THE GOESSMANN GAZETTE

A publication of the Chemistry Department, University of Massachusetts at Amherst *Summer, 1994*

PETER C. UDEN RECEIVES TWO MAJOR AWARDS IN ANALYTICAL CHEMISTRY

Professor Peter C. Uden, was presented with the prestigious *Benedetti-Pichler Memorial Award* by the American Microchemical Society during a symposium in his honor at the annual meeting of the Eastern Analytical Symposium in Somerset, New Jersey, November 15-18, 1993. This award is given annually and was established in 1966 to recognize outstanding achievements in microanalytical chemistry.

Professor Uden also received the *Analytical Reactions and Analytical Reagents Award* from the Royal Society of Chemistry (RSC). The award was presented at a meeting at the RSC Headquarters in London in June of this year. The award, sponsored by Merck Ltd., is one of two awards given by the RSC in the area of analytical chemistry and consists of a silver medal and a prize of £500.

Professor Uden is a graduate of the University of Bristol where he received his B.Sc. and Ph.D. It was there that he began his studies of gas chromatography under Frederick Pollard, one of the pioneers of the new technique. From 1964 to 1966, he held a postdoctoral position at the University of Illinois. Prof. Uden taught at the University of Birmingham from 1966 to 1970, before joining the faculty at UMass.

Professor Uden's research interests lie in various areas of separation science. Most of the work in his research group is in gas chromatography (GC) and includes work with mass spectrometric, infrared and atomic emission detection. Application of the GC-atomic emission detector has been the focus of metal speciation research in recent years. Work in this area was begun in the 1970's by former graduate student Bruce Quimby, now with Hewlett Packard Corp.

Professor Peter C. Uden

Other research in his group includes supercritical fluid extraction and supercritical fluid chromatography, high-performance liquid chromatography (HPLC), development of novel liquid chromatographic stationary phases and, more recently, capillary zone electrophoresis. In recent years his graduate students have worked on environmental problems such as chlorination byproducts of waste water treatment, soil pesticides and mercury speciation in fish, and clinical problems such as drug interactions in newborn infants. He has published over 175 research articles and several book chapters.

Professor Uden served as the Chairman of the IUPAC Commission on Chromatography and Analytical Separations from 1989-1993 and as the Chairman of the ACS Sub-division of Separations and Chromatography from 1992-94. Prof. Uden visited and gave short courses at the Central University of Venezuela and the Venezuelan National Oil Company Research Center in June, 1992. He also was an invited lecturer at the Royal Society of Chemistry Annual Meeting in April, 1993 and at the 1993 International Symposium on Capillary Chromatography in May, 1993. In addition to the awards described above, Prof. Uden received a Visiting Fellowship from the Japan Society for the Promotion of Science in June, 1993 and the Chernyaev Medal of the Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences. For the visiting fellowship, Prof. Uden spent three weeks in Japan, lecturing at various universities and industrial companies.

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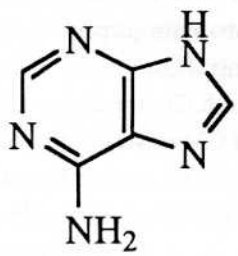


IN MEMORIAM

Prof. Thomas (Casey) R. Stengle, died March 19, 1993 at the Cooley Dickinson Hospital. Born in Lancaster, PA, he attended Franklin and Marshall College and the University of Michigan, where he received a doctorate in chemistry. Prof. Stengle began teaching at UMass in 1959. He served for many years as the Graduate Program Director. He was active at the Holy Rosary Church in which he was a communicant and the chairman of the Communications Commission Parish Council. Prof. Stengle was also a member of the Canadian Alpine Club, the American Alpine Club and the UMass Outing Club. He leaves his wife, Diane (Presz) Stengle and a daughter, Annie Stengle.

Prof. Sidney Siggia, Emeritus Professor of Chemistry, died October 15, 1992 after a long illness. Born in New York City, he received his bachelor's degree from Queens College in 1942 and received his doctorate in analytical chemistry from the Polytechnic Institute of New York in Brooklyn. He was a member of Sigma Xi and Phi Lambda Upsilon. Prof. Siggia joined the faculty at UMass in 1966 after a distinguished career at GAF Corp. and Olin Corp. He was well-known in the field of analytical chemistry for the 11 books which he authored or coauthored, including the text *Quantitative Analyses via Functional Groups,* which went into four editions. He also wrote 100 scientific papers and held five patents on the production of chemical materials. Prof. Siggia was also active in the American Chemical Society and was on the advisory boards of *Analytical Chemistry, Analytica Chimica Acta,* and *Chemical Instrumentation.* He was Chairman of the ACS Division of Analytical Chemistry from 1969–1970 and served as the chairman of the Gordon Conference on Analytical Reviews. Prof. Siggia was recognized for his research and teaching with the ACS Award in Analytical Chemistry, the Anachem Award and the Koltoff Award from the American Academy of Pharmaceutical Science. He retired in 1986.

Dr. Bruce James Marlow of Clarksburg, MA, died July 27, 1992 from injuries received in an automobile accident. Born in North Adams, Dr. Marlow was a graduate of Drury High School and North Adams State College, from which he graduated *summa cum laude* with a bachelor of science in chemistry. In 1981 he completed doctoral studies in physical chemistry and colloidal and surface science at UMass. He was a research chemist for Amoco Corp. in Naperville, IL, from 1981-1985 and a colloidal chemist for Pen Kem, Inc., of Bedford Hills, NY, from 1985 to 1988. Dr. Marlow was president and director of Colloidal Consultants, Inc., of North Adams from 1989 onward. He had 58 publications to his credit, three patents in the field, and was co-chairman (with R. L. Rowell) of the continuing Symposium on Colloidal Particles. Those who were personally acquainted with Bruce will want to know of "The Bruce J. Marlow Education Trust Fund" which has been set up for the benefit of his two young children. Donations can be directed to Mr. Don Marlow, 70 McArthur Drive, Clarksburg, MA 01247.

Dr. Stuart Clough died on November 18, 1992. Dr. Clough received his Ph.D. from UMass in 1966 under the direction of Prof. Stein.

FACULTY NEWS

LYNMARIE THOMPSON RECEIVES NSF YOUNG INVESTIGATOR AND COTTRELL SCHOLAR AWARDS

Lynmarie Thompson, Assistant Professor of Chemistry, has received two awards that are designed to support research by young faculty in the sciences. In the Fall of 1992, Prof. Thompson was awarded the prestigious National Science Foundation (NSF) Young Investigator Award. In the Spring of 1994, she also received a Cottrell Scholar Award, sponsored by the Research Corp. of Tucson.

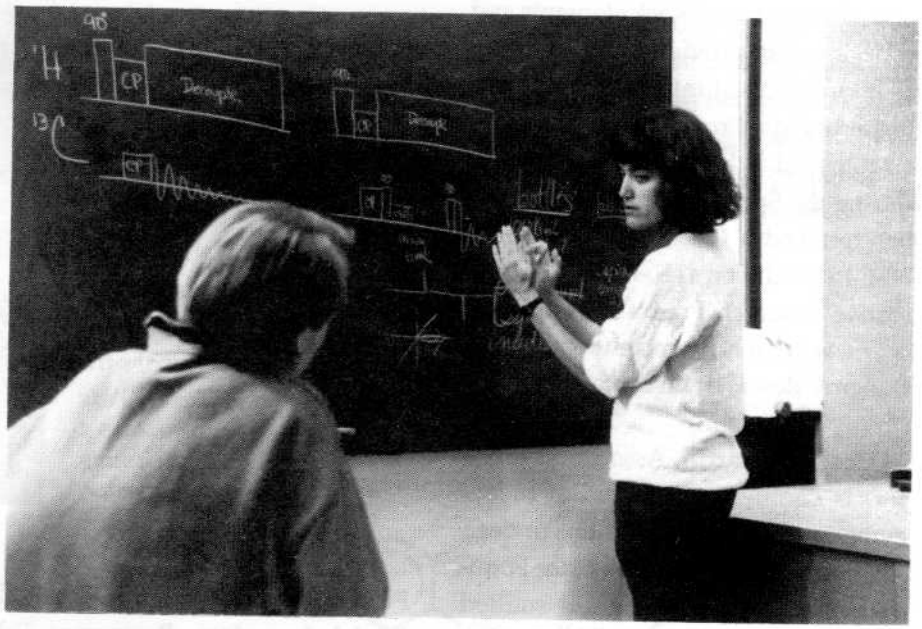
The NSF Young Investigator Award, originally called the Presidential Young Investigator Award, has been given since 1984 to recognize the achievements of young scientists as researchers and teachers and to support the future research of the Awardees. Prof. Thompson, who was one of 202 scientists selected in 1992 as a Young Investigator, is receiving approximately $100,000 per year for five years.

The Cottrell Scholar Awards are also designed to support young faculty; the Cottrell program strives to support excellence in teaching and research. The $50,000 awards have been granted to 17 scientists, all of whom are within three years of a tenure-track faculty appointment. This is the first year that Cottrell Scholar Awards have been presented.

Prof. Thompson's research is in the area of biophysical chemistry. The basic research is aimed at obtaining a better understanding of certain biochemical mechanisms. Specifically, her group is investigating how membrane receptors transmit information across cell membranes. The research requires the use of solid-state NMR to probe the molecular environment in and around the cell. Solid-state NMR is important because the chemistry can be monitored in the cellular environment. Prof. Thompson's research relies heavily on the solid-state NMR spectrometer that the university recently obtained.

Prof. Thompson has been a member of the faculty at UMass since 1991. She is a graduate of California Institute of Technology and Yale, where she received her Ph.D. in 1989.

(Faculty news continued on page 4)



Dr. Lynmarie Thompson discusses research with a student.

NEW FACULTY

Vincent Rotello joined the Chemistry Department as Assistant Professor of Organic Chemistry in the Fall of 1993. Prof. Rotello's research interests are in the area of organic synthesis and bio-organic chemistry. He received his Ph.D. from Yale University in 1990 and was an NSF Postdoctoral Fellow at the Massachusetts Institute of Technology from 1990-92.

Peter Samal joined the Department as Lecturer A in the Summer of 1993. Dr. Samal is responsible for the operation of the organic and inorganic laboratories. He received his Ph.D. in Organic Chemistry from Tufts University in 1976. Dr. Samal was an Assistant Professor at Brandeis University since 1983.