

## **Badger chemist : a newsletter from the Department of Chemistry of the University of Wisconsin. Newsletter 2 Summer 1954**

University of Wisconsin--Madison. ; Dept. of Chemistry  
Madison, Wisconsin: Dept. of Chemistry, University of Wisconsin,  
Summer 1954

<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 2

SUMMER, 1954

## Greetings, Badger Chemists

The Department of Chemistry is pleased to have this opportunity for keeping in touch with its alumni. The first issue of **Badger Chemist** was, apparently, so well received by you who returned the questionnaire to Dr. Schuette, your letters to him and your response to our request for financial assistance were so encouraging and stimulating that we are reasonably sure that you will support a 1955 issue; and after that an annual letter should not be too difficult a goal to reach.

Because of the desirability of proceeding cautiously, budget-wise, it has not been possible to acknowledge your contributions. By check and dollar bills 254 of you contributed \$288 towards the cost of putting Newsletter 2 into your hands. Non-alumni raised the total to \$305. Some 140 of you pledged support for the next issue; and here it is, larger than its predecessor.

There have been two gatherings of Badger chemists during the past year at meetings of the American Chemical Society, at Chicago and Kansas City. The next one will be at the meeting in New York Tuesday noon, September 14. If a more formal organization of Badger chemists than now exists is desired, the faculty will be glad to assist.

Chemists change their addresses frequently and Badger chemists are no exception. Dr. Schuette has devoted much time and energy in bringing our alumni records up to date, and with Dr. Ihde's assistance, in preparing these annual letters. He needs your help for your correct address — some 300 copies of last year's mailing were returned undelivered — and for information about Badger chemists who have not been receiving letters.

The number of seniors graduating is alarmingly small. In these times of technological advance and military dependence on better technical equipment the shortage of trained chemists and other scientists seriously threatens our military defense and continuing industrial development. Although the financial rewards are excellent for graduates, there is nothing in sight to indicate an adequate supply of chemists. In fact, we have fewer

undergraduates specializing in chemistry now than we had before the war, twelve years ago. And many of these men will not be directly available for industry and research unless Selective Service operates more effectively in placing the technically trained men where they can serve best.

Summer time is an active research time. Nearly all the professors, graduate students and project associates will be working on their research programs, thanks to the Summer School budget, the du Pont research grant of \$15,000 to the Chemistry Department, and several Federal and industrial research grants.

Farrington Daniels

## Fellowships

Next year's financial burdens of 16 superior graduate students will be lightened because of the generosity of an equal number of the nation's leading industries. Their gifts or grants have made possible fellowships with calendar-year stipends ranging from \$1400 to \$1500 for single men and \$2000 to \$2300 for those with dependents. Private funds raise the number to 17.

The list of appointees, as selected by Prof. N. F. Hall and his fellowship committee, together with the individual's alma mater and his fellowship sponsor, follows:

Walter R. Benn, Chicago, Standard Oil Foundation, Inc.; Irwin Billick, Buffalo, Union Carbide and Carbon; John S. Dahler, Wichita, General Motors; Edmund J. Eisenbraun, Wisconsin, Carbide and Carbon Chemicals; James B. Evans, Northwestern, du Pont; Robert P. Frankenthal, Rochester, Procter and Gamble; Carl Frieden, Carleton, U. S. Rubber; Samuel A. Fuqua, Jr., Beloit, Johnson Wax;

George Gioumousis, Brooklyn Polytech., Shell Oil; Peter E. Graf, Rochester, Minnesota Mining and Manufacturing; William F. Johns, Wisconsin, National Analine and Dye; James J. Leddy, Detroit, General Electric; Phillip H. Parker, Jr., Emory, Allied's Nitrogen Process Division; Allen K. Prince, Wabash, Socony-Vacuum; Maurice Shamma, Monsanto; Rex M. Smith, Wisconsin, Pure Oil; John R. Soulen, Carroll, Homer Adkins Fund.

## This 'n' That About Our Alumni

To **Robert L. Baldwin**, '50, belongs the distinction of being the first B.A. alumnus of the Department to have been appointed to a Rhodes Scholarship for advanced study in Britain. He studied at Oxford University which conferred upon him a D.Phil. degree in 1953. Currently Dr. Baldwin is a project associate on Professor Williams' staff.

The Department's first Ph.D. Rhodes scholar was **Frank H. Verhoek**, '33. Dr. Verhoek is now professor of chemistry at Ohio State University. Among other alumni known to have pursued graduate studies in England is **Samuel Lenher**, B.A. '24, who went on to the University of London to earn an advanced degree in '26. Dr. Lenher is assistant general manager, Organic Chemicals Department, E. I. du Pont de Nemours and Company, Inc.

**John D. Schwartz**, M.S. '33, is science editor with the American Book Company, 55 Fifth Avenue, New York 3.

**Alvin Strickler**, Ph.D. '21, head of the Chemistry Department, Evansville College, will retire early in September after which his address will be Singing Wood, Frankfort, Michigan.

**Robbin C. Anderson**, Ph.D. '39, is professor of chemistry in the University of Texas, Austin.

**Ralph A. Connor**, Ph.D. '32, is vice-president of research, also a director, of Rohm and Haas Company, Philadelphia.

**Ernest D. Coon**, Ph.D. '32, holds a professorship of chemistry at the University of North Dakota, Grand Forks.

**Louis F. Heckelsberg**, Ph.D. '55, is a research chemist with Phillips Petroleum Company, Bartlesville, Oklahoma.

**L. C. Krchma**, B.S. '31, assistant manager, Asphalt Department of Socony Vacuum Oil Company, Incorporated, at Kansas City, Missouri, arranged the Wisconsin luncheon there last March at the time of the meeting of the American Chemical Society. He is married to the former Lucille Heiman, a Wisconsin alumna. The Krchmas have  
(continued on page 3, col. 1)

## BADGER CHEMIST

Privately published by the Department of Chemistry of the University of Wisconsin, Madison, in the interest of its alumni and friends.

**Editor: Henry A. Schuette, Ph.D. '16**  
**Asst. Editor: Aaron J. Ihde, Ph.D. '41**

Please address all communications to:

The Editor,  
 Chemistry Building,  
 Madison 6, Wisconsin

## Again Something New

Friends and former graduate students of the late Professor Adkins will be pleased to learn that success has now been attained in the establishment of a fitting memorial in his name. But that memorial is not of the kind originally contemplated nor does it depend, as once planned, upon a principal the income from which would be sufficient to support a fellowship. Rather—and this is the something new for the Department of Chemistry—it is a professorship honoring him whose untimely passing in 1949 while a staff member ended a distinguished career.

The Board of Regents at their June meeting provided funds for a Homer Adkins Professorship of Chemistry. Named to it is, fittingly, Amherst graduate (B.S. '36) Prof. Wm. S. Johnson (Harvard M.A. '38, Ph.D. '40). Dr. Johnson came to Wisconsin in 1940 as an instructor and within six years reached full professor status. He will be on leave of absence next year in order to join Harvard's faculty as visiting professor.

## A Remarkable Record

Carleton College emeritus professor A. T. Lincoln has achieved a position among our alumni which appears to be unique. Now 16 years beyond the Biblical three-score-and-ten mark, he is probably our oldest living alumnus. It is exactly 60 years ago that he was granted the B.S. degree and 55 years ago that he became the Department's first recipient of the Ph.D. degree. Last March he was one of the group attending the Kansas City meeting of the American Chemical Society to be honored at the traditional presentation ceremonies of the 50-year membership certificate. But our alma mater marked that milestone in his life first in that ten years ago he was inducted into the Half-Cen-

tury Club by the Wisconsin Alumni Association.

**Badger Chemist** extends its congratulations to Professor Lincoln on his remarkable record. Its editor has filed in his folder marker "1956 issue" a memo reminding him that in 1896 the subject of these felicitations had joined the ranks of Wisconsin's M.S. alumni.

And what has Professor Lincoln been doing since retirement? He set up a small manufacturing business to make weather-proof plastic labels of his own design for the needs of gardeners, orchardists, and nurserymen. He is still making them!

## STAFF NEWS

Beginning on January 5, and continuing on the first Tuesday of the month through June, the University's Wausau Extension Center sponsored a series of lectures with the assistance of six members of the Department. Discussing the recent advances in chemistry each in his particular field of concentration, Professors Geo. G. Town of the Milwaukee Extension, V. W. Meloché, E. E. van Tamelen, H. L. Goering, A. L. Wilds and J. E. Willard brought their respective messages to some 44 chemists in the Wausau area who had enrolled for the series. Topics discussed at the monthly sessions covered in turn, atomic structure, instrumental analysis, ultraviolet and infrared in organic structure, the electronic theory in organic chemistry, the role of stereochemistry in modern organic chemistry, and the application of radioactive tracers to chemical problems.

Prof. C. H. Sorum has been named president for next year of Phi Kappa Phi, national scholastic senior honor society at the University.

Profs. Robert A. Alberty and Robert M. Bock (biochemistry) are supervising a \$15,000 grant by the National Science Foundation, one of three made to the University, for research in physical and biological sciences. The money is to be used over a two-year period for investigation of the enzyme fumarase.

Prof. A. L. Wilds was given a grant, for one year, of \$8000 for research in the total synthesis of non-aromatic steroids.

Ever since his retirement in 1952, Emeritus Prof. J. H. Mathews has been spending full time in his laboratory studying revolver characteristics which can lead to the identification of firearms from an examination of the bullets fired from them. Using a rifling meter of his own design, he has to date meas-

ured some 1500 hand guns and photographed about 400 different makes and models for trade, identification and proof marks. Alumni owning interesting foreign or domestic guns who might wish to cooperate with Dr. Mathews in his studies would do well to get in touch with him.

Prof. J. D. Ferry has been named chairman-elect of the Division of Colloid Chemistry of the American Chemical Society.

Among the faculty promotions announced at Commencement time are instructors C. Daniel Cornwell and John L. Margrave to assistant professors and Dr. Charles F. Curtiss to associate professor.

Because of the need of special care, and a desire to be near his relatives, Emeritus Professor Richard Fischer, who retired at school-year's end in 1940, last Fall left Madison after having been a resident there for 59 years. He is now making his home in Minneapolis, Minn., at 2200 Park Ave.

Profs. Willard and Daniels were the Department's representatives in the group of lecturers participating in Contemporary Trends 103, the all-university course for Seniors, and designed to bring together some of the major aspects of science, technology, and social problems. Both devoted their lectures to the atom; the former to its discovery and its exploration, and its ability to work for us, the latter discussed the atom as a servant in peace.

## Our Visiting Hiremen

Welcomed back to familiar surroundings by the staff this past year were ten of the Department's alumni who had returned to the campus as representatives of their respective employers to interview present and future members of the several graduating groups. With the exception of one who had gone on to the University of Iowa to complete his graduate work after an M.S. here, all had earned the Ph.D. degree at Wisconsin.

Our visitors, listed in about the chronological order of their arrival, were E. W. Adams '24, Standard Oil Co., Indiana; Lloyd W. Beck, '44, Procter and Gamble; Harry M. Barnes, '38, General Foods; A. W. Downes, '32, Bakelite Corporation; Ralph M. Hill, '38, Standard Oil Development Co.; Paul H. Reinker, '48, General Electric; Steward W. Gloyer, '39, Pittsburgh Plate Glass; John W. Brooks, M.S. '36, Socony-Vacuum Oil; Howard G. Tennent, Ph.D. '42, Hercules Powder; Orval R. Alexander, '40, American Can Co.



## This 'n' That - -

(continued from page 1)

three sons.

**I. J. Krchma**, B.S. '27, may be addressed at 5 Walnut Lane, Wilmington 3, Delaware.

**Richard H. Hunt**, Ph.D. '49, is a research chemist with Shell Oil Company. His home address is 2218 Dorothy Street, Pasadena, Texas.

**William I. Koerner**, Ph.D. '49, is a research group leader, Organic Chemicals Division, Monsanto Chemical Company, St. Louis.

Another St. Louis resident is **Wilbur J. Larson**, Ph.D. '51, who is employed by Mallinckrodt Chemical Works.

**Gordon R. Leader**, B.S. '37, is a senior chemist with Olin Industries. The Leader family, a boy-girl-boy group, lives at 3601 Gary Street, Alton, Illinois.

The **Lowell E. Nethertons** and their two sons, aged five and two, respectively, are at home at 314 Shawnee Street, Park Forest, Illinois. Their dad, Ph.D. '50, is a research chemist with Victor Chemical Works.

**James B. Nichols**, Ph.D. '28, is supervisor, Physical and Analytical Division, Chemical Department, at du Pont's Experimental Station in Wilmington.

**Donald J. Saunders**, Ph.D. '40, is a research supervisor for Solvay Process Division, Allied Chemical and Dye Corp. His mailing address is 327 Englewood Avenue, Syracuse 7, New York.

Another Badger chemist holding a research supervisorship is **Allen K. Schneider**, Ph.D. '41; with du Pont in the Chemical Department of their Experimental Station in Wilmington.

Still another du Pont is **Edward S. Bloom**, Ph.D. '40, who is a supervisor in the Polychemicals Department of the Experimental Division.

**Ivan A. Wolff**, Ph.D. '40, without any elaboration, reported his employer as "U. S. Dept. Agr.;" his mail address as 302 Margaret Avenue, Peoria 5, Ill. Northern Regional Research Laboratory.

**Walter M. Kutz**, Ph.D. '30, who was a teaching assistant while pursuing his studies as a graduate student and later a member of the staff of Mellon Institute, is now manager of the Laboratory Branch in the Verona Research Center of the Koppers Company.

**Monroe V. Evans, Jr.**, and **Donald J. Rief**, both B.S. '53, are pursuing graduate work at M.I.T. and hold appointments as teaching assistants.

A son, David Bernard, was born June 11 to the **Sol Shulmans**. Pere

Shulman, M.S. '54, has accepted a position with Archer, Daniels, Midland Company of Minneapolis.

Ardent golfer **Chas. H. Wartinbee**, B.S. '27, chemist in the Wisconsin State Dairy and Food Control Laboratory, in about 25 years of playing the game, has averaged a hole-in-one once in every five years. This appears to be something of a record for a non-professional. Wanna bet?

**J. K. Ashworth**, Ph.D. '48, is Assistant Director, Blood Program, American National Red Cross, Washington, D. C.

**Roy H. Baechler**, Ph.D. '27, besides serving the U. S. Forest Service as chemist in forest products in the Madison laboratory, also on occasion functions as lecturer in his chosen field on the University of Wisconsin faculty. Last September

(continued on page 7, col. 1)

## "Oles" Among Our Ph.D. Alumni

As of 1952, more St. Olaf College alumni had successfully pursued their graduate careers at Wisconsin to become Badger chemists in the Ph.D. category than at any other school of like rank. The trek to Madison began about 45 years ago when E. O. Ellingson (St. Olaf '06) enrolled in the Graduate School after having accepted appointment as teaching assistant in chemistry. In 1912 he won the Ph.D. degree and then stayed on as instructor until 1919 when he returned to St. Olaf to become professor of chemistry. Five years later he became head of its Department of Chemistry.

Now enjoying a well deserved rest after many years' service as an educator, Professor Ellingson is in a position to review with pardonable pride—and we suspect that he does so—the accomplishment of St. Olaf's 52 seniors who went on to 14 different universities to earn chemistry's highest degree. Of that number 14 followed the lead of their former teacher to the Wisconsin campus, and of this group six are active in educational fields, the names of three will be found on the roster of employees of the du Pont Company, two are employed by the Baxter Laboratories of Morton Grove in the metropolitan Chicago area, and three are associated with industries in the Atlantic states.

Numbered among the Badger alumni are the following Oles: Harry Fevold, '28, who together with Naurice M. Nessett, '35, is on the staff of the Baxter Laboratories in Morton Grove, Ill.; Paul K. Glasoe,

'38, with Eastman Kodak; M. Leslie Holt, '30, professor of Chemistry at Wisconsin and associate chairman of the Department of Chemistry; Harold W. Knufson, '39, with Hollingsworth and Voss, East Walpole, Mass.; Elmer C. Larson, '39, with Sylvania Electric Products Co., Towanda, Penn.; Willard Madson, '31, James H. Peterson, '30, and Donald A. Swalheim, '41, all with du Pont; Nels Minne, '32, president Winona State Teachers College, Winona, Minn.; C. Harvey Sorum, '27, professor of chemistry at Wisconsin; Roland A. Trytten, '41, a member of the faculty of State Teachers' College at Stevens Point, Wisconsin; and Conrad R. Waldeland, '32, professor of organic chemistry, Washington and Jefferson College, Washington, Penn.

Paul S. Lavik, '43, who took his degree in biochemistry, is professor of biochemistry, Western Reserve University, Cleveland, O.

## Leo Friedman

Several of our west coast alumni, on reading the first issue of **Badger Chemist**, wrote in to point that, evidently, we had not been informed of the passing of Leo Friedman. Leland G. Cole, Ph.D. (Oregon State '47), sometime assistant in chemistry at Wisconsin, and now Head, Rocket Propulsion Laboratory of the University of Michigan's Willow Run Research Center, prepared the following memorial for the benefit of our alumni.

Leo Friedman, 49, professor of chemistry at Oregon State College since 1932, died June 6, 1953, in Corvallis, Oregon, of a heart attack.

In his years at Oregon State College, Friedman had won recognition for his research and teaching ability and for his interest in professional and community affairs. In 1939 and 1946 he served as chairman of the Oregon Section of ACS and in 1951 was president of the Pacific Northwest Association of Chemistry Teachers. Last year he was elected first president of the Oregon system chapters of the American Association of University Professors.

Friedman was a charter member and this year president of the Corvallis Kiwanis Club. He held membership in five scholastic, chemistry, and engineering honor societies and was a member of numerous scientific organizations. He will long be remembered as an outstanding and inspiring teacher to his many students and associates in the Pacific Northwest.

L. G. C.



## Our New Ph.D. Alumni

The number of our Ph.D. alumni has been increased by 31 this school year to bring the total number in this group over the past 55-year period to 739. Statistically minded readers of the appended list will discover that over one-half of the group has accepted positions in industry, that exactly one-fourth has elected to enter academic fields, that two are pursuing advanced studies in England and that one has returned to his native Canada.

The names of the 31 new Ph.D.'s, the title of their theses and their present affiliations follow:

James H. Ackerman—Synthesis of steroid-like substances from hydrochrysenes (Johnson), Mallinckrodt.

Robert J. Athey—The preparation of some 1,3,4,4-tetrasubstituted piperidines (McElvain), du Pont.

Jean P. Blanchard—Allylic rearrangements in the 5-methylcyclohexen-3-yl system (Goering), Mount Holyoke College.

Russell C. Calkins—A study of the exchange properties of the tetracyanonickelate ion with four amino acid complexes of nickel (Hall), Dow Chemical.

Donald D. Cameron — Further studies of the application of the Faworskii rearrangement to the problem of angular methylation (Johnson), du Pont.

William T. Carnall — Studies in the mechanisms of some Friedel-Crafts type reactions (Willard), Argonne Laboratory.

William DeAcetis — Cyclization studies of beta-arylamino propionic acids and derivatives (Johnson), University of California.

Henry C. Dehm—Formation and reactions of the  $\Delta^{13}$ -Decahydrochrysenones in the estrane series (Johnson), Hercules Expt. Sta.

Edward B. Dismukes — Theoretical and experimental investigations of moving boundary systems formed by weak electrolytes (Alberty), Southern Research Institute.

Alvin J. Frisque — Minimum error analysis of binary mixtures from EMF data (Meloche), Standard Oil (Ind.).

Erwin N. Hiebert — The development of the concept of mechanical work to 1650 (Ihde and Clagett of History of Science), San Francisco State College.

Robert J. Hight—Studies related to the stereochemistry of the angular methyl group (Johnson), National Institutes of Health.

Don H. Johns — Tracer studies on

technetium separations (Hall), American Can.

Donald R. Johnson—Studies in applied infrared spectroscopy (Meloche), du Pont.

Sheldon G. Kurath—Energy storage in crystals through radiation damage (Daniels), du Pont.

Robert F. Landel — Dynamic mechanical properties of cellulose tributyrates solutions (Ferry), University of Wisconsin.

William E. Link—Studies on the minor components of rye germ oil (Schuette), Archer-Daniels-Midland.

John G. Lofstrom — The building of a quarter wavelength line oscillator and its application in high frequency titrations (Blaedel), du Pont.

Alan A. MacDiarmid—Isotopic exchange in complex cyanide—simple cyanide systems (Hall), Sydney Sussex College, England.

Robert J. Meyer—I. Synthesis of the sixteen isomeric octadecenoic acids and a study of their reactivity with certain halogenating agents. II. Synthesis of certain acetylenic acids and their identification by infrared analysis (Schuette), Standard Oil (Ind.).

Patricia K. Moyer—Studies of the decarboxylation of unsaturated acids (Johnson).

John H. Norman — Spectrophotometric and polarographic studies of certain chelates (Meloche), Matheson Chem. Corp.

Mary Jane Oestmann—Solubility of metallic nitrates in organic solvents (Hall), foreign travel.

Donald L. Petitjean — Chemical analysis by measurement of reaction rate (Blaedel), Aluminum Co. of America.

James Kirk Rieke — Thermoluminescence behavior in inorganic crystals (Daniels), Dow Chemical.

George N. Sausen—Angular methylation studies of derivatives of 1,5- and 1,6-decalindione (Johnson), du Pont.

Roy E. Starn, Jr. — The preparation and properties of polymethylene ketene acetals (McElvain), du Pont.

James Y-P. Tong — Equilibrium and kinetic studies in aqueous acidic solutions of chromium (III), chromium (IV) and cerium (IV) (King), Durez Plastics and Chemical Corp.

Edgar Warnhoff — The preparation and synthetic utilization of certain **alpha,beta**-unsaturated ketones (Johnson), Birkbeck College, London.

Russell V. Webber — Sedimentation coefficient determination with polysaccharides of low molecular weight (Williams), N. R. C., Canada.

Malcolm L. Williams—Relaxation distribution functions of polyvinyl

acetate (Ferry), University of Wisconsin.

To last year's list should be added the following names:

Charles E. Blades—The preparation of substituted indoles from diazoketones (Wilds), Air Reduction Co.

Averal T. Trimble, Jr.—The synthesis of 1-methyl-3-alkyl-4-piperidones (McElvain), Georgia Inst. Tech.

## Our Traveling Faculty

Lest any readers be inclined to quip that, for the faculty, it must have been a grand year for vacation traveling, let it be known that in all but one instance in the account which follows, such activities were strictly business: lectures and the presentation of papers, a postman's holiday of sorts. First place for the most lectures delivered in this country goes to Dr. Daniels; for those delivered abroad this spot goes to Dr. Hirschfelder; and the one most in demand by non-scientific audiences was Dr. Sorum.

After the meeting of the American Chemical Society where he gave his presidential address, "Challenge to Chemists", Dr. Daniels hurried back to Madison to preside over a symposium attended by some thirty U. S. and foreign experts on solar energy. The symposium, sponsored jointly by the National Science Foundation and the University, was called "to review and explore the non-agricultural utilization of solar energy and to find areas where scientific research should be encouraged". Later that month he was back in Chicago, this time to introduce medalist Joel H. Hildebrand at the Willard Gibbs award banquet of the Chicago Section. In mid-October, as president of the American Chemical Society, he set out to fill the last of his speaking engagements before local Sections. His eleven-stop lecture tour began in Greensboro, N. C., took him into Virginia, South Carolina, Florida, and ended in San Juan, Puerto Rico. Next month he was in Philadelphia participating in the opening of the Chemical Exposition and early in December it was the Mid-Century Conference on Resources for the Future in Washington, D. C., which claimed his attention. On February 17 Northwestern University's Sigma Xi Chapter and its Chemistry Department were his hosts and a week later Wisconsin alumni in the

(continued on page 5)

(continued from page 4)

Beloit area, gathered for the annual Founders' Day banquet, did the honors. On April 2 he addressed the Natural Science Teachers' Association in Chicago on the subject of the utilization of solar energy, and four days later he was a local-section speaker again when, in Dayton, he addressed that group on a much favored topic, "Our Future Sources of Energy". Delivery of the C. J. West Memorial Lecture on the occasion of the 25th anniversary of the Institute of Paper Chemistry on May 7 completed his major speaking engagements for the year.

Prof. Joseph O. Hirschfelder returned in mid-December from a two-month tour of Europe arranged by scientists interested in hearing reports of his researches. He delivered lecture series at 14 major scientific centers in Paris, London, Cambridge, Oxford, Manchester, Belfast, Amsterdam, Leyden, Brussels, Rome and Zurich. The University of Brussels presented him with a bronze medal for his work on molecular interactions and for the series of lectures which he delivered there.

An international audience in Paris heard Prof. W. S. Johnson read a paper, by invitation, at a colloquium on hydroxycarbonylation sponsored by the Centre National de la Recherche Scientifique and held during the first week in June.

The title of his paper: "The Aldol Condensation in the Synthesis of Fused Ring Systems." On March 5, Professor Johnson addressed the New York Section of the A.C.S. on the subject, "Total Synthesis of Steroids." He was also one of the Wisconsin group reading papers at the Chicago meeting of the Society.

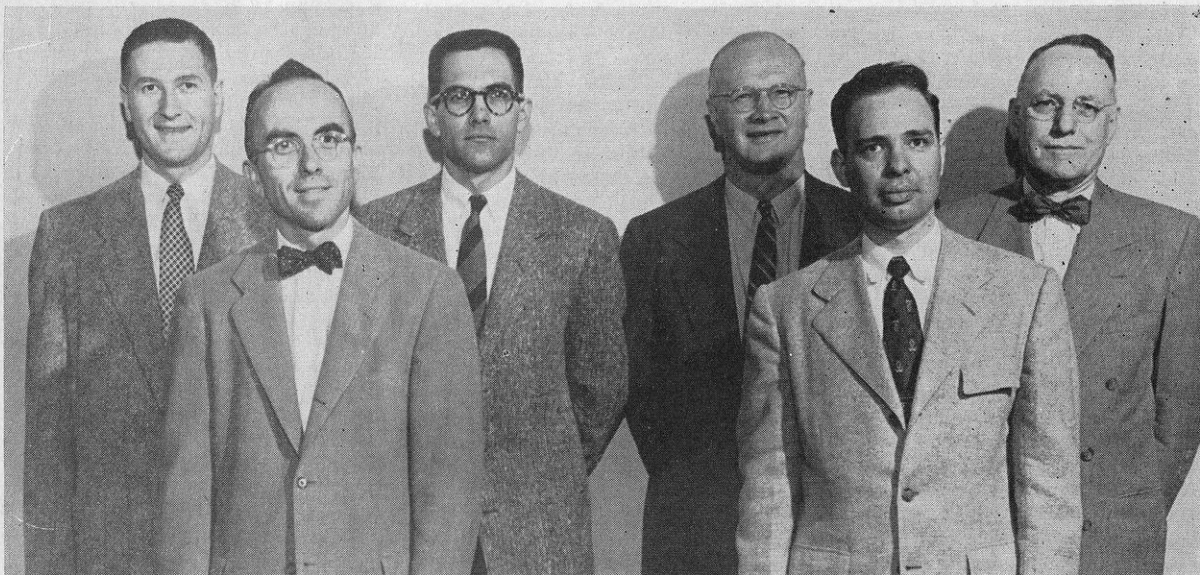
For Prof. C. H. Sorum off-campus lectures began in Milwaukee on September 25 when he was a feature speaker at the meeting of the 60,000-member National Association of Foremen. His subject, "Atomic Energy: How it will Affect Us", was so well received that four Wisconsin groups later in the year requested his appearance in their respective cities. Speaking on the subject, "Some Aspects of Atomic Energy", he obliged the Racine Manufacturers Association on April 8, the Kimberly Atlas Management Club on April 15, the Foremen's Club of Oshkosh on April 27, and the Giddings-Lewis Management Club of Fond du Lac on June 5.

For Prof. John D. Ferry, the annual meeting of the Society of Rheology in New York, October 29 to 31, had a special meaning in that he was presented at that time with the Bingham award for 1953 for his outstanding contributions to rheology. Dr. Ferry took part in the program of papers read with one entitled, "Dynamic Mechanical Properties of Cellulose Tributryrate

Solutions". On November 30 he addressed the Division of Organic and Fibrous Materials of the National Bureau of Standards in Washington on the subject, "Mechanism of Fibrin Formation". He repeated this lecture at the B. F. Goodrich Research Center, Brecksville, Ohio, on December 3 and the next day he addressed the Akron Polymer Lecture Group taking for his subject, "Dynamic Properties of Polymers and Polymer Solutions". On February 2, in Minneapolis he was the "3M" seminar speaker for that month; his subject, "Dynamic Mechanical Properties of Polymers". The following month found him and several of his graduate students in Detroit and Ann Arbor attending the meeting of the American Physical Society of which he is now chairman of its Division of High-Polymer Physics. The titles of the papers read by his group are, "Dynamic Properties of Polyvinyl Acetate", and "Slow Relaxation Mechanisms in Concentrated Polymer Solutions". The Atlantic City meeting of the American Society of Biological Chemists, April 12 to 16, next claimed his attention, in that he participated by invitation in a symposium on blood clotting. The title of his paper: "Polymerization of Fibrinogen".

Prof. H. L. Goering was one of the invited guest speakers partici-

(continued on page 6)



Among those missing from the faculty picture in last year's Badger Chemist were the above. Drs. Cornwell, Margrave and Shain had not yet joined the staff at the time last year's picture was taken while Drs. Ihde, King, McElvain and Meloche were not around. Dr. McElvain was missing again when the above picture was taken. This time he didn't forget—he was in Europe. Next year we have high hopes of having his picture—perhaps in the beret he is said to have worn on shipboard! Left to right above are, front row: King, Margrave; back row: Shain, Cornwell, Ihde, Meloche.



## Faculty - -

(continued from page 5)

pating in a lecture series sponsored by the New York Section of the A.C.S. early this year on the general theme of mechanisms of organic reactions. On March 17 Dr. Goering delivered a lecture entitled, "Radical Addition Reactions." He attended the Society's 124th meeting in Chicago last September and read a paper before the Division of Organic Chemistry.

Prof. M. L. Holt participated in the 104th meeting of the Electrochemical Society at Wrightsville Beach, N. C., September 14 to 16. He read two papers, co-authored by several of his graduate students; one on the subject of the electro-deposition of nickel-molybdenum alloys, the other on cobalt-molybdenum alloys. On March 22 he addressed a joint meeting of the Chicago Section of this Society and the American Electroplaters Society. Subject: "The Electrodeposition of Alloys of Some of the Less Familiar Metals."

Four local sections of A.C.S. were hosts in turn, during the week beginning October 5, to Emeritus Prof. J. H. Mathews who addressed them on the subject, "Scientific Criminal Identification". On successive days large audiences composed not only of chemists, but interested townspeople and students in general, in Lafayette and Bloomington, Ind., and in Louisville and Lexington, Ky., turned out to hear Dr. Mathews' ever popular lecture.

The growing interest in instrumental analysis provided the theme for an address, on February 1, by Prof. V. W. Meloche before the Chicago Section of the Instrument Society of America.

Dr. John L. Margrave, after reading a paper before the Division of Physical and Inorganic Chemistry of the A.C.S. at its Chicago meeting, September 6 to 11, went on to Philadelphia to participate on the following week in a two-day symposium sponsored by the Office of Ordnance Research. His contribution to the symposium was a paper dealing with inorganic peroxides, superoxides and peroxyhydrates.

Prof. H. A. Schuette was the lead-off speaker in a group of eight presenting a program of papers designed to acquaint students at the college level with the general field of the glyceride fats and oils and their derivatives. The occasion was the Fall meeting of the American Oil Chemists' Society in Chicago, November 2 to 4. Title of his paper: "The Chemistry of the Lipids."

Prof. C. F. Curtiss presented a

paper, embodying the results of research by himself and colleagues of the Naval Research Laboratory, at a meeting of the American Institute of Chemical Engineers held in San Francisco, September 15. The paper, entitled "Intermolecular Forces and the Properties of Gases", was prepared jointly by Dr. Curtiss, R. E. Bird and Prof. J. O. Hirschfelder.

The S. M. McElvains returned late in June from a four-months' trip to Europe and North Africa. Sailing last February aboard the "Andrea Doria", they landed at Gibraltar, crossed the strait and went on to Tangiers, then returned to Spain and traveled through Spain, France, Italy, Austria, Germany, Switzerland, and England. In Germany they called on Dr. and Mrs. Carl Ziegler who spent a week two years ago in Madison when Dr. Ziegler gave the Karl Folkers lectures. At Oxford in England they saw Sir Robert Robinson who lectured at our University last year.

Prof. Aaron J. Ihde addressed the Conference on Teaching of Science, meeting in Madison July 14-16. His address appeared in printed form last November in **School Science and Mathematics** under the title "Learning the Scientific Method through the Historical Approach." Last April in Stevens Point he addressed the combined chemistry faculties of the Wisconsin State Colleges Conference on the use of case histories in the teaching of chemistry. Two weeks later he presented a seminar, at which the subject "Science in General Education" was discussed, before the science faculty of The College, University of Chicago. Later in May he was in Menomonie, Wisconsin, where Stout Institute was host to the Wisconsin Committee on General Education. The title of his address: "Basic Principles in Planning Science Courses." With Rosemary Ehl as collaborator, he read a paper on a facet of the scientific activities of Michael Faraday at the Chicago meeting of the A.C.S. last September. It was presented before the Division of the History of Chemistry.

Other participants in this meeting were Prof. A. L. Wilds who, with Ruth H. Zeischel, read one of the 14 papers presented by former students and colleagues of the late Prof. W. E. Bachman of the University of Michigan at the Organic Division program dedicated to his memory.

Prof. W. J. Blaedel, with Prof. V. W. Meloche as collaborator, read a paper before the Division of Analytical Chemistry: its title, "The Use of Control Charts in Teaching Quan-

titative Chemistry."

Profs. R. A. Alberty and Louis J. Gosting and associates read papers before two different groups: The Division of Biological Chemistry and The Division of Physical and Inorganic Chemistry. Also presenting the results of some of their researches before the Physical and Inorganic Chemistry Division were Profs. E. L. King and J. E. Willard, Dr. John L. Margrave, and Project Associate G. M. Harris on leave from the University of Melbourne, Australia.

Prof. J. D. Ferry and associates presented two papers, one before the Division of Biological Chemistry and the other before the Division of Polymer Chemistry.

## Bachelors, Masters Now Alumni

Although quantity was lacking in the group of seniors awarded the bachelor's degree last June, the quality factor was there plus. Ten of the 23 graduates, because of distinctive scholastic achievement (grade point average 2.25 or better), were privileged to wear the coveted fourragere at the 16th annual honors convocation which preceded Commencement exercises that afternoon in the stadium. Three of their number had recently been elected to Phi Beta Kappa. Chemistry Course graduates joining the alumni are B. C. Bergum, Norbert F. Cywinski, R. D. Eberhardt, Lloyd Jowanovitz, Claude I. Judd, Gene E. Kalbus, James E. Mars, Arthur K. Nelson, Inger Rockne and Jerry H. Schachtschneider. The chemistry majors are Grace E. Bowman, Robert E. Bowman, Allen M. Burns, Kenneth H. Decker, Robert F. Drake, Jeremy R. Fox, R. J. Hickey, Jr., Hsin-Chu Hoh, Stephen D. Morton, Jack F. Podell, Doris M. Roob (a School of Education enrollee), B. C. Saley, Calvin H. Schmid, and R. L. von Trebra, Jr.

Cywinski will do graduate work at Northwestern, Judd will remain at Wisconsin as an assistant in organic chemistry, Nelson and Schachtschneider have accepted assistantships at Minnesota. Miss Hoh has an appointment in the Biochemistry Department at Wisconsin. Lieuts. Fox and Podell will serve in the Armed Forces, and Miss Roob will join Dr. Town's staff at the Milwaukee Extension.

Several seniors will complete their studies, it is expected, in Summer Session. Among them are Stephen D. Darling who has re-

(continued on page 7)



(continued from page 6)

ceived a National Science Foundation fellowship for study at Columbia, and Brigita Ekmanis, slated for a position in the Milwaukee Extension.

Twenty-one masters complete the list of recent majors. They are R. F. Amlie, R. S. Berger, E. C. Boycks, Geo. P. Colbert, Rosemary G. Ehl, Wm. D. Ehmann, S. J. Ehrenson, S. A. Fuqua, Jr., P. K. Gallagher, E. M. Gross, G. C. Knapp, Patricia M. Kohout, A. G. Korzun, Wm. L. McLeish, R. A. Meiklejohn, Wm. C. Proost, Jr., Ursula G. Quarck, Victoria D. Reidenbach, Virginia M. Schelar, Sol Shulman and Geo. G. D. Town.

## This 'n' That - -

(continued from page 3)

he was one of two members of the FPL staff to receive an award for 30 years of service.

**Rodney E. Black**, Ph.D. '42, is associate professor of chemistry in Kentucky's University of Louisville.

**Paul W. Boutwell**, M.A. '12 (Ph.D. '16 Agr. Chem.), sometime teaching assistant in general chemistry in his graduate student days, has retired as professor and head of the Department of Chemistry in Beloit College where he had earned his B.A. degree in 1910. An appreciative group of his former students—some nine of them have won the Ph.D. degree in chemistry at Wisconsin—subscribed funds to establish a Paul W. Boutwell scholarship at Peloit to honor his inspired leadership.

**Marie H. Carr** (Mrs. P. C.), B.S. '20, holds a biochemist's position with the Veteran's Administration. Her address: 7018 Broadmoor, Overland Park, Kansas.

**William F. Caldwell**, Ph.D. '30, is professor of chemistry in Oregon State College. To the Caldwells have been born four children ranging in age from three to twelve years; sex distribution is 50:50. Bill writes that his Madison teaching experience and contacts were a great aid in the preparation of his co-authored "Fundamentals of College Chemistry", for which he claims "the third largest adoption in the Frosh chemistry" field.

**Harry A. Curtis**, Ph.D. '14, appears to be the Department's star honorary degree holder. Dr. Curtis, who is one of the commissioners of the Tennessee Valley Authority, holds a Sc.D. '30 from his alma mater, the University of Colorado; a Sc.D. '37 from Wisconsin; and D. Eng. from the University of Louisville conferred in '48.

**Albert S. Carter**, Ph.D. '27, is cur-

rently serving as general assistant director of du Pont's Jackson Laboratory. Mail will reach him at Llangollen Estate, New Castle, Del.

**Carl J. Christensen**, M.S. '25 (Ph. D. California '29), wrote, "It is thrilling to read of the doings and accomplishments of the fellows with whom I worked years ago, while we were still dreaming of our futures". **Badger Chemist** records with understandable pride that at present alumnus Christensen is Dean of the College of Mines and Mineral Resources of the University of Utah.

**J. O. Closs**, Ph.D. '28, is secretary and manager of the American Pharmaceutical Association with offices at 30 Rockefeller Plaza, New York 20.

Among our '31 Ph.D. alumni is the namesake of him "for whom the belles told". Ours, **Maurice F. Kinsey**, onetime manager of Technical Service, Rayonier, Inc., is now plant superintendent for Transport Package Co., Chicago.

**Grover L. Corley**, Ph.D. '26, last year completed 25 years of service on the faculty of the University of Louisville and in recognition of this service was awarded a plaque. Formal presentation of this token of appreciation was made at the University's commencement exercises in June 1953.

**George P. Colbert**, B.S. '50, was separated from active duty with the Army Chemical Corps last fall. He is now with du Pont's Louisville Works Development Section.

"Congratulations on the project of the Newsletter", wrote **Eleanor Cox**, B.A. '25 who holds an associate professorship in Stout Institute, Menomonie, Wis.

**Don T. Cromer**, Ph.D. '51, left National Lead Co. to join A.E.C.'s Los Alamos laboratory. **R. J. Kline**, Ph.D. '53, who is on the chemistry staff at Ohio University, Miami, O., spent the summer of '53 with Don and expected to return there this summer.

**J. D. D'Ianni**, Ph.D. '38, is assistant to Goodyear's vice-president of research and development.

**L. R. Donkle**, B.S. '43, is chief chemist with Shell Chemical Corporation, Torrance, Cal. He is a nephew of **Harvey D. Royce**, Ph.D. '26, who is with Southern Cotton Oil, Savannah, Ga.

Correction! **Paul C. Cross**, Ph.D. '32, informed us that Chemistry and Chemical Engineering at the University of Washington now enjoy separate status and that he is chairman of the Chemistry Department.

**R. F. Dunbar**, Ph.D. '33, is Dean of the School of Chemical Technology, North Dakota Agricultural College.

Also a Dean but with the added responsibilities of vice-president is **Wm. L. Dunn**, Ph.D. '41, of Lake Forest College in Illinois.

**Waldemar Dasler**, B.S. '32, holds an assistant professorship in the Chicago Medical School.

**Herbert S. Ellison**, E.S. '32, is chemist with B. D. Eisendrath Tanning Co., Racine, Wis.

**Dorr H. Etzler**, B.S. '35, is assistant to the general manager of California Research Corporation, Richmond. Other Badger "alums" in the employ of this subsidiary of Standard Oil of California, all Ph.D.'s, are **Jos. C. Guffy**, '48; **A. L. Meader, Jr.**, '48; **S. W. Nicksic**, '52; and **J. B. Peri**, '49. At their LaHabra laboratory is **F. W. Schremp**, '50.

An undergraduate's interest in food chemistry, his senior thesis on a problem in milk chemistry, and the know-how learned in his first job after graduation from the Chemistry Course in '33, provide the background for the present activities of **Merle G. Farnham**, president of Dairyland Food Laboratories, Inc., of Waukesha, Wis. The origins of most of the cheese flavor declared on the labels of certain types of processed foods can probably be traced to the inventiveness of this Badger chemist.

**Sallie A. Fisher**, Ph.D. '49, occasionally pinch-hits for her chief at Rohm and Haas when he is too busy to fill speaking engagements. For example, she addressed an audience at McGill University last winter and early in February she spoke to the Analytical Group of the Western New York Section of the American Chemical Society at Niagara Falls. Subject: Ion exchange in analytical chemistry.

**Sidney B. Orman**, M.S. '52, analytical chemist in the Technical Service Department of Congoleum-Nairn Co., Newark, N. J., wrote us in a nostalgic vein that his family, since leaving Madison, had undergone a transposition from tranquil mid-western semi-ruralites to metropolitan dwellers in a land where butter is a forgotten word. Sid has several contributions to C & EN's News-Scripts, in the lighter vein, to his credit.

**E. M. Fitchett**, B.S. '24, is a research engineer with American Metallic Chemicals Corporation, Portland, Ore. Writing ye editor that he has some heretical ideas on the subject of curriculum changes, he opines that it would be interesting to see what each grad now thought of French and German, or even higher math, or of patent law, report writing, instrumentation and

(continued on page 8)

## This 'n' That - -

(continued from page 7)

applied economics.

Mrs. **Norman Feitelson** (Janet E. Pearlstein, B.A. '37) replied to our questionnaire with a letter, a picture of her darling three-year-old Ann shelling peas, and a check. Is daughter already showing an interest in food chemistry? Her mother thinks that she is.

**James Paul Fugassi**, Ph.D. '34, is professor of chemistry at Carnegie Institute of Technology and, since February 1 of this year, director of Carnegie's coal research laboratory. The latter is now a unit of its Chemistry Department.

**Lester G. Graper**, E.S. '17, is vice president of research and development of Lone Star Steel Company, Dallas, Texas. His company has recently built a fully integrated steel plant in East Texas where nearby there are "tremendous" ore deposits. The ore is described as being "of low analysis" but lending itself very readily to beneficiation.

**Wm. A. Hadfield**, B.S. '14, returned his questionnaire "all checked in the affirmative", with a dollar bill to keep the newsletter alive. Bill is in the Technical Service Department of Pennsylvania Salt Manufacturing Co., Philadelphia 7.

**Walter H. Hartung**, Ph.D. '26, is professor of pharmaceutical chemistry in the University of North Carolina, Chapel Hill.

**Helene Matsen**, B.S. '25, is now assistant chief librarian in the Technical Library of the Standard Oil Development Company, Linden, N. J. Miss Matsen spent several years as chemist in her native Wisconsin before joining Standard's library staff in 1936. Her advancement to her present position was announced late last December. She is a member of the American Association of University Women, Special Libraries Association, American Chemical Society, and the Board of Deacons of the Elmora Presbyterian Church. Besides which, she is quite active in the Home Service Department of the American Red Cross.

Research chemist **Ralph M. Hill**, Ph.D. '37, Esso Laboratories of Standard Oil Development Company, has a 14-year-old son who appears to be chemistry-minded. He was last reported to be reading Pauling's "College Chemistry".

**Gilbert H. Hoffman**, Ph.D. '27, suggests that we do not overburden ourselves with too frequent issues of **Badger Chemist** and that quarterly should be sufficient. No tengo dinero for such an ambitious publication program; later perhaps. Gil

is with Oneil Duro Co., Milwaukee, makers of industrial finishes.

**Alexander Hollaender**, Ph.D. '32, is Director of Biology, Oak Ridge National Laboratory. McGraw-Hill has recently announced the publication of the first volume of "Radiation Biology" of which Dr. Hollaender is editor. This volume covers ionizing radiations.

After acquiring his B.S. in '42, **David B. Ehrlinger** later went on to Northwestern University where he enrolled in its School of Law and obtained a J.D. degree in 1950. He is now a patent attorney in the Legal Department of Parke Davis and Co. of Detroit. Home address: Birmingham, Michigan.

Another alumnus to add a legal training to his chemical background is **James R. Frederick**, B.S. '50, who subsequently enrolled in Wisconsin's law school and became a two-degree—assorted that is—Badger. Mail will reach him at Distillation Products Industries, Legal Dept., Rochester 13, New York.

Vienna-born **Hans Breuer**, B.S. '47, is employed by Lever Bros. Co. at their Edgewater, N. J., plant. His past experiences record is suggestive of some measure of novelty, to wit: high school mathematics teacher in Army Overseas College; U. S. Army Department of Information and Education; administrative staff of Golden Gate College of the Philippines. Hans stayed on at Wisconsin to earn his M.S. degree in '48.

**Carl E. Frick**, Ph.D. '23, became associated with Van Cleef Bros., rubber products manufacturers, upon graduation. In 1947 his employer became Johns-Manville Corporation by purchase of the Van Cleef business. He is now production and plant manager. Mail address: 8512 Constance Ave., Chicago 7.

**James K. Hunt**, Ph.D. '26, of 405 Hawthorne Drive, Wilmington 2, Delaware, listed two reasons why "at best" he felt "only lukewarm" toward a newsletter; and then joined some 250 other Badger chemists in making this issue possible! Ye editor, on expressing his thanks, wonders what friend Hunt would have done for **Badger Chemist** if his enthusiasm for the project had been pitched at a higher temperature.

**Harold A. Jesky**, Ph.D. '42, is associate professor in Southern Methodist University, Dallas, Texas.

**Robert N. Isbell**, Ph.D. '31, holds the rank of Colonel USAF and is Director of Nuclear Applications, Deputy Chief of Staff Development. He is attached to Headquarters, Air Research and Development Com-

mand. Mail address: P.O. Box 1395, Baltimore 3, Md. By raising the suggested ante, as several other alumni did, he helped reduce the odds on the \$250 goal mentioned in the epilogue of Newsletter No. 1.

**Roy F. Korfhage**, Ph.D. '27, in a sense came home after 26 years in Fulton, N. J., where he had been on the staff of The Nestle Company. Last September he joined Ambrosia Chocolate Company of Milwaukee as Technical Director.

When **William F. Krause**, Ph.D. '34, left Madison upon graduation, he entered the employ of Globe Oil and Refining Co. He is now Technical Manager of its Lemont, Ill., plant and is living at 10 Logan St. in that village. The Krause family includes twin boys, age 15, and a daughter, 9. Dr. Krause finds municipal finance an interesting hobby and has been treasurer of Lemont since 1946, a position which he finds extremely interesting.

**Arthur D. Lohr**, Ph.D. '42, is a research chemist in Hercules Powder Company's Experiment Station, Wilmington. Del. His title: Supervisor, Naval Stores.

**Roger H. Lueck**, M.S. '21, is currently serving American Can Company, 100 Park Ave., New York 17, as general manager of its Research and Technical Department. His suggestion that the alumni themselves help in gathering news for the "This 'n' That" page is a welcome one. And as a man of his word he wrote, "Here in New York I frequently run into **Wilbur Lazier** in the monthly meetings of the Association of Research Directors—I am constantly running into **Wakefield**, now with Carbide and Carbon Chemicals Corporation (who) probably attends more scientific and technical meetings than any alumnus I know of."

**George B. Lyons**, B.S. '21, has been teaching science in Wisconsin high schools since graduation. A two-year fling at administration apparently left him with no great enthusiasm for this type of activity because he wrote, "The more I saw of principals and superintendents, the more I liked vanilla". Confessing to a "lousy" record as a student, he wrote, "but I sent you some good ones from Kohler (Wis.)"

**John Metschl**, Ph.D. '23, is Director, Technical Information Service, with Gulf Research and Development Co., Pittsburgh 30.

Occasionally an alumnus, after having captured a Ph.D. degree, enrolls in a medical school and adds an M.D. to his string of academic accomplishments. Marquette Uni-

(continued on page 9)



(continued from page 8)

versity School of Medicine's **Donald A. Roth**, '44, is one who did just that. But it becomes a matter of real news when a Ph.D. in one major sets his sights for another in a second field. In this category is **Fred Meyer** '41 with physical chemistry as his major. Currently he is teaching mathematics in Detroit's Wayne University with another Ph.D.—in math—as his objective.

Now professor of geochemistry in Stanford University is **Konrad B. Krauskopf**, B.A. '31. Konrad is the son of the late Prof. Francis C. Krauskopf, Ph.D., '10, who is remembered with affection by two generations of Wisconsin chemistry students. After graduation from Wisconsin he enrolled in the Graduate School of the University of California, majored in physical chemistry, and won his Ph.D. there in '34. Five years later Stanford conferred upon him the same degree; as a major in geology. In 1941 he published his first book, "Fundamentals of Physical Science."

Dr. Krauskopf's children have all found academic life to their liking. Daughter Elizabeth embarked upon a teaching career after obtaining her doctorate in bacteriology at Wisconsin in '39. She is married to O. A. Bushnell, also a Wisconsin Ph.D. in bacteriology, who is on the staff of the University of Hawaii. Daughter Catherine is the wife of **Fred S. Orcutt**, E.S. '31, Ph.D. (bacteriology) '35. He is professor of biochemistry at Virginia Polytechnic Institute, Blacksburg. Mrs. Krauskopf left Madison several years after her husband's death and now resides in Blacksburg.

Described in a recent feature article in the *Milwaukee Journal* as "a dynamic little man (who) has made tremendous contributions to the world's knowledge of blood diseases" is our **Armand J. Quick**, B.S. '18 and M.S. '19, who is now professor and director of the Department of Biochemistry in Marquette's School of Medicine. His climb up the academic ladder is marked by a Ph.D. in chemistry (Ill. '22) and an M.D. earned at Cornell in '28.

**Lila Miller**, M.S. '27, is associate professor of biological chemistry in the University of Michigan's Medical School. Except for a year's absence upon securing her Ph.D. degree there in '36, when she spent a year in Copenhagen on a Rackham post-doctoral fellowship, she has been associated with the University of Michigan since becoming a Wisconsin alumna.

**Stanley B. Mirviss**, Ph.D. '51, is one of several Badger chemists in

the employ of the Chemical Division of Standard Oil Development Company, Esso Research Center, Linden, N. J.

**Ambrose R. Nichols, Jr.**, Ph.D. '39, seems to have gotten about as far from Madison as it is possible to get while remaining within the continental limits. He is professor of chemistry in San Diego State College, San Diego 15, Cal. Except for leaves of absence when he was at Oak Ridge National laboratory and the University of California Radiation Laboratory, he has been in his present location since graduation from Wisconsin. The Nicholises have three children, a boy and two girls.

**George F. Neuman, Jr.**, B.S. '51, became a du Pont employee upon graduation. He is at their Gibbstown, N. J., plant.

When **Fred W. Riley**, B.S. '43, found himself out of a job five years ago because Central Soya Co. had reduced its research personnel, he went east and joined up with Atlas Powder Co. in Wilmington, Del. His heart is still in the mid-west but in his book environment rates second to job satisfaction; and one element in the pleasure that he finds in his present work is his training at Wisconsin, particularly quantitative-organic analysis.

**Russell W. Peterson**, Ph.D. '42, is assistant plant manager of du Pont's new Kinston, N. C., plant where "Dacron" is made. The milestones in his path to his present position are research chemist at the Experimental Station in Wilmington; research manager of the development of Dacron; technical superintendent of the plant to be built in Kinston, for which he organized the staff of 75 chemists and engi-

(continued on page 10)

## Who's Your Ancestor in Chem?

An answer to this question is found in a recently completed study by Professor Ihde of the chemical genealogical tree of each senior staff member of the Chemistry Department. This genealogy, which stems from one published for the Illinois staff by Virginia Bartow (**J. Chem. Education**, 16:1939, 236) is based on the premise that a scientist is influenced most significantly by the teacher under whom he takes his highest degree. In tracing back in this way, all lines of descent ultimately converge on one of three chemical pioneers: two Frenchmen, both in their day closely associated with Lavoisier, and a Swede. They

are Count Claude Louis de Berthollet (1748-1822), Count Antoine Francois de Fourcroy (1755-1809), and Earon Jons Jakob Berzelius (1779-1848).

Professors McElvain, Wilds, Holt, Sorum, Hirschfelder, Curtiss, Ferry and King trace their lineage back to Berthollet. Gay-Lussac had studied under Berthollet, and in turn taught Justus von Liebig from whom all lines of descent branch out. McElvain traces his descent back to A. W. Hofmann and Liebig through Roger Adams, Torrey, and C. L. Jackson. All of the others named above find their lines converging on Wilhelm Ostwald who received his degree under Karl Schmidt. The late Professors Kahlenberg, Krauskopf, and Walton also trace back to Ostwald. Kahlenberg took his doctorate at Leipzig under Ostwald, Walton studied under Bredig, an Ostwald student, while Krauskopf took his doctorate under Kahlenberg. The late Professor Adkins may also be considered a part of the Berthollet group since his lineage traces back through Wm. L. Evans, Nef, Baeyer, and Kekule to Liebig. Wilds traces back to Baeyer through Bachmann and Gomberg.

Professors Daniels, Mathews, Hall, Willard, Williams, Alberty and Blaedel derive from Fourcroy. The famous analytical chemist, Vanquelin, took his degree under Fourcroy and was in turn the teacher of Thénard. The line continues in succession to Dumas, J. P. Cooke and T. W. Richards before branching begins. Mathews, Daniels, and Hall took their doctorates under Richards at Harvard and Willard and Williams took their degrees under Daniels while Alberty worked under Williams. Blaedel traces back to Richards through Leighton and Forbes.

The rest of the faculty traces back to Pöerzelius through Wohler. Professors Meloche and George Town, chairman of the Chemistry Department at the Milwaukee Extension, were students of Victor Lenher who had studied under Wohler-trained Edgar Fahs Smith at Pennsylvania. Professor Bender also derives from Smith through Harned at Yale. Professor Larsen traces back to Wohler through another line including Remsen and Fittig, and Professor Wm. S. Johnson traces back to Remsen through Fieser, Conant, and Kohler. Professors Schuette and Klein were students of Emeritus Professor Richard Fischer who traces back to Wohler through Ernst Schmidt and Kolbe. Professor Ihde, who studied under Schuette, also belongs on this line.



## This 'n' That - -

(continued from page 9)

neers participating in the start-up of the new plant; and in June of last year, promotion to his present position.

In 1936, on leaving Wisconsin with his Ph.D. degree a newly acquired possession, little did organic-major **Harry P. Schultz** dream that he would eventually end up in the southern-most university in the country. After somewhat over a year at Merck's in Rahway, N. J., he accepted an assistant professorship in the still pioneering University of Miami. Advancement to a full professorship followed in due course of time. The Schultz family consists of three children, the youngest of which is a set of twins born early last Fall.

**Dr. Elmer L. Sevringhaus**, B. A. '16, is a director of clinical research for Hoffman-LaRoche., Nutley, N. J. He added a professional touch to his contribution in that he indicated a wish to help **Badger Chemist** through its weaning period. And he registered his deep gratitude for having had the opportunity to major in chemistry and to have had the early part of his career so intimately associated with biological chemistry in that both formed an extraordinary valuable background for his work in medicine.

The first sixteen years of **Lester S. Sinness**, Ph.D. '35, association with the du Pont Company were spent in the Textile Fibers Department in research, primarily on viscose rayon. This turn of duty was followed by a year and a half in production as Director of Manufacturing of acetate and Orlon. Now his title is that of Manager of the Sales Divisions, with responsibility for the sale of du Pont's man-made fibers: rayon, acetate, nylon, Orlon and Dacron. The Sinness' have an eleven-year old son. They are living in Alapocas, a Wilmington suburb.

California-born **A. J. Stamm**, Ph.D. '26, invites old grads visiting Madison to call on him at the Forest Products Laboratory because he would be delighted to show them why a native of that state can not leave Madison. Dr. Stamm is co-author of a recently published book, *Chemical Processing of Wood*. It was written primarily to interest the reader in the utilization of wood waste. He has also authored Chapters in each of the two volumes of "Wood Chemistry" which appeared

in its third edition this Spring. It is a book which, reportedly, has gained the reputation of being the Bible of wood chemists.

Graduation from the Chemistry Course in '16; duty during World War I in the Chemical Warfare Service; and, since 1926, operation of the Steph Laboratories which he established in Milwaukee at that time for analyses, consultations and research: these activities summarize the past 42 years in the life of **John F. Steph**. Like many another alumnus who had written personal letters with a nostalgic flavor to ye editor, Steph recalled an incident in his "Chemistry 1" days when Professor Kahlenberg wrote the word laboratory on the blackboard with emphasis on its first two syllables. "To me," he wrote, "it has been as much fun as labor". The Steph's have a son at the University taking Freshman Chemistry as a pre-med student. His grades, dad reported, "So far are much higher than the 'old man' received".

**Robt. A. Stobbe**, B. S. '41, is with Kewaunee Manufacturing Company, Adrian, Mich. A good share of the laboratory furniture in the Chemistry Building is Kewaunee equipment. Bob wrote that his laboratory is concerned with product improvement and a search for new materials with which their laboratory equipment is "the best in the world".

**Carl W. Umland**, B. S. '52, holds a responsible position in Raw Materials Control and Development Department of B. F. Goodrich Co., Akron, O., and is one of its three crude-rubber inspectors.

**G. M. Whitman**, Ph.D. '40, is Laboratory Director, Chemical Department of du Pont's Experimental Station.

**Wendell G. Wilcox**, Ph.D. '09, who was an instructor in chemistry for two years following graduation, retired six years ago as vice-president of Morton Salt Company and then for a while directed the research program of the Salt Industry. He bowed out completely in December 1952 and took up permanent residence in Winter Park, Fla. He describes his adopted home town as residential rather than tourist and made up largely of retired teachers, lawyers, engineers, scientists, and business executives; a community supporting a University Club with a membership of 800 of which about one third are listed in Who's Who, and a Sigma Xi alumni club.

**John Steiner**, Ph.D. '33, is director of research with Guardite Cor-

poration, Chicago, manufacturers of food processing equipment. His home address: 319 E. Birch St., Milwaukee 11.

**Lt. Lois E. Sudnick** (nee Kolosky), B.A. '50, is attached to the Publications Department, Chemical Corps School, Fort McClellan, Ala.

**Charles C. Templeton**, Ph.D. '48, is senior research chemist in Shell Development Company's Exploration and Production Research Laboratory, Houston, Texas.

**David Vea**, B.S. '50, is enrolled in the Graduate School of Stanford University with a master's degree in business administration as his objective. An NROTC student while in school, upon graduation he was assigned to a destroyer on which as a gunnery officer he saw service in the far East, the Atlantic Ocean and the Caribbean Sea. His address: Stanford Fire Department.

**Warren W. Woessner**, Ph.D. '40, wrote that his life with du Pont is never dull and that last November he was taken out of Industrial Hygiene and promoted to a chief supervisorship in the Basic Color Area of the Chambers Works Plant. The Woessner's and their three boys are living in their new house on Chestnut Drive, RFD 1, Woodstown, N. J.

**Robert A. Willihnganz**, B. S. '37, is currently dividing his time between consulting and as sales representative for several companies in the Detroit area. Bob put himself through college in part by doing a mail order business in construction kits for toy electric trains of which he sold 17,000 at 35 cents each. His address: 7360 Honeysuckle Road, R. 1, Walled Lake, Mich.

**Wm. R. Rinelli**, B.S. '33, is assistant director of research and development with Ansul Chemical Company of Marinette, Wis.

**Agnes Challoner Rogers** (Mrs. A. J.) B.A. '10, and her husband own and have operated for 10 these many years, Thrushwood Orchards in Beulah, Benzie Co., Michigan.

**Joseph Walker**, Ph.D. '50, is supervisor of the 22-man Physical Chemistry Section, Analytical Research and Service Division of Pure Oil Company's laboratories in Crystal Lake, Ill. The Walker's are Beiloit alumni. They have three children.

Dr. and Mrs. O. J. Plescia (**Anne Marani**, M.A. '49) announced the birth last October of a daughter, Nina Michele.

On the roster of the scientific staff of S. C. Johnson and Son, Inc. (continued on page 11)

(continued from page 10)

of Racine, Wis., will be found the following Badger chemists: **J. V. Steinle**, Ph.D. '24, who is vice-president, Research and Development; **E. S. McLoud**, B.S. '31, M.S. '35, Basic Research Director; **Margaret M. Rendall**, B.A. '45, and **Orlando Tweet**, M.S. '47. Their employer has supported a fellowship in the Department since 1945.

**Robert E. Burks, Jr.**, Ph.D. '48, heads up the organic chemistry section of Southern Research Institute, Birmingham, Ala. His reaction on laying aside Newsletter 1: "The information included and the writing were superbly chosen for maximum interest". As did several other appreciative alumni, he volunteered to send more than the suggested contribution if we didn't make ends meet. (He did.)

**Robert S-H Chiang**, Ph.D. '53, his wife, the former **Ruby Wong**, M.S. '49, and their little daughter, Amy, are living at 107B Robert Lane, Monroe Park, Wilmington 6, Del. The foreign-born Chiangs wrote, "We always wish we (could) do something for our department to show our appreciation of everything we received from her when we were students."

Former instructor, **H. B. North**, B.S. '04 and M.S. '06, and D.Sc., University of Paris '08, is president of North Metal and Chemical Company, York, Pa. Last year, along with others, he was presented with a certificate attesting to his half-century membership in the American Chemical Society. Our own Dr. Daniels, who was then president of the ACS, officiated at the presentation ceremonies.

**Russell Johnsen**, Ph.D. '51, who has been assistant professor of organic chemistry and chairman of the physical science course at Florida State University, Tallahassee, since graduation was co-director of Florida State's Science Camp last summer. The camp, established to stimulate greater interest in science as a career, was a ten-day program attended by a selected group of high school juniors and seniors who heard lectures by faculty members and participated in laboratory studies and field trips. Russ' project received a pictorial presentation from **C & E N** (August 3, 1953) and **Scientific Monthly** (78:1954, 37) published a detailed account of the camp and its objectives.

Born in Wisconsin, raised in Wisconsin, and a lifetime teacher at his alma mater; that is the story of

Prof. **Emil Truog**, B.S. '09, M.S. '12, who retired July 1 after 45 years in the Soils Department of the College of Agriculture. Although he never left the boundaries of his home state, yet his influence expressed in terms of soil improvement, has been international.

Under the caption Experiment in St. Louis, **Time** magazine described in its February 15 issue the "pilot project" of an experimental clinic for retarded third-graders in the public schools of that city. The clinic was set up by Public Superintendent of Instruction, **Philip J. Hickey**. Missing from the story are the following biographical details: B.S. '18, M.S. '20, and sometime graduate assistant in the University of Wisconsin; a rise from the ranks to his present position and recognition for his contributions to education.

With an experience background of some 29 years in private industry—Donnelly and Sons, National Aniline, Monsanto, and Pennsylvania Coal Products Company—broken by a brief interlude as a faculty member of Butler University and then as chief chemical examiner with the U. S. Civil Service Commission, **William J. Cotton**, M.S. '12, set up his own business in Milwaukee in 1947 as consulting chemist and chemical engineer.

**Lucien Gagneron**, M.S. '45, is employed by Archer-Daniels-Midland Company, at their Wyandotte, Michigan, affiliate. His wife is the former **Bernnardine Poch**, E.A. '45. Theirs was a laboratory romance.

Another "discovery" of the foregoing kind — this one can be pinpointed to an introduction on the front steps of the Chemistry Building during the summer session of 1948 — culminated on New Year's Eve, 1949 in the marriage of Malinckrodt's **James T. Venerable**, Ph.D. '49, and Sally Stokes of Moorestown, New Jersey. Jim finds Minnesota canoe trips invigorating but lists as his hazardous experiences the two times when he served as a Republican watcher in a St. Louis Democratic ward. Of them he wrote, laconically, "Oh brother!"

**Orlan M. Arnold**, Ph.D. '34, makes his home at 1330 Kensington Road, Grosse Pointe Park 30, Michigan. His comment, "I think it (**Badger Chemist**) is an excellent idea in keeping information of the good Chemistry Department's activities before the alumni group," was the substance of the reactions of many of you to this new venture of the Department of Chemistry.

**Eleanor Pennington Dunn** (Mrs.

Peter J.), B.A. '29, wrote that her chemical training had been used only periodically in the past 24 years in any industrial or semi-professional capacity, and that she has been chiefly concerned with a career as "household engineer" and mother of two sons. The oldest, Peter, Jr., is an Illinois graduate and is employed as a research analyst by the Northern Trust Company, Chicago. Ten-year-old David seems to be endowed with a scientific mind. Will he, like his mother, join the chemistry alumni ranks in due time?

After earning his B.S. degree in '49, **Robert B. Hendrickson** set his sights for a Minnesota M.S., which he secured in '51 with analytical chemistry as his major. He is employed by Eastman Kodak Company, Rochester, New York, in its Color Technology Division.

**Alan G. MacDiarmid**, Ph.D. '53, wrote last January from Cambridge, England, to say that he and **Marian L. Mathies**, B.A. '52, of LaSalle, Illinois, would be married in that city during the summer of 1954.

**James C. Masson**, B.S. '43, is engaged in research and development (continued on page 12)

## The Challenge Of Our Times

This is the title of the book developed from lectures given in Contemporary Trends 103, a course for seniors in all colleges, by twenty professors in the natural and social sciences who collaborated in the examination of some of the problems of our times. The opening sentences of the foreword, written by its editor, Farrington Daniels, who was active in starting the course several years ago, appear best to express the tone of the entire book. They read, "It is now within our power to guide the future for the benefit of all people. This is the challenge of our times". Assistant editor of this publication is Thomas Smith, sometime graduate assistant in History of Science and now at Cal. Tech.

Described by one reviewer as a record of one of the University's successful ventures which its sponsor has proudly made available to the general public, and acclaimed by a college president as an absorbing book, the best effort of its kind that he had ever seen, this 364-page, photo-offset, cloth-bound publication is priced at \$3.50. It can be obtained through the University Co-op in Madison, or from the Burgess Publishing Co., Minneapolis 15, Minn.



## This 'n' That - -

(continued from page 11)

work for American Brake Shoe at the Mahwah (New Jersey) Research Center.

**F. N. Peters**, Ph.D. '25, is vice-president of chemical research with Quaker Oats Company, Chicago. Pete would like to hear about the group of graduate students that "hung around the 'bull pen' between 1922 and 1925."

**Takeru Higuchi**, Ph.D. '43, has been promoted to professor in Wisconsin's School of Pharmacy.

**C. S. Copeland**, E.S. '30, completed his formal education at the University of Minnesota which conferred upon him the Ph.D. degree in '37. He is now a member of the chemistry faculty, University of Southern California in Los Angeles.

**Carl J. Djerassi**, Ph.D. '46, holds an associate professorship in Detroit's Wayne University. National University of Mexico conferred upon him an honorary D.Sc. in '53.

**Paul Ehrlich**, Ph.D. '51, reported his address as Gibbs Laboratory, Harvard, Cambridge 38, Massachusetts.

A member of the faculty of College University, Hamilton, New York, since 1932, **Sydney J. French**, Ph.D. '28, is now dean of its faculty. He entered the teaching profession upon graduation from Superior State Teachers' College, spent several years as high school teacher in this Wisconsin city, was graduated from the University of Chicago, B.S. '22, and for three years was a teaching assistant at Wisconsin. He is the author of several books: among them "The Drama of Chemistry," "Torch and Crucible, The Life and Times of Lavoisier."

**Herbert M. Gaarder**, B.S. '16, is engaged in research and development work in the By-Products Section of Nilson and Company, Chicago.

**E. T. Lessig**, Ph.D. '29, is with the B. F. Goodrich Company, Akron 18, Ohio. His home address: 1430 Graham Road, Cuyahoga Falls, Ohio.

**D. J. Lohuis**, M.A. '36, is employed by the American Can Company, Maywood, Illinois. His home address: 385 Oaklawn, Elmhurst, Illinois.

Insurance, rather than chemistry, is providing the livelihood for **Ralph R. Marquardt**, B.S. '28, who operates an agency under the family name in Sauk City, Wisconsin.

Among the early replies to our questionnaire of last November was one returned by **D. L. Mayfield**, Ph.D. '50. He was at the time chair-

man-elect of the Washington-Idaho Border Section of the American Chemical Society.

Ditto, for the second time, for high school teacher **Alfred D. Luden**, M.S. '23, of Duluth, Minnesota, with respect to the Lake Superior Section.

**J. H. Paden**, Ph.D. '36, is with the American Cyanamid and Chemical Corporation, Stamford, Connecticut.

**T. H. Pearson**, Ph.D. '51, is a staff member of the Department of Chemistry, Hampden-Sydney College, Virginia.

**Robert B. Reynolds**, Ph.D. '28, resigned his instructorship in Northwestern University in 1940 to join the staff of Hollingsworth and Whitney Company, Mobile, Alabama. Our last information is that he was advanced to associate research director in 1946.

**E. Earl Royals**, Ph.D. '44, is associate professor of organic chemistry, Emory University; author of a recently published textbook, "Advanced Organic Chemistry" (Prentice-Hall); and father, at last report, of two sons, Homer 8, and Joe, 6.

**James K. Fogo**, B.S. '40, is employed by Union Oil Company of California at their Research Center in Brea.

**Warren R. Biggerstaff**, Ph.D. '48, is on the faculty of Fresno State College, Fresno 4, California.

**George C. Bailey**, B.A. '09, received his 1953 copy of *Badger Chemist* in the Orient where it caught up with him in Singapore late in December. Retirement has given him an opportunity of following a hobby, that of traveling. In this instance it took him on a tour of the East: Java, Bangkok, Rangoon, and to India where he spent seven weeks.

On the employees' roster of Abbott Laboratories, North Chicago, Illinois, will be found the names of **Charles E. Hoffine, Jr.**, B.S. '42, who is in the Research Division, and research librarian **Virginia M. Schelar**, M.S. '53.

Sunkist Growers, Research Department, Corona, California, is the address of **Glenn H. Joseph**, Ph.D. '27.

**Truman P. Kohman**, Ph.D. '43, is a member of the staff of the Department of Chemistry, Carnegie Institute of Technology, Pittsburgh.

**Earl L. Whitford**, Ph.D. '24, is president of Oldbury Electrochemical Company, Niagara Falls, New York. Last fall he made a 25,000-mile trip to Australia and New Zealand. He wrote, "Spent a few days with Mrs. W. at Waikiki—Soft breezes, soft music and not so soft

drinks." Another Badger chemist in the right business!

At a banquet of the associated chemical societies held November 11, 1953, **George W. Heise**, B.S. '09, M.S. '12, was awarded a certificate of merit for his contributions to the advancement of the chemical profession in the Cleveland, Ohio, area. Since his retirement from National Carbon Research Laboratories, he has been active as consultant in electrochemistry, and as chairman of the Primary Battery Panel for the Committee on Underseas Warfare, National Research Council.

## Our Cosmopolitan University

Although three-fourths of its students came from Wisconsin homes the past year, the University continues to be one of the nation's cosmopolitan institutions of higher learning, according to figures recently released by the administration. Among some 2,960 non-resident students there were representatives of foreign nations ranging alphabetically from Afghanistan and Australia to Venezuela and Vietnam.

The Department of Chemistry had its share of foreign graduate students in this group, and they claimed Australia, Canada, China, Egypt, India, Sweden, Thailand, and Venezuela as their respective homelands. From territorial Hawaii came three students.