NEWSLETTER

Indiana University
Association of Chemists
ASSOCIATION OF INDIANA UNIVERSITY CHEMISTS

NEWSLETTER

Vol. XV Fall, 1967

(We regret that owing to the prolonged illness of her mother, Miss Dickey was delayed in issuing the Spring Newsletter so long it became advisable to omit its production.)

Association News

Meetings

The Association met for a Social Hour April 11 at Miami Beach during the National meeting of the American Chemical Society. J. C. Warner (PhD’23) of Pittsburgh, who has retired as president of Carnegie Institute of Technology, has been the president of the Association during 1966-67. George F. Bulbenko (PhD’58), of Thiokol Chemical Corporation is president-elect. Dr. Day and Miss Dickey continued to serve as secretary-treasurer, and as editor of the Newsletter, respectively. The next meeting was a Social Hour September 11 at Chicago during the National ACS meeting. An election of officers for the coming year was held at that time.

Treasurer's Report

Balance, 1 September 1966 547.92
Receipts (contributions from alumni and friends) 73.00

Expenditures
Fall 1966 Newsletter 167.83
AIUC Social Hours:
   New York 25.00
   Miami 45.00
Bank Service Charges .60

Balance, 23 May 1967 213.43

407.49

No appreciable changes occurred during the Summer.
The Directory

The 1966 Fall Newsletter announced plans for issuing a new, up-to-date directory of the Association membership and contained a questionnaire to supply information for it. We thank the many hundreds who mailed us the green cards and hope more of you will send them so the job of compiling the directory can go forward to early completion. If you have not already sent in information about yourself, won't you please take a minute to jot down the few particulars requested on the questionnaire card enclosed in this Newsletter and mail it to AIUC, Chemistry Department, Indiana University, Bloomington, Indiana 47401. We would also be very glad to have any news about you and your family. This is the last call for Directory information.

The Robert Chernin Memorial Award

The recipient of the Robert Chernin Award this year was Roger Saillant who was selected on the basis of his outstanding work on his C500 research project. The title of the report of his work, which he carried out under the direction of Dr. R. A. D. Wentworth, was "Chemistry Related to the Enneachloroditungstate Ion." Roger is a graduate of Bowdoin College where he was a student of Dana Mayo (PhD '59). His home is in Doylestown, Pennsylvania, and he plans to continue his work toward the Ph.D. at I.U.

PLANS FOR SCIENCE DEVELOPMENT IN CHEMISTRY
AT INDIANA UNIVERSITY

Indiana University has received a major grant from the National Science Foundation under its University Science Development Program (the "centers-of-excellence" program). The basic award of $3,786,000 is to be used to strengthen the physical sciences including especially chemistry, chemical-physics, and physics.

The award will be used principally to finance acquisition of major equipment items and to accelerate the addition of faculty and non-academic staff. A large university contribution will go mainly to provide building expansion, indirect costs, and additional equipment. The program is designed to compress ten years of normal growth into five and to provide equipment and physical facilities equal to the best in any university. The chemistry department expects to spend, from all sources, about $1,500,000 on equipment during the first three years of the grant and then to maintain annual equipment expenditures thereafter at about $350,000 plus increases each year for normal growth. Construction of a $4,000,000 addition to the recently completed new wing of the chemistry building is planned for the next biennium.

V. J. Shiner, Jr., Chairman
Department of Chemistry (Jan. '67)

The News of the Department

Dr. O. W. Brown, beloved emeritus professor of chemistry since 1943, died at his home in Bloomington April 20. He lacked two months of being 94 years old. His remarkably long and impressive connection with the Department began in 1899 as a teacher. Dr. F. Mathers, now 86, was one of his pupils. Dr. Brown's stimulating and indefatigable work in chemical research continued into 1967. A chemistry major, Steve Phillips, aided him during recent years in his continuing studies of vapor phase catalysis. Some have commented that perhaps Dr. Brown worked as much in the laboratory at night, even after he reached 90, as the average graduate student! It is expected that some form of aid for undergraduates in research will be established in Dr. Brown's honor.

The program of renovation of the old part of the chemistry building has brought about many changes and improvements making the laboratory space for undergraduate instruction commensurate with modern experimental techniques as well as with increasing enrollments. More facilities and equipment are now available to afford instruction in currently developing chemical principles using modern educational techniques. The construction most recently completed was that for the undergraduate organic laboratory which was ready in January this year for the beginning of the second semester. This makes a large laboratory across the east end of the first (formerly second) floor. It is well equipped and provides IR and UV spectrophotometers and gas phase chromatographs. Also, it is planned that an A-60 NMR spectrometer will be made available in this laboratory. The Instrumentation Laboratory has been in operation since last fall and presents an impressive array of devices for physical chemistry and analytical techniques in undergraduate courses. This gives substance to new and promising concepts in teaching chemistry.

The Department has this year acquired a time-averaging computer to use in connection with measurements made on the DP-60 NMR spectrometer.
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The Department has this year acquired a time-averaging computer to use in connection with measurements made on the DP-60 NMR spectrometer.
for graduate research. This equipment greatly extends the resolution of the instrument so that data hitherto uncertain or even inaccessible can be obtained almost routinely. The latest acquisition in the NMR line is the HA-100 IL model which has recently been put in operation. With these two spectrometers in addition to the EPR instrument purchased several years ago the Department has exceptionally fine facilities for research in the determination of molecular structure.

The Chemistry Library has all the furniture and equipment installed and is operating smoothly in the new quarters. It contains over 28,000 bound volumes of books and journals. More than 400 periodicals are received regularly, and there are also available many unclassified items such as pamphlets and short papers which provide reference material. By the end of the year it is expected that the number of bound volumes will have reached nearly 29,000. The collection of rare and antique books is being enlarged. It is of interest to students and advanced scholars in other departments as well as in chemistry.

The stockroom has undergone a complete reorganization and is now operating on a computer-based system which makes the buying, accounting, and inventory control much more efficient. Even its name is different—Chemistry Scientific Store—indicating that its service can be extended further to meet the scientific needs of the entire campus. The changeover, which was effected July 1st, involved a tremendous amount of work by the stockroom personnel, since every item in stock had to be inventoried and catalogued and future needs had to be anticipated. The compilation of the catalogue alone was a mammoth task including as it does more than 5300 chemicals and at least 7500 supply and equipment items. If you consider that items must be designated as to size, design, and function and that chemicals must be classified as to quality, etc., you will appreciate how detailed the catalogue must be. Faculty, graduate students and certain other personnel have been issued credit cards to be used for obtaining items listed in the catalogue.

The conversion project, requiring nearly three years of careful planning and negotiation on the part of the Department of Data Systems, the Purchasing Department, the chemistry storeroom manager and Dr. Don Mc-Masters who was coordinator, is a tremendous step forward. Supplying equipment and reagents for the myriad research programs as well as for the undergraduate laboratory courses is a complex business inconceivable back in the days when half a dozen Pyrex beakers were items of curiosity and cherished acquisitions. All those involved in planning the reorganization are to be commended for its achievement with so little disruption of service in the stockroom.

As customary, the chemistry faculty have been engaged in many research and related activities. A large number attended and gave papers at American Chemical Society meetings during the year. Furthermore, many research papers emanating from the Department appeared in print. The following represents some especially newsworthy activities: E. Campagne became a member of the American Chemical Society Patent Matters Committee and chairman-elect of the Division of Medicinal Chemistry. M. Carmack spent several weeks in Australia this summer engaged in research and consulting with some of the organic sulfur groups. On his return, he and Dr. Hauwertz attended the International Biochemical Congress in Japan. E. H. Cordes was a visiting professor at the University of San Marcos (Lima, Peru) last fall. In 1966 he was given a five-year Research Career Development award by the National Institutes of Health.

H. G. Day was the 1966 recipient of the Meritorious Service Award for outstanding service to the community. It is given annually by the Monroe County Community Council. He continues to serve as a councilman in the Bloomington City government. He is chairman of the Bloomington Hospital Advisory Council and Chairman of the Board of the Monroe County Community Action Program. In June he received an honorary Sc.D. degree from Cornell College (Iowa). In March he became Associate Dean for Research and Advanced Studies, but he will continue to serve as Undergraduate Adviser in Chemistry.

G. Ewing was an invited lecturer at the Gordon Conference on Infrared Spectroscopy and at the American Physics Society. H. R. Mahler became a member of the Editorial Board of Archives of Biochemistry and Biophysics, a member of the Biochemistry Study Section of the United States Public Health Service, and a consultant to the National Science Foundation for metabolic biology, molecular biology and neurobiology. He was invited to lecture at the Gordon Conference on Nucleic Acids, at meetings of the Czechoslovak Biochemical Society, the Czechoslovak Academy of Science, and the Belgian Chemical Society.
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L. K. Montgomery was a visiting professor during the summer of 1966 at the University of Illinois and was appointed consulting editor for organic chemistry for Holt, Rinehart and Winston Company. C.S. Parmenter was invited to lecture at the Symposium on the Triplet State at the American University (Beirut, Lebanon) and at the Symposium on the Photochemistry of Polyatomic Molecules at the University of Minnesota.

W. B. Schaap became Associate Dean of the College of Arts and Sciences in 1966, and was invited to lecture at the Symposium on Nonequilibrium Chemistry at the International Meeting of the Electrochemical Society. R. O. Schaeffer was appointed chairman of the Department for 1967-71. He assumed his new duties on July 1. During the past year he has lectured before various groups. He visited laboratories and did research in Germany and Switzerland during 1966-67.

V. J. Shiner, Jr. chaired scientific sessions of the Organic Reaction Mechanism Conference and of the Gordon Conference on the Chemistry of Isotopes. H. Shull became Dean of the Graduate School in 1966, a member of the Editorial Board on the International Journal of Quantum Chemistry, continued in the capacity of chairman of the Chemistry Advisory Panel of the National Science Foundation, Consultant of the Office of Science Information Service of the National Science Foundation, Chairman of the Chemistry Selection Panel for awards under the Fulbright Act, and acted as co-chairman of the Symposium on Computers in Chemistry.

E. Wenkert became a member of the Editorial Board of Accounts of Chemical Research and a member of the review committee of the United States Public Health Service for medicinal and organic chemistry fellowships. He was the Barton lecturer at the University of Oklahoma. R. A. D. Wentworth was invited to lecture at the American Chemical Society Symposium on Instrumental Techniques as Aids in the Determination of the Structure of Complex Ions.

The number of graduate students in the Department has increased to 176 this year. These students have come to IU from all over the U.S. and from many foreign countries including Australia, Brazil, China, Hong Kong, India, Iran, Israel, Okinawa, the Phillipine Islands, South Africa, and Thailand. We are fortunate to have contact with people from so many different parts of the world and thus to have our noted Hoosier provincialism modified by an exchange of ideas and customs. Throughout the campus this year there have been students from 88 foreign countries, so it is indeed a cosmopolitan community.

Alumni Notes

John A. Bornmann (PhD'58) was appointed Chairman of the Division of Natural Sciences and Mathematics at Lindenwood College, St. Charles, Missouri, last summer. A. L. D. Norman (PhD'60) joined the faculty of the University of Colorado last fall as Assistant Professor of Chemistry. Ralph E. Christofferson (PhD'64) is Assistant Professor in the Chemistry Department at the University of Kansas, Lawrence. After carrying on postdoctoral research at Purdue, Jubran M. Wakim (PhD'65) joined the Procter and Gamble Miami Valley Laboratories in 1966. Bernard R. Schaafsm (PhD'44) has been appointed Director of Research and Development at the Amway Corporation in Ada, Michigan. Two of our alumni have received promotions at Eli Lilly and Company, Indianapolis. Dr. Robert L. Mann (BS'45) was appointed Director of Chemical Research, and Charles H. Boxman (AB'53) was advanced to Analytical Chemist.

Floyd L. James (PhD'37), Professor of Chemistry, Miami University, Oxford, Ohio, is Chairman of the Cincinnati Section of the ACS for 1966-67. Ramon A. Mulholland (AM'42), who is Director of Market Research and Development at Richardson Company, Chicago, was elected Chairman of the Division of Chemical Marketing and Economics of the ACS. Earl E. Parker (PhD'43) has been appointed Scientist in the Coatings and Resins Division at the Research and Development Center of Pittsburgh Plate Glass Company, Springdale, Pennsylvania.

Harold H. Zeiss (BS'38) is President of Monsanto Research in Zurich, Switzerland. He received the Ph.D. degree at Columbia University and served on the faculty at Yale University before joining Monsanto in 1955. He is the author of papers on mechanisms of organic oxidation reactions, stereochemical problems, and organometallic compounds. F. Leo Kaufman (PhD'39), Swift and Company, Chicago, is Chairman-elect of the ACS Division of Agricultural and Food Chemistry. Dr. William J. Sparks (AM'29), who is past president of the ACS, retired from his position as Science Advisor for the Esso Research and Engineering Corporation, February 1. He was recently elected to the National Academy of Engineering. Steve Humphrey (PhD'65) has joined the research staff of General Electric's Research and Development Laboratory in Schenectady, New York.
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Dr. Herbert S. Gutowsky (AB'40), head of the Department of Chemistry and Chemical Engineering of the University of Illinois, is chairman of the ACS Division of Physical Chemistry. Joseph R. Leal (PhD'52) is now with the Materials Science Research Section at Celanese Research, Summit, New Jersey. Gunter Melzer (PhD'64) is at the duPont Laboratories in Circleville, Ohio, having formerly been in Sao Paulo, Brazil, for a year as a postdoctoral fellow. He visited the Department during the Thanksgiving Holiday. Bam Mehrrota (PhD'63) has returned to the Department as a research associate of Dr. Mahler. Joseph R. Siefker (PhD'60) is Chairman-elect of the Wabash Valley Section of the ACS, and Linnaeus Dornan (PhD'61), Research Chemist with Dow Chemical, is Secretary of the Midland Section.

Mary Heffernen (MS'66), who is now Mrs. Richard H. Bradford, returned to the Department last fall and is a technician in Dr. Campagne's group. Dr. Noel Jacobson, postdoctoral associate of Dr. Campagne 1962-63 from Australia, is now teaching in the Department of Chemistry at the University of Queensland, Brisbane. P. K. Ghosh (PhD'64) visited the Department with his wife and son last October. He was on his way back to India to take a teaching position after having been at Rice Institute.

Robert Forney (PhD'48), IU Medical Center, was elected President of the International Association of Toxicology at the meeting in Copenhagen last summer. Jean Shillit (BS'50) is employed at duPont in Wilmington, Delaware. We were interested to see her pictured as one of a group in the employee magazine "Better Living" which was issued last winter. We spotted Mansukhvali Wani (PhD'62) in a picture in a December issue of C and E News with other chemists at Research Triangle Institute, Durham, North Carolina -- the group who first isolated camptothecin, a natural compound with antitumor activity.

Glenn Berchtold (PhD'59) and Dr. Campagne lectured in a special series on Contemporary Research in Organic Sulfur Chemistry held at Wayne State University during the 1967 Spring quarter. Dr. Harry C. Gatos (MA'48), professor of metallurgy and of electrical engineering at MIT, has been elected president of the Electrochemical Society. Dr. Joseph C. Mulher (PhD'51), research professor of basic sciences in the IU School of Dentistry, received the Navy Award this year. He is the first civilian to receive this highly prized recognition. He was selected by the 1967 Senior Class to receive its Distinguished Alumni Award in recognition of his work in prevention of tooth decay. Joseph DiSalvo (PhD'65) has been appointed Director of the IU Aerospace Research Applications Center. John Timell (PhD'66) left the Department last September to carry on postdoctoral work at the University of California in Los Angeles. Grant Ganzinger (MS'66) is now in Arizona. Dr. Zenaburo Kumazawa, research associate with Dr. Wenkert since 1965, this spring returned to Me University, Japan, where he is Professor of Chemistry.

Recent visitors in the Department include the following: Robert D. Donaldson (BS'42), Toms River Chemical Corporation, Toms River, New Jersey; David C. Herrick (BS'66), Penn State University, Department of Geochemistry and Mineralogy; Dean John S. McAnally (PhD'50), Occidental College, Los Angeles; M.B. Lindsey (PhD'52), Film Department of E.I. duPont, Buffalo, New York; Clyde Metz (PhD'66), Purdue Extension Division, Indianapolis; Wesley Archer (PhD'53), Dow Chemical Co., Midland, Michigan; George S. Kriz, Jr. (PhD'66) and Kay David (Valdo) Kriz (BS'66), Columbus, Ohio. George is doing postdoctoral research at Ohio State University, and his wife is with the Chemical Abstracts Service; he has recently accepted a teaching position at Western Washington State College, beginning this fall.

Graduate students who have been awarded the Ph.D. degree this year and have gone elsewhere to continue their chemical careers include the following: Edmund Flexman has gone to the duPont Laboratories in Wilmington, Delaware to do research in polymer chemistry; David Kleinschmidt is in England carrying on research at University College, London; Gerald Holleman is with the Army Chemical Corps at Anniston, Alabama; Suraj P. Maikhia has gone to Alabama State College; John Matt is in Newark, Delaware; Ralph White has joined the School of Pharmacy of the University of North Carolina; Henry Longerich has accepted a position on the faculty of the Chemistry Department of the University of Alaska.

Others who have completed work for the Ph.D. degree: Talmadge Bosin; Richard E. Brown; Hollace L. Cox; Jerry Dobson; Richard L. Ellis; Denis A. Kohl; Rameshwar Krishnamurthy; Curtis S. McDowell; Antonio Macias; Diane Wakefield; Lynn Applegate; David Berges; Luan-Ho Chang Lin; Franklin Frayer; and P. Christian Vogel.

The M.S. degree was awarded to the following: Judith L. Adams; John C. Huffman; Bette Jo Remus; Judith Ann McKevitt; and Ralph May,
Dr. Herbert S. Gutowsky (AB’40), head of the Department of Chemistry and Chemical Engineering of the University of Illinois, is chairman of the ACS Division of Physical Chemistry. Joseph R. Leal (PhD’52) is now with the Materials Science Research Section at Celanese Research, Summit, New Jersey. Gunter Meier (PhD’64) is at the duPont Laboratories in Circleville, Ohio, having formerly been in Sao Paulo, Brazil, for a year as a postdoctoral fellow. He visited the Department during the Thanksgiving Holiday. Bam Mehrtra (PhD’63) has returned to the Department as a research associate of Dr. Mahler. Joseph R. Siefker (PhD’60) is Chairman-elect of the Wabash Valley Section of the ACS, and Linnaeus Dorman PhD’61, Research Chemist with Dow Chemical, is Secretary of the Midland Section.

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Robert Forney (PhD’48), IU Medical Center, was elected President of the International Association of Toxicology at the meeting in Copenhagen last summer. Jean Shillit (BS’50) is employed at duPont in Wilmington, Delaware. We were interested to see her pictured as one of a group in the employee magazine “Better Living” which was issued last winter. We spotted Mansukhlal Wani (PhD’62) in a picture in a December issue of C and E News with other chemists at Research Triangle Institute, Durham, North Carolina -- the group who first isolated camptothecin, a natural compound with antitumor activity.

Glenn Berchtold (PhD’59) and Dr. Campagne lectured in a special series on Contemporary Research in Organic Sulfur Chemistry held at Wayne State University during the 1967 Spring quarter. Dr. Harry C. Gatos (MA’48), professor of metallurgy and of electrical engineering at MIT, has been elected president of the Electrochemical Society. Dr. Joseph C. Mahler (PhD’51), research professor of basic sciences in the IU School of Dentistry, received the Navy Award this year. He is the first civilian to receive this highly prized recognition. He was selected by the 1967 Senior Class to receive its Distinguished Alumni Award in recognition of his work in prevention of tooth decay. Joseph DiSalvo (PhD’65) has been appointed Director of the IU Aerospace Research Applications Center. John Timell (PhD’66) left the Department last September to carry on postdoctoral work at the University of California in Los Angeles. Grant Ganzinger (MS’66) is now in Arizona. Dr. Zenasburo Kumazowa, research associate with Dr. Wenkert since 1965, this spring returned to Mie University, Japan, where he is Professor of Chemistry.

Recent visitors to the Department include the following: Robert D. Donaldson (BS’42), Toms River Chemical Corporation, Toms River, New Jersey; David C. Herrick (BS’66), Penn State University, Department of Geochemistry and Mineralogy; Dean John S. McAnally (PhD’50), Occidental College, Los Angeles; M.B. Lindsey (PhD’52), Film Department of E.I. duPont, Buffalo, New York; Clyde Metz (PhD’66), Purdue Extension Division, Indianapolis; Wesley Archer (PhD’53), Dow Chemical Co., Midland, Michigan; George S. Kriz, Jr. (PhD’66) and Kay Dian (Waldo) Kriz (BS’66), Columbus, Ohio. George is doing postdoctoral research at Ohio State University, and his wife is with the Chemical Abstracts Service; he has recently accepted a teaching position at Western Washington State College, beginning this fall.

Graduate students who have been awarded the Ph.D. degree this year and have gone elsewhere to continue their chemical careers include the following: Edmund Flexman has gone to the duPont Laboratories in Wilmington, Delaware to do research in polymer chemistry; David Klein-schmidt is in England carrying on research at University College, London; Gerald Holleman is with the Army Chemical Corps at Anniston, Alabama; Suraj P. Makhija has gone to Alabama State College; John Matt is in Newark, Delaware; Ralph White has joined the School of Pharmacy of the University of North Carolina; Henry Longerich has accepted a position on the faculty of the Chemistry Department of the University of Alaska.

Others who have completed work for the Ph.D. degree: Talmadge Bosin; Richard E. Brown; Hollace L. Cox; Jerry Dobson; Richard L. Ellis; Denis A. Kohl; Romaswamy Krishnamurthy; Curtis S. McDowell; Antonio Macias; Diane Wakefield; Lynn Applegate; David Berges; Luan-Ho Chang Lin; Franklin Frayer; and P. Christian Vogel.

The M.S. degree was awarded to the following: Judith L. Adams; John C. Huffman; Bette Jo Remus; Judith Ann McKevitt; and Ralph May,
Judith Adams has joined the Biochemical Research Laboratory of the Dow Chemical Company at Midland, Michigan. Clayton Atkins received the M.A.T. degree.

Following is a list of the June A.B. degree recipients with their plans for employment or continued study: Garland Bellamy, graduate work at University of Washington (Seattle); James Blosser, graduate work at Michigan State; Thomas Bodnar, combined degree program at L.U.; John Brown, L.U. Medical School; Sandra Bye, Pitman-Moore Company; Michael Cashman, L.U. Medical School; Sarah Chesrown, Medical College of Virginia; Irene (Cuffey) Franklin, graduate work in microbiology, University of Illinois; Kenneth Culbertson, L.U. Medical School; Robert Desman, Goodyear Tire and Rubber Technical Trainee; Samuel Gaskins, graduate work at DePauw University; Thomas Goede, Bethlehem Steel, technical trainee; Jacob Goldberger, L.U. Medical School; John I. Gromer, VISTA Volunteer; Stephen Hawkins, Malcolm Herring, and Michael Jagger, all L.U. Medical School; Robert Hickam, L.U. Dental School; Ralph Kendrick, U.S. Navy; James Kieffer, Stritch Medical School, Loyola University (Chicago); Richard Knapek and Linda Koehler, L.U. Medical School; John M. Kokosa, graduate work at University of Wisconsin; Gerald Kuykendall and Gregory Kwasny, L.U. Medical School; Ernest Lindenberg, graduate work in zoology, Indiana University; Michael Lomax, L.U. Medical School; Ruth A. McClure; Bruce McEwan, chemist, Eli Lilly and Company; Herbert L. Mason, Anaconda Aluminum Company; John C. Meade, Law School, University of Michigan; James A. Miller, teaching in Martinsville (Indiana) High School; Alan Mitten, U.S. Army; Michael Mitten and Delbert Nelson, L.U. Medical School; John F. Phillips, U.S. Air Force; William Quinn, Medical School, University of Missouri; Frank J. Rishe; Joseph Rowe, U.S. Army; Janet Scholosser, graduate work in sociology at University of Cincinnati; Karl Schoonover, L.U. Optometry School; Raymond Sparks, U.S. Air Force; David Thorne, Harry Von Tobel, and Frederick Westbrook, L.U. Medical School; Michael Tosick, L.U. Law School (Indianapolis Division); and Frederick Yarborough, Graduate work in marketing at University of Notre Dame.

B.S. degrees were awarded to: Michael Aronson; David Bailey, who is doing graduate work in the Department of Chemistry here; David Banks, graduate work at the University of California at San Diego; Steven Fike, graduate work at the University of California at Berkeley; James Gong, graduate work at University of Missouri; Susan Graper, graduate work in German at L.U.; Smith Higgins, Jr., graduate work in business at L.U.; Rita Litwak, research technician in Zoology Department, L.U.; Paul Monson, graduate work at University of California at Berkeley; James Perkins, graduate work at L.U.; Tore Ramstad, graduate work in electrical engineering at Purdue; and Maryclare Tay, graduate work at Wayne State University.

Joanna M. Dickey
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