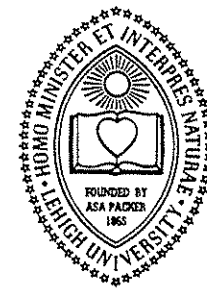


CHEM NEWS

NEWSLETTER #23 DEPARTMENT OF CHEMISTRY
LEHIGH UNIVERSITY FEBRUARY 1998



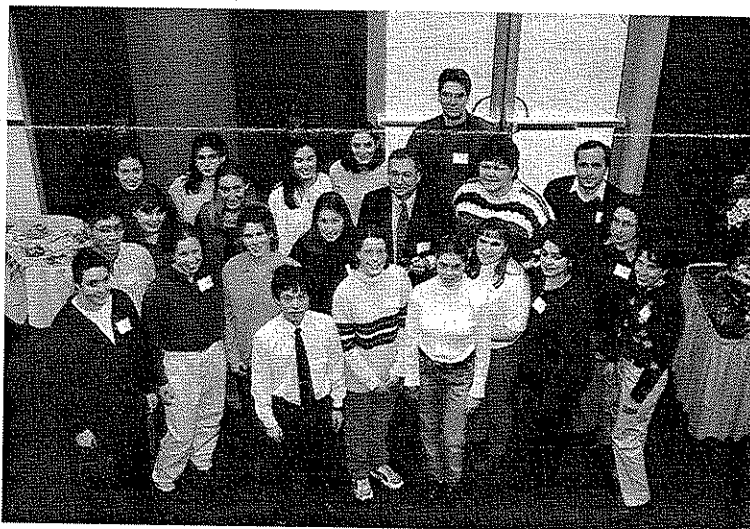
NEWS OF THE FACULTY

When the editor of Bioconjugate Chemistry informed Professor Steven L. Regen that his article on "Umbrella-Spermine Conjugates" had been chosen for the journal's cover illustration, Steve had a picture ready to go. see Bioconjugate Chemistry, 8 (6), 1997. Steve also proved the power of real research in motivating organic lab students when he set out "to see if I could design a research experiment that could be successfully carried out at the undergraduate level." The fruits of Steve's labors will appear in an article with 84 students in the March issue of the Chemistry of Materials. Each of the 84 enrollees in organic laboratory contributed to measurements which constituted the experimental data in the publication. A celebratory party was staged recently by the Department for Steve and his undergraduate research collaborators.

Richard G. Herman, Executive Director and Principal Research Scientist at the Zettlemoyer Center for Surface Studies, organized a symposium on Environmental Catalysis for the 5th Chemical Congress of North America which was held in November in Cancun, Mexico. Among the 28 symposia speakers were Professor Kamil Klier and two Lehigh alumni, Jose G. Santiesteban (PhD '89) and John D. Agogliati (BS '94).

Serving as Guest Lecturer at the Corning (NY) ACS Local Section's December meeting was Associate Professor Natalie Foster.

Professor John W. Larsen will serve as plenary lecturer at the 1998 International Symposium on Advanced Energy Technology in Sapporo, Japan. John will follow this meeting with lectures and visits to laboratories in Sendai and Osaka. From Asia to Europe; April will find Professor Larsen lecturing at the installation of Dr. Rafael Kandiyoti as Professor at Imperial College, London.



Professor Regen and some of his organic laboratory students celebrate publication of their article. - picture by Joe Marcus

NEWS OF THE ALUMNI

John Stuart (PhD '93) has relocated from Massachusetts to Kentucky having departed Cambridge Isotopes for a position as Quality Assurance Manager with Advanced Chemical Technologies in Louisville. Seeking warmer climates, John?

David Pursell (MS '87) has just been selected for promotion to the rank of Lieutenant Colonel in the U. S. Army. Dave is currently on duty as a pre-doctoral graduate student in Analytical Chemistry at the University of Pennsylvania.

"I didn't want to wait around and become a 'Novartian' so I left Ciba-Geigy just before the name change," writes James Chovan (PhD '77). Jim is now Senior Manager of Drug Metabolism at Cephalon in West Chester (PA) guiding tissue fraction metabolism projects.

Returning to campus for the first time in three decades was Dr. Marcelita C. Magno (MS '61), a physical chemistry graduate who did her thesis in the former Printing Ink Research Institute under the late Professor Zettlemoyer. Marcelita is now the Chair of Chemistry Education at the University of the Philippines and is responsible for the nationwide curricula in high school chemistry teacher training.

Wake up and smell the coffee! Or, at least learn what's in the aroma by listening to Dr. Thomas Parliment (BA '61) lecture on "The Chemistry of Coffee Roasting." Tom, Research Principal Scientist at Kraft Foods, spoke to the Rockland (NY) Chemical Society on that topic on 22 January.

Matt Sidovar (BS '95) is a second-year doctoral student in Pharmacology at UNC-Chapel Hill studying Raf kinase.

Another distant alumnus recently returned for a visit. Dr. Ira Brinn (MS '65), now Professor of Chemistry at the Federal University of Rio de Janeiro (Brazil), shared reminiscences with his thesis advisor, Professor Emeritus James Sturm. Ira taught in Wheeling, WV, earned a doctorate at Pitt, and did postdoctoral study at Columbia before joining the faculty of Brazil's Instituto Quimica where he studies charge transfer dynamics through fluorescence efficiency and lifetime measurements.

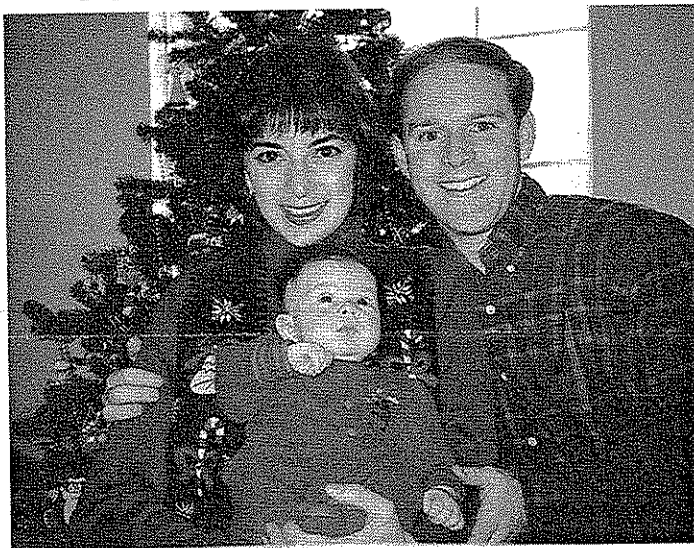
Having just finished her PhD in Biochemistry at Rutgers, Jennifer Nasser (MS '79) is off for life in the Big Apple. Jenny commenced a postdoctoral position at the St. Luke's Roosevelt Hospital Obesity Research Center (NYC) where she's in charge of a drug trial and a new diet study for weight loss. Give us the insider tips, Jenny!

The new editor of the ACS magazine Today's Chemist at Work is Dr. James F. Ryan III (BS '66). After Lehigh, Jim completed his PhD at the University of Virginia and has worked as a chemist for Dupont, Gulf South Research Institute, and EPA before joining the ACS Publications staff in Washington, DC. Jim and his family are loyal Lehigh chemists with his father, James F. II (BS '40), and his son Jason Ryan (BS '94). Jason is currently in medical school at the University of Connecticut.

It's fly-like-an-eagle if you happen to know Nancy McCurry (MS '93) who just obtained her glider pilot's certificate after many long months of training. Nancy is a chemist at Lucent Technologies in Allentown.

Peter Kim (BS '91), MD from the Medical College of Pennsylvania, has successfully completed his Board examination in Internal Medicine. Peter is presently a PhD student at Harvard.

GET TO KNOW A SATELLITE STUDENT



From its beginning in 1992 the satellite Distance Education program has enrolled students in mid-West: in Colorado, in Minnesota, and in Texas. John Ashbaugh, Polypropylene Specialist at Exxon in Houston, Texas, is one of our more "distant" graduate students. John began the M.S. while working in the Polymer R&D Division of Exxon Chemical in Linden (NJ) and continued after a corporate transfer to the company's Houston site. John and his wife Christine celebrated son Matthew's (born 27 October) first Christmas in their Texas home. Speaking about the LESN M.S. John said, "that program has increased my knowledge and skills in chemistry and enhanced my career growth. I've just been moved into a position with additional responsibilities." John is on the home stretch and is currently finishing his M.S. thesis with Lehigh's Professor Natalie Foster.

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If you're ever driving in West Africa and need a lube and an oil change, insist on Texaco! Assad Nassry (MS '72) was just promoted to Senior Technologist at Texaco Research Center, Beacon (NY), and put in charge of development of special passenger car engine oils for ambient conditions in Texaco's Latin American and West African markets. Assad writes that he's enjoying the unique assignment which he describes as "very demanding, very interesting." [Do they let you test on-location, Assad?]

Jeffrey E. LaGrassa (BS '94) has transferred from the Industrial Chemical Department to the Polymer Chemistry Technology Division of Air Products and Chemicals (APCI). Jeff adds, "That research internship with Dr. Benbow definitely paid off and I'm really enjoying working for Air Products."

The November elections swept a number of new politicians into office including Bruce Schaeffer (BS '68) who was elected to the School Board in the Lower Pottsgrove School District. Bruce is a Computer Laboratory Automation Specialist at SmithKline Beecham in King-of-Prussia.

Marie Johansson (PhD '96) has taken a position as Research Scientist at the Morristown (NJ) location of Colgate Palmolive Company. Marie was formerly a Research Scientist with STC in Bethlehem.

We've got a crop of lil'Lehighites! Chantelle and John Haggerty (MS's '95) celebrated the birth of their 5 pound, 8 oz., daughter, Devon Rayne Haggerty, on October 1st. Eric Akyea (PhD '93) and his wife Brigett announced the birth of Victoria. Eric is Senior Research Chemist at Pressure Chemical Corporation in Pittsburgh, PA. John Scassellati (DA '91) and his wife Fides welcomed daughter Rebecca Antoinette. John, who lives in Greensburg (PA), is an educational consultant in OSHA, DOT, and EPA technical training.

Today many chemists retire only to accept reemployment at some other position. Herman E. Collier, Jr (PhD '55, LLD '71) has retired twice. Herman recently was named Interim President at Lees-McRae College in

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REMEMBRANCES OF THE FACULTY



Judson Gray Small (1882-1978) was one of Lehigh's first surface scientists, an expert in the drying of paint films, and an active researcher in the molecular causes for opalescence in glass. Jud came to Lehigh from Altoona (PA) and was a student when the Department switched from granting its unique degree, the AC or Analytical Chemist, to the BS. His class (1906) was one of the first to receive the new more general BS albeit with a strong analytical focus. Jud left Lehigh to work as an analyst with New Jersey Zinc in Palmerton (PA) and with National Lead Corporation in Brooklyn (NY) where he learned of the problems caused by slow-drying paints. After WW1 he returned to Lehigh for graduate work, obtained an MS in 1921 and joined the faculty as an Instructor.

He retired in 1949 with the title Associate Professor of Organic Research and devoted his next 29 years to his personal research in his Chandler Hall laboratory in cross-linking agents for paint oils. Several of his discoveries were used in paint formulations by National Lead. Jud was the faculty advisor to the Lehigh fraternity ATO which presented him an award upon retirement for his years of service. Serving on the Board of the Moravian Preparatory School and the Board of Elders of the Central Moravian Church, Jud was a well-known figure around town. He is fondly remembered by many generations of alumni as a popular laboratory instructor, a painstaking researcher, and a friendly colleague. He died in April 1978 at the age of 95.

Barner Elk (NC) to lead the college while the institution searches for a new president. From his Lehigh doctorate to his retirement (1955-1986) Herman taught chemistry and rose to the Presidency (1969-1986) of Moravian College. He emerged from retirement to serve as Interim President of Salem College in Winston-Salem (NC). After that retirement from Salem he was called to his present post in 1997.

Out of 891 ACS Student Affiliate chapters, the Wilkes University ACS SA group received one of 47 commendations given by ACS National for the number and variety of programs conducted in the 1996-97 academic year. The chapter's faculty adviser during the award-winning year was Terese Wignot (PhD '89).

Ed McCafferty (PhD '68) recently completed a one-year sabbatical as Visiting Scientist in the Department of Chemistry and the Center for Adhesive and Sealant Science at Virginia Polytechnic Institute and State University (VPI-SU), where he worked with Professor James P. Wightman (PhD '60). Ed and Jim recently published a paper on their collaboration in the Journal of Colloid and Interface Science and dedicated the publication to the memory of their mentor, the late Professor Albert C. Zettlemoyer, who was the long-time editor of the journal. Ed is a group leader at the Naval Research Laboratory in Washington, DC, and was recently elected a Fellow of the Electrochemical Society. Jim is Alumni Distinguished Professor of Chemistry at VPI-SU. They are presenting another joint paper before the February meeting of the Adhesion Society in Savannah (GA).

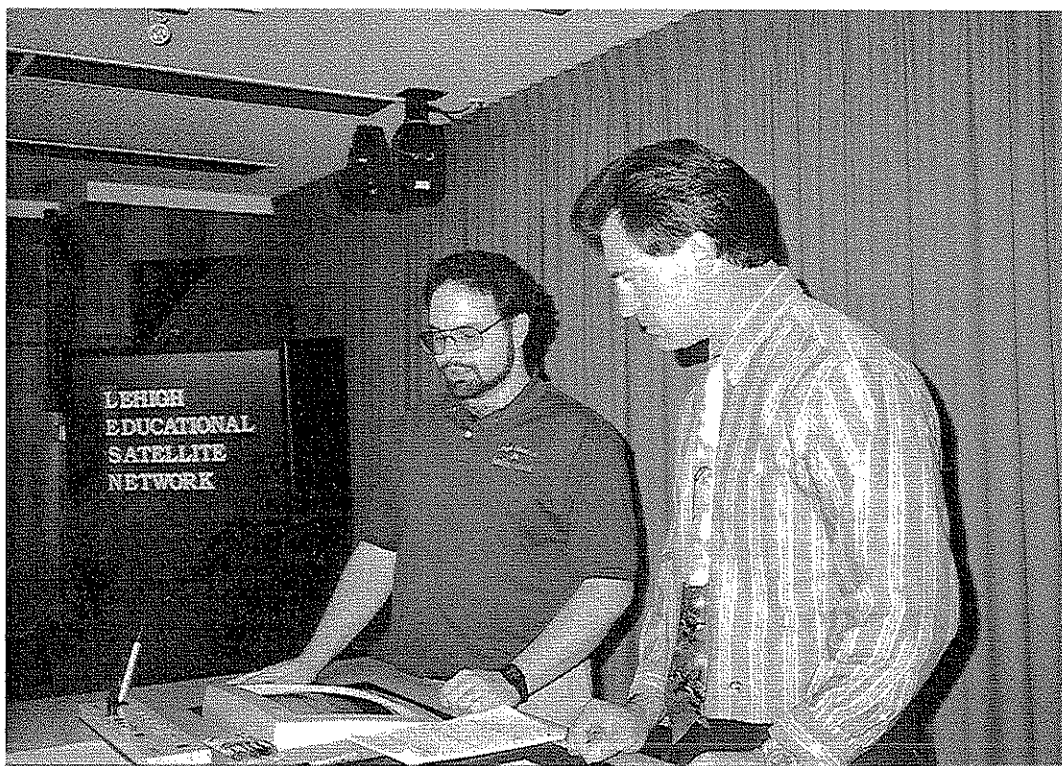
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DEPARTMENT ANNOUNCES SATELLITE SHORT COURSE

The ninth satellite short course, "LC/Tandem Mass Spectrometry for Metabolite Analysis in Pharmaceutical Development" will be offered as five 2-hour lecture components on June 8, 10, 12, 15, and 17. The course will be hosted by Dr. Cecilia Basic of Villanova University, Visiting Professor of Analytical Chemistry at Lehigh, and will include lectures by Dr. Basic and by LC/MS experts from several pharmaceutical firms. To register for on-campus, satellite or video tape versions of the course please telephone Rosa Whitaker in Distance Learning at (610) 758-3935.

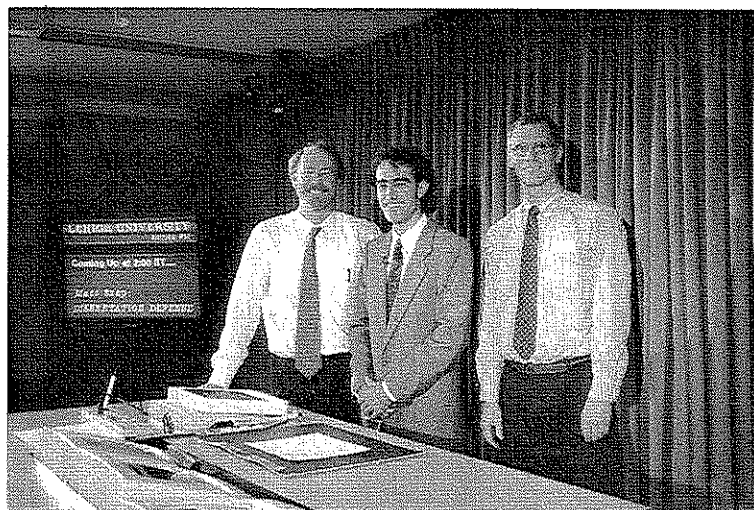
DEPARTMENT PRESENTS SATELLITE SHORT COURSE ON NUCLEIC ACID PROBES

John Santamaria, Satellite Technician, teaches Dr. James Snider of Applied Biosystems, how to use the electronic podium for his presentation in a November 1997 short course. Nucleic Acid Probes, the Department's eighth in a series of industrially taught interactive satellite short courses, was arranged by alumna Dr. Emily Winn-Deen (BS '74), Director of Diagnostic R&D at Oncor, Inc, Gaithersburg, MD. Additional teachers were Clinical Chemists Larry J. Kricka and Peter Wilding from the Pathology Laboratory, University of Pennsylvania School of Medicine.



SZAP DOES FIRST TELEVISED GRADUATE-COOP THESIS DEFENSE

Matthew Szap defended his doctoral dissertation before his committee and before Lehigh's video cameras on October 2nd. Matt, who conducted most of his research as a graduate co-op at Merck (West Point, PA), shared his final presentation not only with colleagues back at Merck but also with a number of other corporate down-link sites in the LESN system. Matt, shown here flanked by his Merck mentors Stan Barnett (left) and Dave Heimbrook, was the doctoral student of Professor Natalie Foster.



Please talk to us ☎ ☐ ▶

We're your Alma Mater. We'd love to know what you're doing! Our postal address and phone number are on this newsletter. Our FAX is (610) 758-6536, our e-mail is KJSO@Lehigh.edu, our Departmental Web Site is <http://www.Lehigh.edu/~inche/inche.html>. If you'd like to sample the lecture notes for the courses our faculty are broadcasting to industry on the satellite just click on <http://www.LESN.Lehigh.edu>. Keep in touch!

PLEASE HELP THE PRESENT STUDENT GENERATION

Ever since Lehigh enrolled its first chemistry student 132-years ago the Department's most pressing need has been for student support: tuition grants, scholarships, and fellowships. Would you like to support Chemistry at Lehigh? Please consider a gift to:

The Unrestricted Department Development Fund	\$ _____
The Edward D. Amstutz Scholar Fund	\$ _____
Althouse Fellowship	\$ _____
The Frederick M. Fowkes Scholar Fund	\$ _____
Summer Student Research Program	\$ _____
Alumni Newsletter Printing Fund	\$ _____
Other: (specify purpose) _____	\$ _____

Checks should be made payable to Lehigh University, indicate the fund to which you wish to contribute, and forward your check to: the Department of Chemistry, Lehigh University, 6 East Packer Ave., Bethlehem, PA. 18015. (Please check if your company matches educational gifts.)

Want to know about the chemistry of crayons, just ask Alton F. Rauch (BS '79), Research Chemist at Binney and Smith (Easton). Al's current science deals with improving the wax base of his company's major product, Crayola™.

With a comment, "You guys at Lehigh write too easy exams, especially for an alumnus of the Class of 1941," Charles Carter (BS '41), wins the T-shirt prize for submitting a fully correct identification of all the 1941 chemistry faculty on the photo shown in the last Alumni Newsletter. Chuck even noticed that Professor E. R. Theis was missing from the group shot. For those of you who can dig out your September 1997 issue, Carter's identifications are: (top row l to r) J. H. Steele, Robert D. Billinger, Judson G. Smull, Hilton A. Smith, Edward D. Amstutz, W. A. McGrath, C. H. Reichardt, H. S. Levenson, J. C. Mertz, Earl J. Serfass, and Frank J. Fornoff. (second row l to r) H. V. Anderson, W. W. Ewing, Alpha A. Diefenderfer, Harvey A. Neville, Henry M. Ullmann, G. C. Beck, and C. W. Simmons. (on the floor, l to r) E. Heins, P. T. W. Strub, R. F. Schultz, Thomas H. Hazlehurst.

Jack G. Steigelfest (BS '81) informs us he is a partner in the Hartford (CT) law firm of Howard, Kohn, Sprague and FitzGerald (e-mail: jgs@HKSFlaw.com). Jack obtained his JD from UConn and maintains a civil litigation practice, including the defense of toxic tort, environmental pollution, product liability actions, and related insurance coverage issues. Jack, his wife Dawn, and their two children live in Glastonbury, CT.

The Department lost an outstanding young alumnus with the death of Kenton M. Lerch (BS '97) on 1 February. Kenton was active in the ACS, the marching band, and Delta Sigma Phi fraternity during his years at Lehigh. He completed a summer internship at Air Products and had been accepted at Florida State for graduate study.

Shang Li (PhD '97) joined the research staff of STC Technology (Bethlehem, PA) as a Postdoctoral Research Scientist.

PIONEERING IN CHEMICAL EDUCATION BY SATELLITE



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