtaking beauty of mountains is always a source of delight, making the whole experience a memorable one.

The Holts report that the flights of large chartered groups of all ages are well-planned, offering pleasures of many kinds even for adventurous non-skiers. Mrs. Holt graduates for this as follows: Davos, A; Courcheval, B plus, and Chamonix, C plus.

What's wrong with skiing in America? Nothing at all. The nearest to the Alpine experience is available at Arapahoe in the Colorado Rockies. The Holts have enjoyed three periods of spring skiing at Easter break there with friends. More such junkets at home and abroad are planned for the years ahead.

All of us join in wishing Les many pleasant years in retirement. We know that, as a result of their various interests, he and Gretchen will enjoy many interesting experiences.

end of the Apollo program.

Last June, while serving as the ranking scientific member of the committee, Dr. Haskin carried samples of Apollo 11 and 12 lunar materials to Moscow in the first exchange of lunar materials with the Soviet Union. While in Moscow he toured the Soviet facilities for handling returned lunar materials and helped negotiate further exchanges of lunar samples and scientists. He carried three grams

(Continued on page 5, col. 1)

Moon Samples—Progress Report

For the past two years, Professor Larry Haskin has served on the 12-member Lunar Sample Analysis Planning Team. This committee is charged with advising NASA on maintaining the scientific integrity of the lunar samples and on their allocation to the 190 teams of investigators who have permission to study lunar samples. The committee meets regularly at the Manned Spacecraft Center near Houston, Texas. It has been instrumental in designing and improving the facilities in the Lunar Receiving Laboratory and the Lunar Curatorial Laboratories where the samples are handled.

A major task of the committee, which requires about three weeks after each Apollo mission, is to construct an allocation plan for NASA. Information about the lunar landing site, rough descriptions of

the samples returned, and the wishes and capabilities of the teams of investigators must be considered. The final allocation plan must optimize the scientific information from each sample, build in the appropriate investigations to relate studies of the samples to local and regional lunar "geology", and conserve as much of each sample in nearly pristine condition as is possible.

The committee also screens suggestions and requests from lunar sample investigators. It contributes to the plans and the design of equipment for lunar surface activities and sample transport back to Earth. The committee is endeavoring to obtain a firm commitment for a lasting curatorial facility so that lunar samples in the best scientific condition can be studied for many years after the

This 'n' That About Our Alumni

C. L. Aldridge, Ph.D. '52, has been named Scientific Advisor at the Esso Research Laboratories. Dr. Aldridge joined Esso following completion of his doctorate and has made extensive contributions in developing new processes for the handling of petroleum. He has more than 50 patents. A recent discovery in the field of catalysts has recently come into commercial operation.

John W. Allis, Ph.D. '65, is now with the Environmental Protection Agency in Rockville, Maryland.

J. Newton Ashworth, Ph.D. '48, is with the National Institutes of Health, Bethesda, Maryland.

Clayton Baldwin, M.S. '40, writes that he is working on water pollution control problems for Sunkist Growers. He and his wife had a pleasant 32 day tour of Norway, Finland, Sweden, Denmark, and Iceland last summer.



Edward S. Bloom, Ph.D. '40, was given special recognition in the January, 1972 issue of SPE Journal, the official publication of the Society of Plastics Engineers,

for his many services to the Society. He is associated with du Pont in Wilmington. His son Eric is a masters candidate in chemical engineering at University of Rochester.

The widow of **Augustus L. Barker, Ph.D. '22**, has made a gift of Dr. Barker's doctoral hood to the Department of Chemistry where it will be available for use of new graduates at commencement. Dr. Barker taught for many years at Ripon College. After re-

tirement from Ripon he joined the faculty of Alabama Polytechnical Institute. His death on 15 June, 1967 was reported in Newsletter No. 15. Mrs. Barker lives at 226 Marion Ave., Auburn, Alabama 36830. The Barker's elder daughter is now American Consul in Tel Aviv.

Frederick L. Browne, Ph.D. '21, continues in retirement from the Forest Products Laboratory. He lives at 3546 Lake Mendota Drive in Madison.

Albert Costa, Ph.D. '62, has been developing a new course at Duquesne University which will deal with the effect of science on society.

Paul Cross, Ph.D. '32, received the 1971 Pittsburgh Award sponsored by the Pittsburgh section of the ACS. The annual award is given "to those who have rendered distinguished service to chemistry and the community." Paul is trustee and special assistant to the president, Carnegie-Mellon University.

Edward B. Dismukes, Ph.D. '53, found Newsletter 18 both interesting and saddening, since it carried news of the passing of Dr. Mathews and Dr. Gosting and the heart of the old chemistry building. He noted that some of the professors he knew as a graduate student have left Madison and inquired about Professor Bender. We are happy to report that Professor Bender is very much a part of the U.W. Chemistry Department, where, as he says, "I keep a low profile." Ed is in Birmingham, Alabama, but gives no information about his activities.

Pablo Dobud-Urqueta, M.S. '64, received his Ph.D. degree at Simon Fraser University, Burnaby, British Columbia. On returning to the Instituto Central De Quimica at the University of Concepcion in Chile, he was elected Chairman of the Chemistry Department. He writes that it has been a pleasure to read about activities in Madison and hearing news of many of the professors he met when he was a graduate student.

Irving I. Domskey, Ph.D. '59, is now with the Armour-Dial Company where he is senior research chemist with the analytical group. He recently served as co-editor for Recent Advances in Gas Chromatography taught at Roosevelt University, Chicago between semesters for several years and has set up an evening course of advanced lectures in gas chromatography. The Domskey's have three children.

(Continued on page 6, col. 1)

Moon Samples . . .

(Continued from page 4)

of the lunar soil returned by the Russian Luna-16 mission from Moscow to Paris, where it was taken by a NASA official to Washington.

Dr. Haskin reports that although the samples of Luna-16 material was very small, it has proved to be very valuable in terms of advancing lunar science. Many investigators in the lunar sample program have had to learn to work with very small samples. Mineralogists and petrologists have learned to obtain detailed information on the nature of rocks by studying extensively fragments and glasses in thin sections less than one square millimeter in area. Dr. Haskin's research group now analyzes samples weighing only one milligram for trace elements present in concentrations in the range of parts-per-million to parts-per-billion. An accurate age was obtained by Cal Tech scientists using two separate methods on a fragment of basalt weighing only 62 mg. The compositional characteristics of the Luna-16 materials are significantly different from those of materials from the Apollo missions, even though they show several characteristics now regarded as general features of lunar crustal materials (e.g., very low concentrations of noble metals and relatively volatile elements).

For his contributions to lunar science, Dr. Haskin was awarded the NASA Exceptional Scientific Achievement Medal last October. His citation read as follows: "For his significant scientific accomplishments in the developments of rare earth chemistry for studying of igneous processes on earth, and the application of these techniques leading to an important understanding of the geochemistry of the moon. While carrying out this scientific research, he provided outstanding scientific leadership and management to the Lunar Sample Analysis Planning Team. His scientific achievement in the investigation of these rare earth elements and his guidance of the team have contributed significantly to the success of the scientific analyses of the lunar samples."

Dr. Haskin, who joined the Wisconsin faculty in 1960 after receiving his Ph.D. in radiochemistry at the University of Kansas, is currently serving as chairman of the Analytical Division. He is the author of the recently published paperback textbook, "The Atomic Nucleus and Chemistry".

Dr. Haskin, who joined the Wisconsin faculty in 1960 after receiving his Ph.D. in radiochemistry at the University of Kansas, is currently serving as chairman of the Analytical Division. He is the author of the recently published paperback textbook, "The Atomic Nucleus and Chemistry".



This 'n' That . . .

(Continued from page 5)

Richard F. Firestone, Ph.D. '54, has been serving as acting Chairman of the Chemistry Department at Ohio State University, during the absence of Chairman Leo M. Dorfman. Dick joined the OSU Chemistry Department in 1961 after 5 years on the chemistry faculty at Case Western Reserve University.

Ed M. Fitchett, B.S. '24, writes that his old friend, **O. W. Baldwin**, overstated his case when he alleged Ed to be the brain among the chemistry students. Ed writes, "I would have flunked P. Chem. if I hadn't studied for the finals with Karl Paul Link. (We both roomed at the Univ. Y.M.C.A.) He got hold of 5 years of final exam questions in Physical, and we memorized the answer to every question. We got by far the highest exam grades in the class, and that pulled me thru. I had a good laugh about it with J. Howard Mathews 20 years later, when he visited me in Great Falls, Montana, while he and his family were on a western camping trip."

James L. Giulianielli, Ph.D. '69, terminated his Postdoc at the University of Texas to take a faculty position at Universidad de Los Andes in Merida, Venezuela. Jim wrote Professor Willard recently that the chemistry department is only a few years old but has fourteen Ph.D.'s on its faculty and will be hiring more. He sat in on a Spanish course last summer and is instructing students in the physical chemistry laboratory; beginning next year he will be lecturing in the course. He is beginning to set up experiments for his own research despite a variety of problems such as long waits for chemicals and equipment. The university at Merida appears to have a strong contingent of Badger chemists since Jim was preceded by **Tom Wallace** who received his Ph.D. with Dr. West in January, 1970, and the Drs. **Francisco** and **Eldryge Gil** who took Wisconsin Ph.D.'s in 1968.

Gorden G. Hammes, Ph.D. '59, was an invited participant in the Welch Foundation Symposium in Austin, Texas last Spring. He has, since 1970, been Chairman of the Department of Chemistry at Cornell. He and his wife Judith Frank have three children.

Ellery H. Harvey, Ph.D. '26, writes from 484 Wild Olive Avenue, Morman Beach, Florida, that

since retirement he has been involved in many civic and political activities. He is finishing his 4 year term as trustee of the Daytona Beach Community College by appointment of the governor. He says that he is shedding political activities that took him up to the state executive committee of the Republican party. "Being a conservative in this topsy turvy socialistic world is not very rewarding." Dr. Harvey is still lecturing a bit and writing a history of his family. He received a Doctor of Jurisprudence degree in June 1971 from his law school in Chicago.

George W. Heise, M.S. '12, writes that he is working frantically to complete volume two of his book on The Primary Battery.

Eugene L. Hess, Ph.D. '48, has become Executive Director of the NSF Molecular Biology Section and a Senior staff associate in the NSF Office of the assistant director for research. Before going to NSF, Gene had been Senior Scientist of the Worcester Foundation for Experimental Biology and was an affiliated Professor of Chemistry at Clark University at Worcester, Massachusetts.

Ralph Hill, Ph.D. '37, retired from Esso Research on December 31, 1969, and now operates the Welcome Aboard Vacation Center, 580 Main Street, East Orange, New Jersey. Ralph writes that he particularly enjoyed the article on Professor Mathews, since he had worked with him on the equipment to measure heats of vaporization at temperatures below their boiling points, before becoming a student of Homer Atkins.

Harold Jeskey, Ph.D. '42, and Margaret traveled in Greece and Portugal last summer. Harold continues to serve as Chairman of the Chemistry Department at Southern Methodist University.

Michael D. Kluetz, B.S. '71, was voted the \$500 award of the American Chemical Society in the annual undergraduate competition. Professor **M. H. O'Leary**, his undergraduate advisor, made the nomination. Kluetz carried out a special project under Professor O'Leary in his senior year. The award is given annually by the society's Division of Nuclear Chemistry and Technology to an undergraduate student at a U.S. College or University, who has done the most outstanding research in nuclear chemistry or allied fields.

Larry R. Krepski, B.S. '71, began graduate work last fall at the University of Colorado in Boulder.

Carl H. Krieger, B.S. '33, Ph.D. Biochem. '40, is President of the Campbell Institute for Food Research in Camden, New Jersey.

Robert F. Landel, Ph.D. '54, is taking a years leave from the Jet Propulsion Lab, Pasadena to have a sabbatical at University of Naples.

Steven L. Lawton, B.S. '63, writes that he is sorry to read of the retirement of Professor **Sorum** who had such a tremendous influence on him and many other students who undertook chemistry in
(Continued on page 7, col. 1)

Mercury on Campus

Professor Bassam Z. Shakhshiri utilized the undergraduate seminar, Chemistry 698, last spring in order to carry out a study of the fate of mercury on the University of Wisconsin campus. Students active in the project were Steven J. Borchert, Gary G. Gerdauskas, Robert C. Keppert, Jr., Steven A. Moahr, Stephen Jeffrey D. Rand, Charles N. Calkins, Roberta C. Jacques, Roger A. Koenecke, George W. Oliver, John W. Vorpahl, Paul G. Gertenbach, Mark H. Johnson, John C. Kutt, and David R. Picard.

Almost 400 questionnaires were sent to members of the chemistry faculty, chemistry graduate students, and to other faculty members on the campus whose research might involve the use of mercury. Of the total questionnaires sent, responses were received from 99. These questionnaires reveal that mercury and its compounds are usually used under a hood, but that most users dispose of small amounts of mercury compounds by pouring them down the drain. Larger amounts of elemental mercury and sometimes its compounds, are turned over to recycling services on the campus. The overall results of the survey revealed a general lack of knowledge regarding the presence of and fate of mercury in university activities.

The soft coal used in the university heating plant has an unknown mercury content so no data are available on about the amounts of mercury emitted on burning. The garbage disposal procedure of the university involves burying waste material but no knowledge of the amount of mercury buried is known. Broken thermometers in laboratories and hospitals and mercury batteries and switches contribute an unknown quantity of mercury to the environment.

In Memoriam

Martin D. Barnett, M.S. died of emphysema, November 26, 1971. He is survived by his wife Nancy and two sons, Rusty 6, and David 4. He was a student of Dr. McElvain while at Wisconsin but suffered so badly from asthma that he left to pursue doctoral work at the University of New Mexico where he was a student of Professor **Guido Daub, Ph.D.** '49. In recent years he was associated with the government, living in Fairfax, Virginia.

John Godston, Ph.D. '28, died October 29, 1971 in Charlotte, North Carolina. After graduation, he was with a food consulting firm, W. E. Long in Chicago, and later with the Applied Sugar Laboratories Corporation in New York. During World War II he was in charge of the new food program of the U.S. Department of Agriculture. After the war he was an independent consultant until 1958 when he became a food-processing specialist with the J. G. White Engineering Corporation in Taipei, Taiwan. (See *Badger Chemist*, no. 8, p. 15 and no. 8, p. 23).

Lester Hammond, Ph.D. '16, died in Arlington Virginia on November



27, 1971. Before retirement he had been with the National Bureau of Standards.

Ellis L. Krause, M.A. '13, reports in a note of October 23, 1971, "I am still in the land of the living." The Editor offers his deepest apology and is pleased to report that Ellis L. is still with us. It was the report of his brothers' death which was garbled in Number 18 of *Badger Chemist*. The death was that of **Elwyn B. Krause**, the brother of Ellis who also served in the Department of Chemistry at Marietta College. Ellis L. writes a very forgiving letter reporting that it seems that everyone except their wives had trouble keeping E. L. and E. B. apart. Ellis presently lives on Route 1, Ripon, Wis.

Charles S. Mohaupt, B.S. '33, passed away early in May 1971. He was associated with the B. F. Goodrich Company.

Harry A. Waisman, B.S. '35, died on March 19, 1971 following surgery. Since 1952 he had been on the staff of the U. W. Medical School as professor of pediatrics. In 1963 the reputation of his research group led to the establishment of the Joseph P. Kennedy, Jr. Memorial Laboratory at the University of Wisconsin under his direction. He undertook graduate work in biochemistry following re-



ceipt of his B.S., working on vitamins of the B-complex in the laboratory of Conrad A. Elvehjem. His Ph.D. was granted in 1939 for nutritional studies on rhesus monkeys.

During World War II he decided that his studies would benefit from greater medical knowledge and, while still in service, enrolled in the UW Medical School where he received the M.D. in 1947. He interned at University of Illinois and served on the faculty there until his return to Wisconsin in 1952.

His work dealt with the role of chemical substances on health and disease, particularly the role of chemical substances in leukemia and mental retardation. His work on the role of folic acid antagonists in children with leukemia led to broader studies of the role of amino acids in behavioral disorders in children. His work on the detection of phenylketonuria led to legislative action requiring testing of newborn infants for evidence of this genetic defect responsible for a form of mental retardation in children.

C. Howard Wartinbee, B.S. '27, died January 7, 1972 after a brief illness. After graduation from the Chemistry Department, he was a chemist with the Wisconsin Department of Agriculture in connection with the Food Control Laboratory.

Philip Wilcox, Ph.D. '49, died after a long illness on November 2, 1971. He was a faculty member of the Department of Biochemistry at the University of Washington.

This 'n' That . . .

(Continued from page 6)

his classes. He feels himself fortunate to have had him as his first chemistry professor and to have remained in contact with him throughout his four years.

James J. Leddy, Ph.D. '55, has been named to the rank of research scientist at the Dow Chemical Company. He has worked in electro and inorganic research at Midland since joining Dow in 1955. Having been largely responsible for significant improvements in diaphragm chlorine technology. Besides his research in electrochemistry he has been active in the teaching of courses in the Dow training program and was in 1959-60 on leave as Professor of Essex College at the Assumption University of Windsor, Ontario.

Ramon L. Neira Lemos, M.S. '72,

is doing graduate work at University of Massachusetts.

Arthur Lohr, Ph.D. '42, has retired from his position at Hercules Chemical Company. Art and Doris are enjoying retirement with winter months in Hawaii and the hot Delaware months in Wisconsin and Michigan.

Roger H. Lueck, M.S. '21, writes that he was pleased with the article on Dr. Mathews, with whom he had a close association during the first years that he was Chairman of the department. Enclosed with the letter was a reprint published last year in *Ag and Food Chemistry* indicating his



degree of success in unraveling the role of Rutin in oxidation of canned asparagus. When he retired as Vice-President for R and D in 1962 he had jurisdiction over all of the laboratory operations for American Can Company including laboratories in San Francisco, Barrington and Maywood, Illinois, Menasha, Wisconsin, Easton, Pennsylvania, Newark, New Jersey, Tampa, Florida, Houston, Texas, Los Angeles, California and Seattle, Washington.

F. A. Matsen, B.A. '37, Ph.D. (Princeton '41), was in Madison last August when he gave a special seminar entitled "A really wild approach to teaching Freshman Chemistry." Prof. Matsen who is at the University of Texas described an NSF Chemistry Course which has been offered at Texas for several years and has now been

(Continued on page 8, col. 1)

This 'n' That . . .

(Continued from page 7)

worked into the departmental offering as an honors course. Known as Rector Space Theory of Matter, the course seeks to take advantage of the students background in the new math in order to develop what Professor Matsen calls the ACP epistemology (for axiomatic cum pragmatic).

Stanley B. Mirviss, B.S. '44, Ph.D. '51, is with the Stauffer Chemical Company in Stamford, Connecticut. He is pleased to report there is a good chance that his company will resume Ph.D. campus interviewing in Madison in the Fall. Stan has a daughter who is in her sophomore year at Wisconsin at this time.

Donald H. "Tod" Morman, M.S., 1957, has been at Shell Development Company in Emeryville, California since leaving the U.W. in 1957. He is now working on analytical methods for the detection of air pollution.

Fredus N. Peters, Jr., Ph.D. '25, writes from his home in Sarasota, Florida that he has greatly enjoyed the ten years since he retired from Quaker Oats Company. Among other things he has been active in church activities, served as a teacher's aid in a local elementary school, and done some ham radio communicating. Besides enjoying some time for fishing and the antics of pelicans, cranes, loons, and other shore birds which were unfamiliar to him in the middle west.

Marshall E. Peterson, B.S. '52, M.S. '53, recently was named president and chief executive officer of Mettler Instrument Corporation. Peterson joined the Mettler firm in 1969 as vice-president. Prior to this, he had been vice-president of planning and business development for each Reeve Angel Company, Inc., Clifton, New Jersey. He had joined that company in 1957 as a technical sales representative, moving up to management post in sales, manufacturing and marketing. Earlier he had been assistant director of research for the Wilson products division of Ray-O-Vac in Reading Pennsylvania. Peterson, lives with his wife and two children in Princeton, New Jersey.

Russell W. Peterson, Ph.D. '42, made national news last July when he signed into law a bill which stops heavy industry from locating new factories on Delaware's ocean, bay and river coastlines. The law, the first of its kind in the United

States, specifically bans petrochemical complexes, steel mills, oil refineries, bulk transfer terminals and paper mills from locating along the waterfronts. There was considerable opposition from industry but Governor Peterson placed himself in a position of favoring conservation over industrial growth. Although the position will undoubtedly discourage heavy industries from locating in Delaware, there is a feeling that the improved quality of life may actually attract corporate headquarters and light industry. Time, July 12, 1971, quotes Governor Peterson, "we can afford to be selective".

Douglas W. Porrey, B.S. '65, recently accepted a position as manager of Industrial Development with the Cryogenic Engineering Company in Denver, Colorado.

Nancy Gray Potts, B.S. '15, has written Professor Schuette that she and Ralph still attend the American Oil Chemist Society Conventions and miss seeing him there. Ralph is a consultant for Armour Chemical and several other firms. He did work in Norway last year and a few weeks in Mexico.

Everett H. Pryde, Ph.D. '49, is contributing a chapter on "Aliphatic Dibasic Acids" to a book on "Condensation Monomers" being edited by J. K. Stille for publication by Interscience-Wiley. He recently saw publication of a chapter on "Ozonalysis" in "Topics in Lipid Chemistry," edited by F. Gunstone. Everett is at the U.S.D.A. Regional Laboratory in Peoria.

Paul B. Reichart, Ph.D. '69, has joined the Chemistry Department at Ohio State University. He had been a postdoctoral fellow at Yale since finishing up his doctorate.

Ruben Rieke, Ph.D. '66, returned to campus for a lecture. He is at North Carolina.

Harold P. Rusch, B.A. '31, M.D. '33, has been named Chairman of the National Cancer Institute Committee which is the planning for the basic direction of cancer research in the United States. Dr. Rusch has been quoted as saying "the committees tasks involve determining those areas of research which seem most promising in the quest to conquer this dread disease in mapping a strategy for this research on the national level. Organization of the committee followed congressional appropriation of \$100 million in additional funds for cancer research this year. Forty nationally known scientists make up the committee. Dr. James A. Miller, Professor of Oncology and Dr. A. R. Curreri, Chairman of the Department of Surgery at the Medical School, are also members of the committee. Dr. Rusch has been the only director of McArdle Laboratory for cancer research since its founding at the University of Wisconsin approximately 30 years ago.

Leo Safranski, B.S. '37. "Another fine issue!" Leo lives at 1205 Covington Rd., Carrcroft, Wilmington, Delaware.

Stephen S. Sawin, Ph.D., 1971, is now a member of the chemistry department in North Carolina State University at Raleigh where he is director of freshman laboratories. He had earlier spent two years in the chemistry department at the former Wisconsin State University in Eau Claire.

(Continued on page 9, col. 1)

TEXTBOOKS WANTED

Daniels' and Others

Professor Robert L. Livingston of Purdue University is making a collection of all editions of the physical chemistry textbooks with which Professor Daniels was involved in authorship. He still lacks the first (1913), second (1918), and fourth (1927) editions of Getman; and the fifth (1931) edition of Getman and Daniels. If you have one of these editions and would like to see it preserved you may get in touch with Bob at the Chemistry Department, Purdue University, Lafayette, Ind. 47907.

Aaron Ihde is seeking to complete, for the Historical Collection in the U.W. Chemistry Department, a set of all books written by members of the Chemistry Faculty. This includes textbooks and laboratory manuals in their various editions. If you have any such volumes you would like to see preserved, he would be glad to hear from you. Do not send the books without prior correspondence since a nucleus of such books is already in existence and there is no point in accumulating duplicates.

THE EMERITUS PROFESSORS

Professor Farrington Daniels has returned home after a recent period of hospitalization. Despite his illness he continues his interest in solar energy and other projects. It was recently announced that he is among those being honored at the 24th Annual Wisconsin Engineers Day at Madison on May 5.

A highlight of the past year for the Daniels was the unveiling of a set of murals painted by Mrs. Daniels for the Public Library at Richland Center, Wisconsin. The library was a gift to the city by Keith Brewer who was Dr. Daniels first doctoral candidate. Dr. Brewer, who received his Ph.D. in 1924, has had a long association with the Naval Research Laboratory in Washington. He was a native of Richland Center and has maintained his interest in the city.

Professor S. M. McElvain has been restricted in his activities during the past winter as a result of illness which necessitated hospitalization. He appears to have responded favorably and he and Helen are being seen around Madison again.

The V. W. Meloche's have just returned from the south where they have been making an unhurried search for a winter place. Besides spending time on the Gulf Coast of Florida, primarily in the Sarasota area, they had a pleasant trip to the Dutch Indies where they visited Bonaire and Curacao. Last summer was spent, as usual, at Trout Lake.

Professor H. A. Schuette recently celebrated his eighty-seventh birthday. He continues in residence at Attie Angels Nursing Home, 602

North Segoe Road, Madison, 53705 where he keeps abreast of events at the University and in Madison. He continues his deep interest in his former students and has been of great help in calling the Editor's attention to news about Badger Chemists. He is very proud that his son-in-law, F. Chandler Young, is currently president of the Wisconsin Academy of Sciences, Arts, and Letters, a position which Dr. Schuette held in 1944-1946. Dr. Young, the husband of the former Helen Schuette, is Vice-Chancellor for Student Affairs on the Madison campus.

Professor C. H. Sorum and Emma Lou have travelled extensively during his first years of retirement. Besides a trip to Europe they have been able to spend time with their children.

Professor J. W. Williams was recently honored by the publication of the lectures given during his stay at Uppsala in the fall term of 1968 when he was Nobel Guest Professor. The forward to the volume is written by Stig Claesson of the Institute of Physical Chemistry in Uppsala. Professor Claesson's Forward reviews Professor Williams' extensive work in colloid chemistry, particularly in connection with the ultracentrifuge and pays a glowing tribute to his activities. The Forward ends, "together with Profes-



sor Williams famous 1958 paper in Chemical Reviews, the proceedings of the 1962 Conference sponsored by the National Academy of Sciences, and of the 1968 Conference sponsored by the New York Academy of Sciences, this book will form a lasting monument to his contributions to ultracentrifugal analysis characterized by deep insight, clarity and precision."

Alumni Recognition

It has been announced that Evan P. Helfaer, B.S. '20, will be the recipient of a Wisconsin Alumni Association Distinguished Service Award. The awards are made annually to selected alumni "for outstanding professional achievement and continuing dedication and service to the University of Wisconsin." In 1929, at the beginning of the Depression, Helfaer purchased a small, failing drug house in Milwaukee and built it up into an important producer of biological drugs under the name of Lakeside Laboratories. Since retirement he has made very generous gifts to Marquette University, the Milwaukee Jewish Federation, and to both the Milwaukee and Madison campuses of the UW.

Samuel Lenher, B.A. '24, D.Sc. '59, will also receive the W.A.A. Distinguished Service Award for 1972 when the presentations are made at the Alumni Dinner in Madison on May 20. Since retiring as vice-president at Du Pont Dr. Lenher has been serving as advisor to eight governmental agencies. His directorship in the Wisconsin Alumni Research Foundation brings him to Madison at frequent intervals.

This 'n' That . . .

(Continued from page 8)

Virginia Schelar, M.S. '53, (Ph.D., History of Science '69) continues in her faculty position at Corona, California.

Rubin Shapiro, Ph.D. '53, is with American Can Company in Barrington, Illinois.

John S. Thompson, B.S. '50, is now marketing manager for the phosphate chemical line for Food Machinery Corporation. He has been with FMC for 18 years starting as a research chemist and working in their sales department,

applications research, product development, and now marketing. He is married to Marion Meyer who was a fellow student at Wisconsin when he was an undergraduate, they have three children.

Marion Veazey, Ph.D., 1926, writes of having visited Madison in June, 1967 when he and his wife, Daisy, called on Matty in his laboratory. Marion took his Ph.D. under Dr. Mathews. The Veazey's live at 2050 Greenfield Road, Hagerstown, Maryland. Although they enjoy long vacations in Santa Barbara, California where their daughter-in-law and four grand-

children reside. They make similar visits to Massachusetts to be with their son, Bill and his wife and three daughters and New Hampshire where their daughter Isabelle and her husband all live with five children. Dr. Veazey reports seeing Lloyd Withrow, Ph.D., 1925, at times. Also Ed Peterson of Chemical Engineering and Ed Groskopf, B.S., 1926 in Florida.

Hal Vergo, Ph.D. '41, now resides in Plantation, Florida.

Malcom L. Williams, Ph.D. '54, is with the North Carolina State Department of Public Instruction as an educational planner.

NEW BADGER CHEMISTS

Degrees granted since the last report in Badger Chemist (January 1971) include 49 Bachelors, 32 Masters, and 43 Ph.D.s. In most cases, departmental records are very incomplete regarding jobs and present whereabouts. These are included where known. Further information will be appreciated.

BACHELORS DEGREES

June 1971

BECKER, James J. -----
 BEVER, Gregory C. -----
 BLACKBOURN, James W. --- U.W. (Analytical)
 BURK, Terrance L. -----
 DAVIDSON, John R. -----
 DIETRICH, Robert F. -----
 ELY, Stephen R. ----- Oregon State (Inorg.)
 FLANZBLAW, Edward ----- U. of Calif., Berkeley
 (Physical)
 GERTENBACH, Paul G. ----- Mich. State (Anal.)
 GRANT, Douglas H. ----- U.W. (Medicine)
 HAGER, Douglas F. ----- Harvard (Physical)
 HILDEBRANDT, Steven J. ---
 HILMER, Katharine G. -----
 HOFFMAN, Lawrence, Jr. --- U.W. (Business)
 HUNT, Robert L. -----
 JOHNSON, Tommy D. -----
 KOROTEV, Randall L. -----
 KRETZ, Charles E. ----- Ohio State (Organic)
 LABUWI, Charles M. ----- U.W. (Medicine)
 LEMANSKI, Robert F., Jr. --- U.W. (Medicine)
 LOWDEN, Lawrence J. ----- Illinois (Physical)
 LUND, Jeffrey A. ----- U. of Calif., Berkeley
 (Organic)
 McCASKILL, Michael F. --- U.W. (Medicine)
 O'NEILL, Kevin D. -----
 OSTRUM, Arthur G. -----

RICHARDS, Joseph W. -----
 SCHMIDT, Gary A. ----- U.W. (Medicine)
 SEELIGER, Michael W. -----
 STIEGHORST, Michael F. ---
 TAMMIS, Thomas N. -----
 TATUM, Arthur H. -----
 THOMAS, Paul R. -----
 TWIEG, Robert J. -----
 VANDERHEYDEN, John L. --- U. of Calif., Berkeley
 (Organic)
 WAGNER, Richard F. ----- U.W. (Medicine)
 WEGNER, Mark M. -----
 WHITE, Richard J. ----- U. of Calif., Berkeley
 (Organic)
 WHITNEY, Charles P. -----
 WILLIAMSON, Ray C. -----
 WOLLENZIEN, Paul L. ---
 ZIEGE, Karen E. -----
 ZOELLNER, Gary B. -----

August 1971

PIERCE, Larry S. -----
 PREMEAU, Michael R. -----
 WHISLER, Robert J. -----
 GALL, Warren E. -----
 JENSEN, Carl A. -----
 SKARR, Mary Ann -----
 WHITE, Richard J. -----

MASTERS DEGREES

June 1971

ANDERSON, Ronald L.
 BAUGHN, Richard L.
 BECKER, David
 BI, Le-Khac
 BORLIN, Jorjan
 BOWER, Lynn E.
 FODY, Edward P.
 GARBER, Carl C.
 MAINWARING, David D.
 MAZUREK, Lola M.
 MILLER, Richard C.
 MILLER, Stephen A.

PELLE, David W.
 SHIN, So-Yung
 VALENZI, Richard R.

QUICKER, Therese A.
 ROSARIO, Marshal D.

August 1971

FIBIGER, Richard F.
 GELDER, John I.
 GERSON, Cyrelle K.
 KAM, Wing Kun
 MIRAN, David E.
 NAMETZ, Michael A.
 NEIRA LEMOS, Ramon A.

January 1972

ANDERSON, Michael R.
 FISCHER, Joseph B.
 FITZPATRICK, James H., Jr.
 GROW, James M.
 LATTIMER, Charles J.
 NELSON, Eric A.
 SABBAB, El ssaed Omar
 TY, Violeta T.

PH. D. DEGREES

June 1971

CALABRESE, Joseph (Dahl) ----- U.W. X-Ray Specialist
 CORY, Robert (Trost) ----- U. of Colorado
 CUMBRINE, David S. (Zimmerman) ----- P.D., Georgia T.
 JEMIOLA, James M. (Willard) ----- U.S. Air Force, McClellan AFB, Calif.
 JOHNSON, Diane (Ihde-History of Science) ----- U.W. Asst. Dean L & S
 MARKEZICH, Roland L. (Whitlock) ----- P.D., Stanford
 MYERS, Richard L. (Shain) ----- N. American Rockwell, Thousand Oaks, Calif.
 REUTRAKUL, Vichai (Trost) ----- U. of Mahidol, Thailand
 SCHATZ, Paul F. (Whitlock) ----- U.W. Specialist
 SOUSA, Lynn R. (Zimmerman) ----- P.D., UCLA

August 1971

BENEDICT, James J. (Treichel)	Procter and Gamble
BOUDJOUK, Philip R. (West)	P.D., U. of Calif., Davis
GERSH, Michael E. (Beeman)	P.D., U. of Florida
HALL, Michael B. (Fenske)	P.D., U. of Manchester
HELMKE, Philip A. (Haskin)	Res. Assoc., U.W., Madison
JONES, Barry E. (Goering)	
KNEBEL, William J. (Trieichel)	P.D., Iowa State, Ames, Iowa
MILLER, John R. (Willard)	P.D., Argonne National Lab.
OESTER, Michael Y. (Whitlock)	Harper College, Binghamton, N.Y.
WULFSBERG, Gary P. (West)	P.D., Cornell U.

January 1972

BOWMAN, Joseph D. (Hirschfelder)	U. of Göttingen, W. Germany
CAMP, Michael J. (Larsen)	P.D., Iowa State
CHIPMAN, Daniel M. (Hirschfelder)	P.D., U. of Calif., Santa Barbara
CHWANG, Tek-Ling (West)	P.D., U.W.
EPLING, Gary A. (Zimmerman)	P.D., Yale
FUCHS, Philip L. (Vedejs)	P.D., Harvard
HENZLER, Thomas E. (Larsen)	P.D., Institute of Environmental Studies, U.W.
HINTZ, Harold J. (Nelsen)	P.D., U. of Virginia
HUNTER, Lawrence W. (Curtiss)	P.D., U. of British Columbia
INDRIKSONS, Andris (West)	Wis. State Health Lab.
JOHNSON, Bruce M. (Taylor)	Univ. Hospitals, Madison
KOERMER, Gerald S. (Goering)	Asst. Prof. of Clinical Oncology
LOEWENSTEIN, Michael A. (Gostings)	P.D., U. of Calif., San Diego
MASON, Ronald P. (Harriman)	Proj. Assoc., Enzyme Institute, U.W.
PATTON, Elizabeth Ann (West)	WIH P.D., Cornell U.
RICKARD, Eugene C. (Shain)	P.D., U. of Rochester Medical School
SALOMON, Mary E. (Vedejs)	Ely Lilly Res. Lab.
STUCKI, Heinz (Whitlock)	P.D., U. of Indiana
SUKUP, Janice L. (Larsen)	CIBY-Geigy, Basel
TOAN, Trinh (Dahl)	U.W. Rock Co. Campus
VERGAMINI, Phillip J. (Dahl)	Asst. Prof., U. of Saigon, Vietnam
YEAKE, Warren C. (Fenske)	Los Alamos Scientific Labs.
ZIMAN, Stephen (Trost)	P.D., U. of Virginia
	P.D., Stanford

Herbert Dutton Gives Hilditch Lecture



Herbert J. Dutton, BA '36, (Ph.D. Biochemistry '40), delivered the third Hilditch Memorial Lecture in Liverpool on November 4, 1971. This series, instituted in 1967, commemorates the pioneer work of Prof. T. P. Hilditch who laid the foundation for modern fatty oil chemistry during his long career at the University of Liverpool. The Memorial Lecture is sponsored by the Society of Chemistry and Industry, The Royal Institute of Chemistry, and The Oil and Colour Chemist's Association of England. Dr. Dutton's lecture was entitled "Some new approaches in lipid research," and was combined with a two-day symposium on Recent Advances in Chemistry and Technology of Fats and Oils.

Upon completing his Ph.D. in 1940 Dutton became a member of the Western Regional Research Laboratory of the U.S. Dept. of Agriculture at Albany, Calif. where he began work on flavor stability of soybean oil. In 1945 he transferred to the Northern Regional Research Laboratory in Peoria, Illinois, and since 1958 has been in charge of investigations on chemical and physical properties of oil-seed crops. In 1956 he received the \$1000 Glycerine Research Award; in 1962 the Canadian Award of Merit for outstanding contributions to the literature of the science of fatty oils; in 1968 he was winner of the Alton E. Bailey Achievement Award of the American Oil Chemists Society. In 1966 Dr. Dutton and a co-worker were cited by the President of the United States who personally gave them a Special Merit Award for developing efficient methodology in vegetable oil research. Before giving the Hilditch lecture, Dr. Dutton addressed the Analytical Section of the Swedish Chemical Society in Stockholm and presented the fourth Catalyst Seminar at the University of Lund.

News of Former Faculty

Edward M. Kosower, onetime member of the organic faculty, has been made adjunct professor of chemistry at SUNY, Stony Brook where he has been for some time, and now becomes professor of chemistry at Tel Aviv University in Israel.

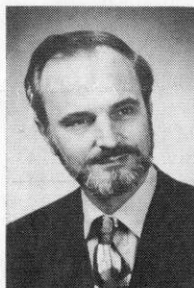
David M. Lemal, also formerly a member of the organic faculty, recently received a Petroleum Research Foundation Grant for the study of Tetrakis (perfluoroalkyl) tetrahedranes. Dave is at Dartmouth College.

John L. Margrave, onetime member of the inorganic chemistry faculty, and now chairman of the chemistry department at Rice University will become Dean of Graduate Studies at Rice on July 1.

Joseph H. Noggle, who left the faculty a year ago to take a position in the Chemistry Department at the University of Delaware, has recently seen publication of THE NUCLEAR OVERHAUSER EFFECT. Dr. Noggle and Roger E. Schirmer of the El Lilly and Company worked as co-authors.

Fenske to Become Next Chairman

It was announced by Stephen Kleene, Dean of the College of Letters and Science, just as we were going to press, that Professor Richard F. Fenske has been selected to become the new chairman of the Chemistry Department. The position, held by Professor John Willard for the past two years, is being vacated in July since Dr. Willard wishes to devote more of his time to teaching and research. Following Dr. Willard's announcement early in the second semester, a committee composed of Professors Edwin Larsen, Chairman, Paul Bender, Lawrence Dahl, Dennis Evans, Edwin Vedejs and Howard Witlock gave extended consideration to the nature and demands of the position and the personnel available for it, before arriving at the decision to recommend Dr. Fenske. A vote of the chemistry faculty supported the recommendation and it was sent to Dean Kleene for his action.



Richard Fenske joined the chemistry department at Wisconsin in 1961 as an assistant professor in the inorganic division, with teaching responsibilities in the freshman chemistry program. He received his tenure promotion to

associate professor in 1967 and became a full professor in 1970. In 1967 he received the Steiger Award made annually to a young faculty member in recognition of excellence in teaching.

Born on May 23, 1929, in Milwaukee, Fenske received his B.S. *cum laude* at Marquette University in 1952. During his undergraduate years he combined study with an

analytical position in the laboratory of the Red Star Yeast Company. During the next three years he was at Oak Ridge where he worked on radiochemistry and high resolution emission spectroscopy in the analytical and development laboratory of Union Carbide Nuclear. In June 1955 he was inducted into the U.S. Army where he was assigned to the Army Chemical Center in Maryland, doing fallout research by means of gamma-ray scintillation spectroscopy.

In 1957 he started graduate work at Iowa State University, working in the laboratory of Professor Donald S. Martin. His doctorate, granted in 1961, was based on a thesis titled "Energy Levels of Platinum (II) Complexes by means of Ligand Field Theory."

Fenske married Frances Michor in 1951. They have four children, Mary Elizabeth, 12; twins Joseph and John, 11; and Richard, 9.

During his years at Wisconsin, Fenske has taken an active part in the teaching responsibilities in freshman chemistry and has been an effective teacher at both elementary and advanced levels. One of his early assignments was responsibility for developing the honors course in general chemistry. He has contributed extensively to the strength of the freshman program.

On the research scene he is interested in the calculation of energy levels and electronic transitions in transition-metal complexes, using semi-empirical molecular orbital methods. In a decade at Wisconsin he has headed an active group of graduate students and has strengthened the theoretical side of inorganic chemistry. He has had frequent invitations to participate in international conferences on theoretical inorganic chemistry: Venice, 1966; London,

1967; Sydney, 1969; Lago di Garda, 1969; Krakow, 1970.

Dr. Fenske will be the eighth Chairman since the Chemistry Department was given independent status in 1880. Previous chairmen were: Willard W. Daniells (1880-1907), Louis Kahlenberg (1907-1919), J. Howard Mathews (1919-1952), Farrington Daniels (1952-1959), John Ferry (1959-1967), Irving Shain (1967-1970), John Willard (1970-1972). We all join in wishing Richard Fenske a long and distinguished chairmanship.

Goering Named McElvain Professor

Just before going to press the University Regents announced that six members of the faculty were being elevated to "named" professorships on the university faculty. Among the six professorships is one named in honor of Professor Samuel M. McElvain who

joined the departmental faculty in 1923 and served 38 years before his retirement in 1961. He is remembered for his distinguished work in organic chemistry and served as major professor of many Badger Chemists while on the faculty. He was well-known in chemical circles for his work on barbiturates, his study on the reactions of ketene acetals and his identification of the active principle in catnip. In addition to his research he was well-known for the clarity and excellence of his teaching, both in the undergraduate and advanced courses.



Professor **Harlan Goering** joined the University faculty in 1950 and rapidly rose through the ranks to the full professorship in 1958. He brought to the Department an expertise in organic physical chemistry and has made numerous contributions to the understanding of rates and mechanisms of organic reactions.

Badger Chemist is in financial distress. Contributions are not only desired—they are badly needed (see Editorial, p. 2). Send checks, cash, pledges, I.O.U.'s, or barter materials to:

**The Editor
Badger Chemist
Department of Chemistry
1101 University Avenue
Madison, Wis. 53706**