Chemistry Resource Center

In the last issue of this gazette the decision to create a new Resource Center in Goessmann Laboratory was announced. During the summer and fall of 1987 that plan was carried out and the Center has been in use by approximately 1500 beginning chemistry students and five classes of advanced students.

Two adjacent classrooms (151-152) were furnished with new tables and equipment and were open to all chemistry students 32 hours per week. Primary uses included: viewing of video tapes of pre-lab instructions, computer checking of one laboratory unknown, taking brief weekly quizzes on the Plato computer system (all the foregoing were required), viewing of video tapes of lectures, and drop-in tutoring. Other activities included use of word processing, graphing, plotting, simulation, and drill programs in both general and advanced chemistry.

The rooms have 45 Leading Edge microcomputers (30 of which are also connected to Plato on the Cyber main frame), 10 printers, 8 VCR/TV viewing stations, a check-in area, software storage area, tables for study and tutoring use, and an area for small group presentations. Also available is a video projector which can throw the image from either a CRT or a TV onto a large projection screen.

The usage level started out higher than expected and continued to grow during the semester. The early use seemed to be primarily short span (less than 30 minutes per student per session) but gradually shifted during the semester to a higher percentage of individual sessions longer than one hour. Since no required use was longer than 30 minutes, this means that more and more students found the other (non-required) uses to be helpful.

Little software was available during the first semester of a simulation nature or designed to offer drill in selected topics, and what was available was not advertised. During the second semester this type of software is being expanded and students encouraged to use it whenever it could be of help in a course. (Specific suggestions in this regard will be welcome.)

Because the microcomputers are fully functioned, students can and do use them for other types of activities as well—preparing written papers, writing programs in BASIC or other computer language, preparing graphs or spreadsheets, searching data bases, etc. Such uses are not necessarily related to a specific chemistry course, but are available to students enrolled in any chemistry course.

If you have not yet seen the Center, we invite you to drop in during any M-T-W afternoon to sample what's available.
With the 1987 issue of the GOESSMANN GAZETTE, a program was announced whereby our Alumni could make contributions that would be of immediate benefit to activities in the Department. The Chemistry Annual Fund was established, and Alumni invited to make contributions to it. Many Alumni chose to do this, or to continue to send their contributions to the University Annual Fund but designate Chemistry as the recipient, and we were greatly encouraged by the net response. The stated goal was to establish each year a fund that could be used to provide graduate fellowships or to make significant improvements in our seminar program. The fund for 1987 has exceeded $12,000! Much can be done with this generous response, and we are deeply grateful to our Alumni for this very substantial act of confidence. We appreciate that aspect of the contributions as much as the monetary part.

Other Alumni have helped in other ways. Dr. Edward Marram, President of GEO-CENTERS (Newton Centre, MA), has been responsible for his firm making an award of a full academic-year fellowship, as is described in more detail elsewhere in this GAZETTE. Also, the endowment fund established last year by Donald and Phyllis Kuhn continues to grow through their contributions, and income will soon be available for expenditure. To all contributors, the Faculty and Staff of the Department send their heartfelt thanks, and hope that the 1988 Chemistry Annual Fund will be even more successful.

Again we enclose a contribution card and envelope with this GAZETTE, and we will look forward to having your support. If your employer has a matching gift program, this can double or even triple the award that you make. This was true of many contributions made last year, and there was a great enhancement of many gifts.

Please find the contribution card at the bottom of page 11.
Department of Chemistry plays major role in 1988 Winter Conference on Plasma Spectrochemistry

Department of Chemistry analytical chemistry faculty, postdoctoral associates, present and former students played an active part in the 1988 Winter Conference on Plasma Spectrochemistry held January 3-9, 1988 in San Diego, California.

Professors Edward Voigtman, Peter Uden, and Ramon Barnes played prominent roles in the organization and management of the Conference, while Drs. William Elliott (Ph.D. 1987), Xiaoru Wang (Ph.D. 1987), Gerhard Meyer (Ph.D. 1982), Bruce Quimby (Ph.D. 1979), and Mrs. Elzbieta Bakowska (Ph.D. candidate) presented papers or aided in operation of the meeting.

Professor Voigtman chaired a special symposium on “Plasma Atomic Fluorescence Spectroscopy” which featured a plenary lecture by Professor James D. Winefordner (University of Florida), in whose research group Professor Voigtman had worked prior to coming to the University of Massachusetts in 1986.

Professor Uden did triple duty at the Conference by organizing and chairing a special symposium on “Plasma Spectroscopic Detection in Chromatography” consisting of 16 invited and contributed papers, and a panel discussion on “Plasma Source Chromatographic Detectors: Research or Routine Tools?”, and by teaching a pre-Conference short course on “Plasma Spectroscopic Detection in Chromatography”. During the symposium Professor Uden co-authored a lecture on “Inorganic Reaction Studies by GC-MIP” with Mr. Tao Wang, a Ph.D. candidate. Dr. Quimby, who has been employed at Hewlett Packard Avondale Division since his graduation from the University, co-authored three papers describing an improved microwave cavity, discharge tube, and gas flow system for GC atomic emission detection; the characterization of this GC emission detector system arrangement and instrumentation, the application of the GC-MIP system.

Dr. Meyer, who is employed at Dow Chemical in Midland, Michigan, also chaired a special symposium on “Plasma Automation and Instrumentation” consisting of ten papers including one he presented describing an automated process stream analysis air ICP emission spectrometry. Dr. Meyer also taught two pre-Conference short courses on “On-line and Remote Instrumentation” and “Non-argon ICP’s for Spectrochemical Analysis.”

Dr. Elliott presented two papers, co-authored by Professor Barnes, describing aerosol size distribution and density characterization using absolute angular scattering measurements as well as the spatial distribution measurements of aerosol velocity and density in the three electrode DCP.

Mrs. Bakowska gave a poster presentation describing the determination of gold by ICP mass spectrometry in low concentration, limited volume samples resulting from 2000-fold pre-concentration of seawater. This work was a co-operative effort with scientists at MIT and was co-authored by Professor Barnes.

Dr. Wang and Mrs. Bakowska also assisted in the registration and operational details of the meeting which was attended by 350 scientists from around the world. Miss Sophie Bobrowski (M.S. 1984), presently operating an ICP emission spectrometer at Oak Ridge National Laboratory, also attended the meeting as did Scott Charvat (M.S. 1985), employed by Lederle Laboratories.

The Conference was sponsored by the ICP Information Newsletter, edited and published monthly for the past 13 years by Professor Barnes. Professor Barnes was the Conference chairman.

Approximately 160 papers were presented during the six-day meeting. This Winter Conference was the fifth biennial meeting held in January since 1980. Previous meeting sites included San Juan, Puerto Rico; Orlando, Florida; San Diego, California; and Kailua-Kona, Hawaii. The 1990 Winter Conference is being planned for January in Florida.

For additional information about the ICP Information Newsletter or the Winter Conference on Plasma Spectrochemistry series, please contact Professor Barnes.

ACS Meeting
TORONTO
June 7, 1988

The Chemistry Department, together with the Department of Polymer Science and Engineering, will sponsor an alumni social hour: Tuesday, June 7, 1988, 5:30-7:30 PM, Sheraton Hall in the Sheraton Centre.

Hope to see you there!
In May 1987, Walter Yando, stockroom director, was selected for recognition under the Distinguished Service Award Program. He is one of 40 who were selected from the more than 1200 employees on campus for this acknowledgement.

In October 1987, 14 employees were cited by the state to receive Commonwealth Citations for Outstanding Performance. Two of these awards went to members of the chemistry staff: Elizabeth Wesneckicwicz and Linda Warren.

Mrs. Jean Foley, long a member of the technical staff for freshman chemistry, died in February 1987.

Professor Rene M. Bernasconi will retire at the end of the Spring semester, 1988.

Professor Robert L. Rowell was appointed to a second term as the editor of the Journal Langmuir, the ACS Journal of Surfaces and Colloids. He was also invited to honorary membership in the Golden Key National Honor Society. His invitation was one of five, chosen by the students from the undergraduate faculty at the University.

Professor Bret Jackson has received a grant from the Department of Energy, Basic Energy Sciences Division, to explore the Dissociation Dynamics of Small Molecules on Metal Surfaces: Finite Temperature Theory.

Professor Michael Maroney received a Young Investigators Award (F.I.R.S.T.) from the N.I.H., to span five years.

Professor John W. George retired in July 1987.

Professor Ronald D. Archer spent most of his sabbatical leave this past spring in the radiation and photochemical institute at the University of Vienna. He also presented lectures on soluble and useful metal coordination polymers and/or photosensitive coordination compounds and polymers at Universities and Academies of Science in Austria, Hungary, Poland, East Germany, and Sweden and at international conferences in West Germany, Colorado, and Czechoslovakia. He even managed to return to UMass for a few days to hold research discussions with his six graduate students, one undergraduate, and one visiting professor.

During the summer he served as Chief Reader for the Advanced Placement chemistry program as well as resuming the reigns of the American Chemical Society Committee on Education. He also served as program chair for the August 1987 New England Association of Chemistry Teachers' conference on "Designing Molecules: Inorganics for High-Tech and Biotech," at which he presented papers on metal coordination polymers and on the essential roles of metals to our existence and to medical treatment.

The "Designing Molecules" conference also featured one of our alumni, Dr. Kenrick Lewis, who is involved with silanes and organosilicon compounds in high technology at Union Carbide. Professor O.T. Zajcek spoke on water purity and Adjunct Professor Joan Dieters (coauthor: Professor Robert R. Holmes) on theoretically designing inorganic species.
Professor Everett Turner also provided some marvelous demonstrations to the 90 teachers in attendance at the conference. Incidentally, one of our current 5-College Ph.D. students, Julie Smist, who also teaches at Springfield College, was in charge of the local arrangements, and Professor W.E. McEwen's wife Cathryn was in charge of day trips in the area. □

Professor Robert R. Holmes spent the year at UCSD in La Jolla, making use of his sabbatical during the Spring semester, and part of his Research Fellowship Award during the Fall semester. He conducted theoretical calculations in collaboration with his wife, Joan, and Professor Joan Dieters, Chairman of the Chemistry Department at Vassar College, on comparative nucleophilic displacement reactions of silicon and phosphorus compounds at the NSF sponsored Supercomputer Center located there. While in San Diego, his daughter Mary Anne, who resides there, introduced him to his new role as grandparent when Kelsey was born last March. He assumed an additional post as Editor-in-Chief of Phosphorus and Sulfur, effective July 1st. In October, he was one of nine academic participants invited to speak at a conference on "Key Problems in Silicon Chemistry," held at the Air Force Academy in Colorado Springs. Dr. Holmes was also an expert witness on organotin chemistry at the trial of Thiokol vs. Argus/Witco held at the Federal Courthouse in New Orleans last March. As Chair- man of the Fifth International Symposium on Inorganic Ring Systems, to be held on campus August 8-12, 1988, he and Joan will make final arrangements for the meeting and its associated social program. □

News of Peter Lilly's Research Group

Our research group now comprises eight Ph.D. candidates working on projects which range from phase separated block copolymers with nematogenic hard blocks, to discotic liquid crystals and nitramine-stabilized carbanions.

We are now enjoying the use of our new instrument/conference room shared with Professor Paul Lahti's research group. This is the former office/laboratory of Mrs. Elizabeth Wesnecawicz who has moved to the third floor of the tower where organic teaching laboratories are now concentrated. The room contains our infrared spectrophotometer and liquid chromatograph as well as Lahti's UV/visible spectrophotometer. Paul Lahti has put together a computer workstation complete with hard disk, printer and plotter. Using the newly-installed Ethernet we can communicate with the University Cyber system and the engineering VAX cluster. While a phone line is still necessary to access the Chemistry Department Celebrity computer in Goessmann, we can now do rapid practical molecular mechanics calculations as well as quantum mechanics-based calculations routinely as well as search Chemical Abstracts from our own laboratory.

Our new operations director, Dr. Paul Drummond had a lot to do with expediting the renovations to the room which includes among its amenities a small refrigerator and a microwave oven. Things have truly changed from the old days! □
Professor Ragel received a Research Corporation ‘Research Opportunities Award,’ matched by University funds, which has been used to purchase a superconducting solids NMR work of his group. The magnet provides a 5 Tesla field, and is specially designed to provide a zero-field region 12 inches up the axis of the magnet bore from the high-field region. The cryostat provides controlled temperatures in the range 2 K to 300 K over the entire volume of the experimental working space. This magnet/cryostat system will be used with present pulsed NMR apparatus in his laboratory to study species on catalyst support surfaces. Professor Ragel was also a participant in a successful group proposal to the National Science Foundation to upgrade the Celcinity minicomputer facility. The upgraded facility will be used by Professor Ragel and his group in the calculation of molecular properties by ab initio theoretical methods.

Professor Richard S. Stein spent a week in France in November 1987 at the invitation of IBM at their European Polymer Workshop near Strasbourg. He spent 3 weeks at their San Jose, CA facility during January 1988 giving a series of lectures. He was an invited lecturer at workshops on neutron scattering during October 1987 at Argonne National Laboratory and in November at Los Alamos National Laboratory. Professor Stein is just completing a video course in “Electro-Optical Properties of Polymers”.

Professor Stein has been designated to receive an Award for Distinguished Service in the Advancement of Polymer Science from the Society of Polymer Science, Japan, to be presented at their annual meeting May 25-27, 1988.

Professor Rhodes attended the 1987 World Congress on Polyurethanes in Aachen, West Germany, Sept. 29-Oct. 2, 1987 at which time she received an award from Fachverband Schaumkunstoffe e.V. for her work in developing modern methods of optical microscopy for the characterization of foams.

Professor Pires Valente from the State University of Campinas (Unicamp), Sao Paulo in Brazil has been a Visiting Professor in Analytical Chemistry from June 1987 for a year. His visit extends the continuing interaction between our departments which has been in place since 1982. His interests lie in environmental analysis and he is involved in the program of interfaced chromatography and atomic spectroscopic detection in our group.

You Jinmin, who is a faculty member at Wuhan University in the People’s Republic of China, has been a visiting scientist in our group since August 1986, working in the area of trace measurements of chlorinated organic compounds in drinking water.
Visiting Faculty

Clifford Meints is on leave from Simpson College, Iowa, for the academic year. He has been directing the overall operations of the Resource Center and has been invaluable in getting the operation going smoothly for the first year in which all freshman courses have been using the center.

Peter Stackpole, on leave from Lynnfield High School for the academic year, is teaching in the freshman chemistry program. He is involved in all areas of the division, and especially in the computer operations in the Resource Center, to which he brings some considerable expertise.

Undergraduates

Shahrzad “Sharzy” Zarghamene received an award from the Connecticut Valley Section of the ACS.

Herbert W. Ulmer received an award from the American Institute of Chemists.

Nanae Iyoda received the Merck Index Award.

Ashraf Ed Khan received the Richard W. Fessenden Award. The award was established by the Massachusetts Agricultural College Chemistry Class of 1908, as well as by other students and colleagues of the late Richard W. Fessenden, Professor of Chemistry.

The CRC Press Freshman Chemistry Awards, sponsored in part by the CRC press and the University of Massachusetts Chemistry Department, were received by Erik W. Andrews, Pamela R. Haddad and Neil F. Lacey.

Faculty News

The General Assembly of the International Union of Pure and Applied Chemistry was held in Boston in August 1987. In the Analytical Division, an important development was the restructuring of the Commission on Reactions and Reagents to a new title of Analytical Reactions, Reagents and Separations. Professor Uden, who was elected a Titular member of this commission, will chair a Working Party over the next four years to examine aspects of IUPAC involvement in defining and reviewing matters relating to chromatography and other separation methods.

New Faculty

Robert Weis has joined the Department as Assistant Professor. His interests lie in the biological properties of membrane components and in the physical chemistry of these components. His investigative techniques involve those of physical chemistry, biophysics, biochemistry, and molecular biology.

Professor Weis received his Ph.D. from Stanford University in 1984 and was a Postdoctoral Fellow in the Department of Biochemistry at the University of California, Berkeley, prior to coming to the University of Massachusetts at Amherst.

Graduate Student Notes

Graduate student Jodi Vecchiarrelli was selected for a student award by the New England Section of the Society for Applied Spectroscopy. The award was made at an evening of student presentations in March 1988 at the Baird Corporation in Bedford, Massachusetts.

Michael T. Azure, a graduate student in Inorganic Chemistry, was selected as a recipient of a 1986-1987 University Distinguished Teaching Award.

Grad Student continued on page 8
The Department Main Office has undergone considerable upgrading recently. All of the secretaries now have word processing units connected to laser printers. ChemDraw, a program that allows for the printing of chemical structures and drawing and retaining a library of structures is available from all the word processing stations. The duplicating services have been updated including a new Canon copier, duplicator and mimeograph machine. The old conference room has been converted to an office for Carly Zimnoski, department bookkeeper and Chris Gagne, secretary. A temporary conference room on the first floor of the Lederle Graduate Research Tower is being used pending completion of a new conference room on the second floor of the tower.

The Celerity computer has been upgraded via an NSF Equipment Grant awarded to Bret Jackson, Paul Lahti, Paul Cade and John Ragle (augmented with matching funds from the Graduate School). The memory has been expanded substantially, two new 700 megabyte drives have been added, and the main processor has been upgraded.

The Electronics Shop has expanded and moved to new quarters on the second floor of the tower (GRC). As more new equipment has been acquired by the department, greater demands have been placed on this facility. Ultimately the present staff of two (Dan Keedy and Mike Conboy) will be expanded to four.

Plans are underway to move the Machine Shop from the basement of old Goessmann to the basement of the Lederle Graduate Research Center. This new location will see significant modernization with the addition of new equipment.

### Graduate Student Notes
continued from page 7
In March 1988, the Department served as host for the Connecticut Valley Section of the ACS, which sponsored the Western Massachusetts Competition to select high school students to represent the United States in the XX International Chemistry Olympiad, to be held in July in Helsinki, Finland.

Ms. Kimberly A. Forbes has had a Merck Predoctoral Fellowship renewed for the academic year. She is continuing her research in the area of Interfacing of Chromatography and Atomic Emission Spectroscopy for Specific Element Detection with Professors Ramon Barnes and Peter Uden.
The Graduate Chemists’ Association (GCA) is still a busy group accomplishing all sorts of great things for their fellow graduate students. Most recently, the GCA has set up an account with Chemical Abstracts On-Line service to be used by students, post-docs, and faculty in the Chemistry Department. Previously, graduate students had only limited access to such a luxury. Use of the service is directed by a committee elected by graduate students in the GCA elections. The committee members know how to perform a search of CA quickly and efficiently, and it should be an educational experience for the student, as well. The committee has helped many graduate students already, and will certainly help many more — especially once people realize how much time it can save them.

The GCA also received favorable response to their request of instituting a new policy to assist graduate students in covering their expenses to attend a major scientific meeting at which they are presenting a paper. Dr. Quin is very much in favor of this policy, and many graduate students have appreciated the department’s assistance already.

All of the various committees of the GCA are strongly involved in keeping their fellow students aware of important issues at faculty meetings, student senate, graduate studies, grievance, and safety committee meetings. And, of course, to help brighten the days and nights around Amherst, the social committee is always busy planning wine and cheese socials, International Food Festivals, and the always popular picnics and Christmas Party. To help cover the cost of the fun, the GCA raised money by a bake sale which was a great success. Baked goods have also been a welcome addition to the Distinguished Lecturer Series. With the help of contributions from the Chemistry Alumni, the GCA has been able to serve refreshments at each lecture.

The GCA keeps us all informed of these events by posting announcements in the newly installed glass case. This case has also been a great spot for pictures to help us all recognize new faces. The GCA is certainly one association we wouldn’t want to be without.

The team representing our Chemistry Department in the First Annual New England Chemistry Department Invitation Softball Tournament has won the championship. A trophy has been awarded to the Department and was placed on display in the Main Office for a few days, before being placed in the trophy case in Goessmann. The following persons played on our team:

Michael Azure, Adrian White, Gerry Colpas, Eric Kolb, Bill Ward, Tom Sassi, Evan Chen, Dan Mallin, Stacey Marden, Linda Baughman, Jim Katsaros (Chem. Eng.), Rick Norton (PS&E), Hilary Kausage (Psychology), Shel McGuire, Dr. Michael Maroney.

In addition, help or support in various forms was supplied by the following:

Linda Brzuskiewicz, Ven Ochaya, Sarah Burton, Mark Kearley, Dave Modarelli, Abbas Razavi.

UMass Inorganic Ph.D. Donald Dollberg manages a research group solving problems and methods development of NIOSH industrial hygiene unit. He also is coordinator of analytical services for NIOSH and is developing a XENIX laboratory management system in between the other jobs.

Dr. Edward Grandbois, who taught in our general chemistry program for two years, is back in Massachusetts doing research at Polaroid while his wife Linda works at Prime Computer.

Postdoctoral Vahe Marganian, who is a Professor of Chemistry at Bridgewater State College has a daughter who is currently a junior chemistry major at UMass.

Postdoctoral David Whitcomb, an Amherst native, reports that he has just won a “Circle of Technical Excellence Award” at 3M—one of 18 from the 5000 technical people at 3M.

UMass Inorganic Ph.D. Carl J. (Joe) Weber is now with Raychem in Menlo Park, CA, where he is developing new heat shrinkable materials. He and Judith are now the proud parents of two children.

UMass Inorganic Ph.D. Won-Suk Kwak with PPG in Dayton, Ohio, developed the UV blocker which is currently being used in the new neutral density sunglasses. He and his wife now have three children.

UMass Inorganic Ph.D. Marvin Illingsworth is now on the faculty at Rochester Institute of Technology and is making new coordination polymers.

UMass Physical Ph.D. Annabel Lee is now on the staff at the U.S. Patent Office in Washington.
News of Alumni

Francis Fitzpatrick—Ph.D. Analytical Chemistry with Professor Siggia (1973) has recently joined the faculty of the Department of Pharmacology of the University of Colorado School of Medicine in Denver as Associate Professor.

Raphael D’Alonzo—Ph.D. Analytical Chemistry with Professor Siggia (1977) is Associate Director for Product Development at Norwich Eaton Pharmaceuticals Company in Norwich, New York. He is a regular visitor to UMass in his capacity of recruiting for the Procter and Gamble organization, the parent company of Norwich Eaton.

Robert Lloyd—Ph.D. Analytical Chemistry with Professor Uden (1977) has recently joined Pfizer in Groton, Connecticut. He joins a number of Analytical Chemistry graduates at Groton, including George Forcier, Bill Zeronza, Jim Curley and Cheryl Kirkman.

Michael Delaney—Ph.D. Analytical Chemistry with Professor Uden (1979) is Manager of Chemometrics for Cambridge Analytical Associates of Boston, Massachusetts.

Raymond Crowley—Ph.D. Analytical Chemistry with Professor Uden (1980) has joined Millipore, Waters Chromatography Division in Milford, Massachusetts as Manager of Analytical Chemistry. He and his wife Mary Beth (Merritt), Ph.D. Analytical Chemistry, 1981 with Professor Siggia, have a daughter, Elizabeth Anne, born in August 1987.

David Mazzo—Ph.D. Analytical Chemistry with Professor Uden (1983) has joined Baxter Healthcare (Travenol) of Chicago as Analytical Laboratory Manager. He and his wife find life very busy with their three sons, with twins born this year.

Michael DeRosa—M.S. with Professor Uden (1987) is also with Baxter Healthcare.

Mark Italia—Ph.D. Analytical Chemistry with Professor Uden (1987) has taken a position with the Union Carbide Corporation in Bound Brook, New Jersey, in the group led by Imogene (Bigley) Treble (Ph.D. 1978).

Evan Chen Jr.—M.S. Analytical Chemistry with Professor Uden (1988) has joined the Texaco Corporation in Beacon, New York.

Holly Perpall—Ph.D. Analytical Chemistry with Professor Uden (1986) and John Morgan, Ph.D. with Professor Tan (1987) are both with Merck, Sharp and Dohme Research Labs in Rahway, New Jersey.

Kiichiro Sasaguri—Ph.D. ca. 1966 with Dick Stein, has joined the research division of the W.R. Grace Company as Director of the Japan Research Center. Prior to joining Grace, he was director of the Asahi Chemical Construction Materials Company. Dr. Sasaguri has made an unusual move in accepting this new position going from a Japanese to an American company and representing it in Japan.

Charles (Jerry) Thomann—Ph.D. 1966, has left the University of Scranton (PA) to join Stephen F. Austin University in Nacogdoches, Texas as Chemistry Department Chairman.

William G. Elliot—Ph.D. 1987, Analytical Chemistry, recently completed his first year as a volunteer member of the Citizens Advisory Committee for the Massachusetts Water Resources Authority, the agency undertaking the cleanup of Boston Harbor.

Two students in Peter Lillya’s research group completed Ph.D. degrees this year: Jin-Long Hong—“Synthesis and Characterization of Block Co-Polymers”, and Chi-Fung Chu—“Synthesis and Structure-Property Relationships of Block Co-Polymers”. Jin-Long is now a post-doctoral fellow at the new center for liquid crystals at the University of Connecticut and Chi-Fung is seeking a position in Taiwan.

Bob Austin (Ph.D. 1968) reports that he has transferred to a new division of Meade Corporation, Meade Imaging, where he will be “working in the pilot plant again, trying to get another new product to market”. The new Cycolor process Bob will be working on was featured in Chemical and Engineering News, Jan. 11, 1986, page 23. His transfer will require Bob and Marcia (M.S. 1968) to move from Chillicothe to the Dayton, Ohio area.

Kevin Moriarty (Ph.D. 1984) is finishing a post-doctoral position with Leo Paquette at Ohio State and will join the group of Barry Trost at the University of Wisconsin as a post-doctoral fellow in January 1988.
Marcia Muldoon Austin (M.S. 1968) is computer laboratory coordinator at Ohio State University-Chillicothe. □

Anne Wei-Fang Su is a senior engineer at the Westinghouse R&D Center in Pittsburgh, PA where she is working on polymers and composites. □

Thomas Sarubbi (Ph.D. 1986) spent 3 weeks in Kyoto, Japan working a joint venture involving Olin-Hunt Chemicals, his home firm. □

Richard Heath (B.S. 1986) is a Ph.D. candidate at Yale University doing research with Jerome Berson. □

Robert Graf (Ph.D. 1973) provides technical and marketing support for a line of high-powered IBM microcomputers working out of Washington, D.C. □


Last year Arthur Kluge (Ph.D. 1969) returned to present a seminar in which he described case histories in which computer modeling was used to help design drugs. Art is now director of organic chemistry at Syntex in Palo Alto, CA. □

Elaine Magyar (post-doctoral 1974-76) teaches at Rhode Island College, Providence, RI, along with her husband, James, who is currently chair of physical sciences. Elaine and Jim are developing a special introduction to chemistry for adult learners and enjoying the luxury of a new HPLC instrument obtained on an NSF grant. Their third son, Paul, was born in April 1987. □

Douglas Brown (M.S. 1978) is marketing manager for Ciba-Geigy Plastics Department. □

M. Lawrence Oliverio (B.S. early '70s) is an attorney specializing in patent law with the Boston firm of Wolf, Greenfield, and Sacks. □

Donald Kuhn (Ph.D. 1969) is a group leader at the research laboratory of Hammermill (now International) Paper in Erie, PA. along with his wife, Phyllis, who manages a combined microbiology laboratory for two hospitals in Erie. They own an 80-acre farm and are much involved with improvement of its agricultural potential and deer hunting. (He has his buck for this winter.)

Alexander M. Cruickshank (Ph.D. 1955) has been honored by an endowed Lectureship, established in 1987 with the University of Rhode Island Foundation by the Gordon Research Conferences to recognize his nearly forty years of service as Director of the Conferences. □

The Chemistry Annual Fund
University of Massachusetts at Amherst, Department of Chemistry

The Annual Fund is to be used for the support of the Department Seminar Program and for graduate fellowships.

Enclosed is my check for $________ made payable to the University of Massachusetts to be credited to the Department of Chemistry Annual Fund.

or

I wish to pledge $________ to the Chemistry Annual Fund, and will make payments in _______ months or as follows: ____________

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