



CHEMISTRY DEPARTMENT NEWSLETTER

August 1983 No. 8

Dr. Robert B. Henderson 1919-1983



Dr. Robert Henderson visits with faculty and students at the dedication ceremonies for the Robert B. Henderson Organic Chemistry Laboratories, February 18, 1983. Left to right: Emma Webb, Undergraduate Chemistry Major; Joanne Parks, Graduate Student; Dr. Henderson; Dr. Betty Kazan, Professor of Microbiology.

All the positive events, news and accomplishments during the past year have been overshadowed by the passing of our colleague, Professor Robert B. Henderson, on April 20, 1983 after a lengthy illness. It is very difficult to visualize this department and University without his vital presence.

Dr. Henderson began his studies at Deep Springs College in California during 1935-1938 and continued at Cornell University where he earned a BA in Chemistry in 1940. From 1941-1945 he was a graduate student at UCLA, receiving an MA and PhD in organic chemistry in association with the late Professor Saul Winstein. His graduate education was

followed by about a year of employment at Shell Development Corporation in the San Francisco Bay Area. During 1947-48 he returned to teach at Deep Springs College. Dr. Henderson's ties with Deep Springs grew into a long association as a trustee and eventually Chairman of the Board of Trustees. From 1948-1955 he was a research associate at UCLA authoring an impressive set of publications in the field of medicinal chemistry.

In 1955 Dr. Henderson joined the faculty at CSULB, applying his enormous energy and organizational talents in our important formative years. He soon became Head of Physical Sciences and

Mathematics before the existence of a separate Chemistry Department. His guidance and influence in the curriculum, hiring of faculty and staff, purchasing of equipment, and planning and design of laboratories greatly influenced the tone and philosophy of this department. Most recently he applied his efforts to the design and construction of a beautiful suite of organic chemistry laboratories which were named in his honor at a dedication in February 1983 at which Dr. Henderson, his family and many of his friends and colleagues were present.

Dr. Henderson and his wife, Dora, enjoyed traveling and living abroad. Highlights included two year-long sabbaticals in London, one in New Zealand and a Fulbright fellowship in Chile. Among the scholarly activities pursued during these leaves was his interest in the history of chemistry.

In addition to accepting difficult administrative assignments, which included an associate deanship in the School of Letters and Science, he was a splendid teacher of organic and general chemistry. In the latter course, his role as coordinator for many years assured the smooth functioning of the lectures and many laboratory-quiz sections. His devotion to the department and to the thousands of students whose lives were enriched by contact with him was limitless. Professor Henderson was well known for his fairness, objectivity, academic rigor and firmness tempered by a quiet sense of humor. He is deeply missed by all of us.

Numbered among his research students who received doctorates in chemistry are Dr. John Crowley, Dr. Michael Monahan, Dr. Clois "Bert" Powell and Dr. Fred Seymour.

The Chemistry Department has established a fund in memory of Dr. Henderson to endow scholarships for deserving chemistry students. Contributions will be most welcome and may be sent to the Robert B. Henderson Memorial Fund in care of the Chemistry Department.

Dr. Edwin Becker and Dr. Louis Perlgut Retire

Two faculty members of the Chemistry Department, Dr. Edwin Becker and Dr. Louis Perlgut, became emeritus faculty at the conclusion of the spring semester of 1983. They join Dr. Julie Kierbow of Sun City, AZ and Dr. Don Simonsen and Mr. Clyde Osborne of Long Beach as emeritus faculty of this department.

Dr. Becker, born and raised in Iowa and a graduate of the University of Wisconsin with a PhD in physical chemistry, joined the faculty of the then Long Beach State College in 1955. He and Dr. Robert Henderson, who also became a faculty member in the same year, were the first permanent faculty of the Department of Chemistry. In those early years when faculty and students were few, Dr. Becker not only taught courses in chemistry but also physics, algebra, trigonometry and analytical geometry! Always active in faculty affairs, he became a member of the first Faculty Council, later to become the Academic Senate, of which he was chairman in 1969-70, the year of the most intense student unrest. Dr. Becker also was a Statewide Academic Senator for six years, four of those years as an Executive Committee member and two as Vice Chairman of the State-wide Academic Senate.

Dr. Becker and his wife, Catherine, who retired from the Long Beach Unified School District in June after 19 years as a junior high school teacher, intend to remain in Long Beach for the immediate future but plan to do considerable traveling. Although officially retired, Dr. Becker will serve as a special lecturer for the fall semester of 1983.

Dr. Perlgut was born, reared and educated in the New York City area, receiving his BS and MS degrees in chemistry from Rutgers University in the late 1930's. After an interval of 25 years, during which time he was involved in a family business, he returned to Rutgers and completed his PhD in biochemistry in 1965, becoming a member of the chemistry faculty at CSULB the same year. With other biochemistry faculty he was instrumental in organizing the very successful biochemistry MS program, and served as the graduate advisor for that program since the time



Dr. Louis E. Perlgut, Emeritus Professor

of its inception. Dr. Perlgut also served as Chairman of the Chemistry Department for a period of one year. He was elected to the Council of the School of Letters and Sciences for several years, was a charter member of the Rho Chapter of California of Phi Beta Kappa and served as its treasurer. Dr. Perlgut was also active in curriculum development, formulating a one-semester course in biochemistry for life science majors (Chem 448) and a course in nutritional biochemistry (Chem 449). He is the author of a laboratory text for the latter course. He is perhaps best known for his inspirational and effective instruction in Chem 300, a course in organic and biochemistry for nursing and home economics students. Remarked one faculty member, "Lou Perlgut is the Walter Cronkite of the Chemistry Department. When he walks into the classroom this kindly man immediately evokes the confidence and trust of his students."

Although officially retired, Dr. Perlgut plans to return to teach Chem 300 on a part-time basis and to continue his research in the areas of ribonucleic acids and oxidative phosphorylation.

CHAIRMAN'S REPORT

The past year can be characterized as one of progress and accomplishment by students and faculty. We have acquired one new permanent faculty member in biochemistry after a nationwide search, Dr. Roger Acey. In addition, our Department has requested permission to hire an inorganic and analytical chemist on the tenure track to begin the fall of 1984. Several research grants have been made to chemistry faculty, and there are numerous evidences of professional advancements: published papers, books, presentation of papers at meetings and seminars.

During the 1982-83 academic year a total of 63 degrees were conferred: 21 MS, 31 BA and 11 BS. The number of MS degrees granted represents the largest in the history of the department.

Our graduating students have been successful in gaining entrance into the finest postgraduate programs. Twelve have been admitted to medical, dental and pharmacy schools and eleven have been accepted into graduate programs. Most of the other students have succeeded in finding good jobs despite the present tightness in the job market.

Enrollments for the 1982-83 academic year in chemistry are the highest we have experienced in the twenty-five year history of our department. This is due to several factors: an increased enrollment in the School of Engineering for which chemistry is a service area, the new general education requirement mandating all students to have at least one physical science class with a laboratory, and growing degree programs in chemistry. We presently have almost 200 undergraduate majors and about 50 graduate students.

During the coming year the department will begin a two-year evaluation process. We will be engaged in a self-study program in 1983-84. This activity will be followed by a visit in 1984-85 by an external reviewer who will look carefully and critically at our program. I may be calling on alumni for a retrospective evaluation of this department as part of our self study, so be prepared! When the process is complete we will share results of the evaluation with you through the medium of this *Newsletter*.

Unfortunately, I have little to report in terms of improvement of our facilities or acquisition of significant pieces of new scientific equipment because of the stringency of state resources. Although the new Robert B. Henderson Organic Chemistry Laboratories are beau-

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STAFF CHANGES IN CHEMISTRY



New Chemistry Staff. Left to right: Joyce Nonaka, Bernadine Sparta, Robert Glenn and Mary Jane Thor.

Activities in the Chemistry Department would come to a grinding halt if it were not for the superb support enthusiastically given to the faculty and students by our competent staff members. Since our last *Newsletter* (August 1982), four new staff members have been hired into the department. We would like to introduce them to you and tell you something about each.

Joyce Nonaka began work in November of last year, replacing Karen Knox who was promoted to Director of Laboratories for the Chemistry Department. Joyce received a BA degree in chemistry in 1982 from UC San Diego and is an Instructional Support Technician in the Chemistry Issue Room. She and Bob Glenn are responsible for keeping the Issue Room running smoothly and for preparing for most of the laboratory classes. Reports Joyce, "I enjoy my job very much, and I feel very welcome here. The only immediate plans for the future call for a wedding in October, and I am nervous about it already!"

Bob Glenn, who also began work in November 1982, replaces Larry Herold who left his position to become a full-time student in the Master's of Business Administration program at CSULB. Bob attended Modesto Junior College and San Diego State University, where he received a BS in chemistry in 1982. "I find my present position as an Instructional Support Technician to be

both satisfying and challenging. It's satisfying in that, when I do my job well, things run smoothly and the students receive maximum benefits from their laboratory classwork. It's challenging because the main task of preparing solutions and assembling chemicals and equipment for laboratory classes is different every day. My present plan is to pursue an MS in Chemistry at CSULB on a part-time basis."

Bernadine Sparta is the newest addition to the secretarial staff and began work in January of this year. She takes the place of Suli Tukia, who resigned to return to the Kingdom of Tonga, her homeland, with her husband and two children. Bernadine worked part-time for Polaroid Corporation from 1969 through 1980 mainly as a customer service representative. She was hired at CSULB in July, 1980 as a part-time secretary in the Religious Studies Department and then transferred to the Chemistry Department as a full-time secretary. Bernadine remarks, "I find the Chemistry Department provides a very energetic, stimulating environment in which to work. One of the most rewarding aspects of my work is the daily interaction with chemistry students."

Mary Jane Thor is the newest member of the Stockroom staff, beginning work in January of 1983. She received her BA and MS degrees in Biology at CSU Northridge. Her affiliation with

CSUN continues as she is a half-time Instructional Support Assistant with the Department of Biology in addition to working half-time at CSULB in Chemistry. At CSUN she is curator of the Herbarium and also works in the departmental stockroom. Mary assists Karen Knox, Director of Laboratories in our department, in coping with the enormous task of reorganizing the storage and inventory of equipment, supplies and materials required for the operation of the Chemistry Department. "I also perform the nasty task of billing our students for their locker losses."

Reva Mae Walther, a member of our secretarial staff for eleven years, retired in May of this year. Reva has the distinction of serving as a staff member in Chemistry longer than any other present member of the staff. During her years in the department she became well known on campus. This was certainly evident at her farewell party which was thronged by people from all over the campus. Her husband, Norman, since his retirement from Rockwell, assisted during university registration. His cheerful attitude was always appreciated by frustrated students, standing in long lines trying to enroll in closed classes. The Walthers will continue to live in Long Beach and Palm Springs where they maintain homes. Immediately following her retirement, Reva and Norman departed for a lengthy vacation in Hawaii—much deserved, we might add.

CSULB CHEMISTRY DEPARTMENT NEWSLETTER

An annual publication of the Chemistry Department for past, present and future students and for faculty and friends of the Department.

News items and photos are welcomed and may be sent to:

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FOURTH RACHELLE LECTURER

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Dr. Kenneth N. Raymond, Professor of Chemistry, U.C. Berkeley and Fourth Annual Rachele Distinguished Visiting Lecturer.

Dr. Kenneth Raymond: Fourth Rachele Lecturer

Professor Kenneth Raymond, a bioinorganic chemist from the University of California, Berkeley, visited the department on March 15 and 16 as the Fourth Rachele Distinguished Lecturer. Professor Raymond, who is best known for his work on microbial iron coordination and the design of molecules which will specifically complex actinide ions, is a member of the Department of Chemistry at Berkeley and is also a principal investigator at the Lawrence Berkeley Laboratory. He has been a Sloan Research Fellow and a Guggenheim Fellow and is currently on the editorial board of the American Chemical Society journal *Inorganic Chemistry*.

Included in Professor Raymond's busy schedule were conferences and luncheon meetings with students and faculty and a breakfast meeting with the Department Advisory Council. He also gave three very stimulating lectures which clearly demonstrated the effectiveness of a multi-disciplinary approach to the solution of difficult and interesting chemical problems. The first lecture on microbial iron coordination was a general introduction for a primarily undergraduate student audience. This was followed the second day by two research seminars on "Coordination Chemistry and Microbial Iron Transport" and "Specific Sequestering Agents for Iron and Actinides." The Department of Chemistry is grateful to Rachele Laboratories for their continued

support of this fine series of visits by distinguished chemists.

Dr. Cohlberg Spends Sabbatical in Germany

Dr. Jeff Cohlberg is concluding a year's sabbatical leave at the German Cancer Research Center in Heidelberg, Germany. Dr. Cohlberg is a guest scientist in the laboratory of Dr. Werner W. Franke, a noted cell biologist and biochemist, and is working on the cytoskeleton in cells of epithelial origin.

"This is a fairly new field," Jeff explains, "and there are many basic questions to be answered concerning the molecular organization of these filaments and their interactions with other cell components." The function of intermediate filaments, he adds, is almost completely unknown, although they are major constituents of probably all cells in vertebrates. "I'm learning some of the newer techniques in protein chemistry," he says, "as well as getting some experience with things like cell cultures and electron microscopy." Having worked previously with bacterial ribosomes, Jeff plans to shift his research program into this new area upon his return to CSULB this fall.

Jeff reports that, "Heidelberg is a good place to spend a sabbatical leave. The Cancer Research Center is quite well funded, and the nearby European Molecular Biology Laboratory draws a host of interesting seminar and symposium speakers. Heidelberg is a very pleasant university town, and its central location has made weekend travel to other European countries feasible.

"The German labs are much more authoritarian than those in the US. Also, one of the quaint Old World customs still practiced here is to regard a university professor as someone deserving of great prestige and respect. Imagine that!"

Joseph Kaufman Cited for Distinguished Service

Joe Kaufman, graduating senior in chemistry, received several awards in recognition of his outstanding service to the Chemistry Department, the School of Natural Sciences and the University. In his senior year Joe served as president of the Student Affiliates of the American Chemical Society in one of its most active years since its formation in May 1960. The Department of Chemistry bestowed upon him its highest service award, the Toni Horalek Award, for his exceptional contribution to student activities in the department and his able and effective leadership as president of SAACS.

tiful, we have been unable to occupy them until a defect in the design of the ventilation system is corrected. There have been frustrating delays in accomplishing that work, but we have hopes that we will be able to move into them this fall. The suite consists of two identical laboratories separated by a spacious instrument complex to be shared by students from each laboratory. The special feature of these laboratories is an individual hood for each student. Each laboratory will hold 20 students per section. The organic complex was dedicated at a festive occasion on February 18 with Dr. Henderson officiating at a ribbon-cutting ceremony.

Elsewhere in this *Newsletter* the passing of Dr. Henderson is noted. He was a competent and dedicated chemist and teacher and a very special friend. As one of the first chemistry faculty, he had a great vision for the department and worked tirelessly to make that vision become a reality.

Gifts to the department by alumni and friends have been heartening and quite helpful. We very much appreciate your thoughtfulness and hope that other alumni will join the growing list of contributors. Through your generosity we are able to offer scholarships and awards, help support a seminar program and meet emergency expenses.

Recorded elsewhere is mention of the retirements of Dr. Becker and Dr. Pergut. Both have rendered excellent service to our department over the years, and our best wishes go with them. If you were a student of either I know that a card or letter from you on the occasion of their retirement would be most welcome.

Lastly, best wishes to all of you from the approximately 80 employees of our department. Please keep in touch!

Ken Marsi, Chairman

He also received the Distinguished Service Award for an Undergraduate for the School of Natural Sciences which was presented at the 1983 Commencement. He was selected for inclusion in "Who's Who in American Colleges and Universities" and to receive the Golden Nugget Award by the Associated Students for his outstanding service to the University.

Joe began his career at CSULB in the fall of 1977 as an "undeclared freshman." He became interested in Latin American studies and diplomacy and took courses in Spanish and Portuguese. "The following year I took a leave of absence and went to Latin America and became fluent in Portuguese but dis-

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interested in diplomacy. In the fall of 1979 I returned to CSULB where I chose chemistry as my major because it was the only science I knew nothing about!"

In the summer of 1980 he began a research project with Dr. Berry which was to continue for three years and to mature into a master's research program which he is to begin in the fall of 1983. His master's project will deal with the uses of recombinant DNA for the diagnosis of human diseases.

While an undergraduate, Joe presented two research papers, "Dilantin Inhibition of Ca⁺⁺ Transport in Human Erythrocytes" and "Affinity Purification of Conglutinin."

Juniors Accepted Into Pre-medical Summer Programs

Four chemistry majors have been accepted into medically-related summer programs. Rodolfo Arreola and Michael Peters will spend most of the summer at Harvard University in an intensive academic program designed for pre-medical students. David Thomas was awarded a California Heart Association Fellowship and is participating in medical research this summer. Theresa Rohr received a summer research grant from the School of Medicine at Tulane University in New Orleans where she is also involved in medical research. Mike Peters was the recipient of a Chemistry Alumni Scholarship to enable him to attend the Harvard summer program.

Hewlett-Packard Donates Gas Chromatograph

A new model 5880A gas chromatograph controlled by a micro-processor and housed in two assemblies, was donated to the Chemistry Department by Hewlett-Packard. One assembly of this GC contains a column oven with its associated gas controls, injectors, detectors, and electronics. The other assembly consists of a keyboard type control terminal with printer-plotter for "hard copy" data readout. With a few simple commands entered at the keyboard, the 5880A can be programmed to control its oven and injector temperatures as well as its flame ionization, thermal conductivity, and nitrogen-phosphorus detectors. This new addition to our list of equipment will be set up in the equipment room of the new Henderson Organic Laboratories for use by undergraduate and graduate students.

Student Affiliates of the American Chemical Society Report

by Joe Kaufman, President 1982-83

This past year has been extremely active and successful. The Student Affiliates have been fortunate to raise enough money to provide new programs in the Chemistry Department. Through the sales of laboratory safety supplies, i.e., aprons and eye protection, the SAACS earned about \$1900.

This year our organization emphasized student-faculty interactions in its programs. Every Friday morning the student organization sponsored a coffee and doughnut hour where students and faculty could meet informally and socially. Midway through the fall semester the students sponsored a spaghetti dinner and in December we held our annual party at which about 150 students, staff and faculty were present. During the spring semester SAACS organized a highly successful potluck dinner complete with live music.

Tee shirts with a Chemistry Department logo were designed and sold. Three \$175 research scholarships to undergraduates were sponsored from funds raised by SAACS and awarded to the best qualified student applicants. We have petitioned for a chemistry study room which we hope to have approved and in use by the fall semester.

In May the end of the school year was celebrated at an Awards Banquet where over 150 students, faculty and staff were in attendance to honor award recipients and to have a convivial time.

I wish to express my appreciation to Dr. Marsi, Nancy Tuler, John Berg, David Benton and Donna Moromisato for their outstanding contributions to the success of this year's program.

Nominations to Membership in Phi Lambda Upsilon

Although our department does not have a chapter of Phi Lambda Upsilon, the National Honorary Chemical Society, we are permitted to nominate to membership students who have completed 30 or more hours of chemistry, rank in the top 20% of chemistry students and have achieved a minimum grade point average of 3.5/4.0. Those qualifying for membership this year are:

Scott V. Gronert
Katherine L. Helgoe
Kathleen C. Kordich
Vivian C. Lasiter
Stephen L. Pentoney
Jeffrey N. Roberts

Scott Gronert Named Outstanding School of Natural Sciences Graduate for 1983

Each year one student from the School of Natural Sciences graduating class is selected as the Outstanding Graduate for that year. Scott V. Gronert, a chemistry major, was chosen from 275 Natural Sciences bachelor's graduates to receive this recognition. At the conclusion of his undergraduate studies Scott had compiled a grade point average of 3.97/4.0 and had received nearly every award which the Chemistry Department could bestow on one of its graduates: the American Institute of Chemists Award, the Dean Rhodes Award, the Merck Index Award for excellence in organic chemistry, the physical chemistry award, and the inorganic chemistry award. In addition he was one of seven students out of the University's graduating class of over 5,000 to be elected to Phi Beta Kappa.

Scott, a graduate of Wilson High School in Long Beach, began his college career quite undecided about a major and, in fact, did not declare a major in chemistry until his senior year. During his senior year Scott was a research student of Dr. John Stern, determining the heats of solution of sugars in various solvents.

After having been accepted for graduate work at Princeton, Cornell, UCLA, Stanford, UC San Diego, and UC Berkeley, Scott has decided to pursue a PhD in organic chemistry at UC Berkeley. This summer he is involved in a research project with Professor Andrew Streitwieser at Berkeley.

Corporate Contributions

The Chemistry Department gratefully acknowledges gifts from companies and foundations. In addition to corporate gifts, we wish also to recognize the legacy of an extensive journal collection from the estate of Dr. Robert B. Henderson and a gift of scientific glassware from Mr. James Mayfield of Long Beach.

Aerospace Corporation
Baxter Travenol Laboratories, Inc.
California Foundation for Biochemical Research
IT Analytical (West Coast Technical Service)
Hewlett Packard
Montrose Chemical Company
Rachelle Laboratories
Syva Corporation
TRW

GRADUATE SEMINAR: AN ACTIVE PROGRAM

Twenty-seven guest experts gave presentations at regular departmental seminars during the 1982-83 academic year. As always, speakers were selected to represent various areas of research activity in chemistry, both basic and applied. Speakers came from nearly all campuses of the University of California system, from industrial concerns, from universities out-of-state and from California State University campuses. From within our own university family, talks were given by representatives of four companies on the Chemistry Advisory Council (two speakers were also alumni), two additional departmental alumni, and six faculty members.

Particularly featured were the Rachele Visiting Lecturer for 1983, Dr. Kenneth Raymond of UC Berkeley, who discussed "Specific Sequestering Agents for Iron and Actinides" and the Departmental 25th Anniversary Commemoration Speaker Dr. Sidney Benson of USC, whose topic was "The Prediction of Chemical Reactivity."

Alumni: Mr. Ed Wilson, Brown and Caldwell, Inc., "Environmental Analytical Chemistry"; Mr. Jeff Hagenah, UCLA, "Synthetic Approaches to Anthrocydines".

Advisory Council: Mr. Ancel Calloway, Aerospace Corp. (alumnus), "Vacuum-Ultraviolet-Driven Chemical Vapor Deposition Reactions"; Dr. Mike Gardner, TRW Systems, Inc. (alumnus), "Hydrogenation of Filamentous Carbon-A Study of Heterogeneous Catalysis"; Dr. Ronald Herm, Aerospace Corp., "Elementary Reactions of Boron Monofluoride"; Dr. Dennis Saunders, Union Oil, "Recent Advances in HPLC".

CSULB Faculty: Dr. Ron Garber, "Is There Life After Sex? The Chemistry of Paternity Testing"; Dr. Mary Jacob, Home Economics, "Effect of Prenisone on Tissue Distribution of Zinc"; Dr. James Jensen, "Mechanisms of Acetal Hydrolyses: An Example of Biophysical Organic Chemistry at Work"; Dr. Steven Kuwahara, Hyland Labs (former faculty), "Contact Activation of Blood"; Dr. Andrew Wong, "Synthesis and Reactions of Rhenium Acyl, Vinylidene and Acetylde Complexes"; Dr. Victoria Yokoyama, Biology, "Insect-Insecticide-Plant Interrelationships in Cotton."

Dr. Peter Baine was seminar coordinator for the Fall Semester, and Dr. Darwin Mayfield handled arrangements during the Spring Semester. The Chemistry Seminar Program is supported entirely by contributions from chemistry alumni, faculty and firms represented on the Chemistry Department Advisory Council.

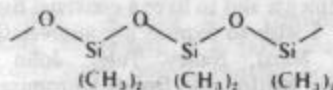
CHEMISTRY ADVISORY COUNCIL NOTES

Five years ago our department organized an Advisory Council as a means by which advice and support from industry and business could be effected. During that period of time excellent ideas have been advanced by members of this Council, meeting together with the chemistry faculty. Many of these ideas have been implemented by the department and have resulted in the improvement of our programs, especially in the area of preparing bachelor's candidates for a smoother transition from the academic into industrial work situations. Members of the Council have employed many of our graduates during this time and three of our alumni serve on the Advisory Council representing their companies. The Council has participated in funding special programs such as summer fellowships for MS students, tuition scholarships and special lectureships.

New members of the Council and their affiliations are:

Terry Cox, Dow Chemical USA
Kenneth Wagner, Nalco Chemical Company

Mr. Cox replaces Clayton Wannaker who retired, and Mr. Wagner is Ms. Andrea Larson's successor. Ms. Larson passed away earlier this year.



Governor's Safety Award Given to Karen Knox

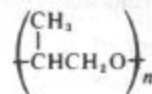
The Chemistry Department is pleased to announce that Karen Knox, Director of Laboratories, is the California State University system recipient of the Governor's State Employee Safety Award for 1982. She was chosen for her positive attitudes toward safety, knowledgeable and active work habits, and her ability to motivate employees to enhance the health and safety of the working environment within the Chemistry Department. Implementation of a "clean-up" program, reorganization and development of safety procedures, stringent waste management, and improved inventory storage and control are a few of the changes she has made. The exact date and location of the award presentation has yet to be established. We are proud of Karen's accomplishment; she has set an excellent example for all of us.

THANKS FOR THINKING OF US!

During the last year contributions from alumni and friends to the Department of Chemistry, including the Henderson Memorial Fund, approximate \$3,000. This is in addition to corporate and non-monetary gifts which are reported elsewhere.

The department is pleased to acknowledge contributions by the persons listed below during the past year. If you wish to contribute, please send checks to the Chemistry Department General Fund, Department of Chemistry, California State University, Long Beach, Long Beach, CA 90840. Your gift will be acknowledged by a personal letter from the Department Chairman.

Marc Barajas
Mr. & Mrs. Robert Barajas
Robert K. Blair
Dr. Walter A. Boyle, III, M.D.
Arthur W. Brown
Yucel Burdurlu
Victor V. Cachia
Chester L. Callaway
Ancel Calloway
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Mr. & Mrs. Daniel Schwartz
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Marjorie Silverberg
Dr. & Mrs. John H. Stern
Mr. & Mrs. Donald E. Sullivan
Pompun Tanjasiri
Dr. A. G. Tharp
Dr. Curtis Winters
Gerald E. Wuenschell



Master's Degrees Awarded, 1982-83

The diversity of research interests in the Chemistry Department is reflected in thesis titles of Master's graduates in Biochemistry and Chemistry. In addition to coursework requirements of thirty units, all persons receiving a Master's degree in either area must complete a piece of original research presented in the form of an acceptably written thesis.

Master of Science Degree with a Major in Biochemistry

Johan-Chanh M. Tran, "Crosslinking and sedimentation studies on ribosomal proteins"

Robin D. Bjorgan, "Radioimmunoassay in the estimation of the concentration of myelin basic protein in the cerebrospinal fluid of patients with multiple sclerosis: Its usefulness as a diagnostic test"

Hugh L. Hixon, "Reversed electron transport: A model system (II)"

Paul C. Serra, "A solid phase radioassay for histone reactive anti-nuclear antibodies"

Janet Cheng-Tieh Tseng, "A clinical assay for Graves' Thyrotoxicosis"

Master of Science Degree with a Major in Chemistry

Jui-Mei Chuang, "Synthesis of a conformationally locked cyclic hemiacetal: 5-1-2-hydroxy tetrahydropyran"

Anna B. Martinez, "Mechanisms of hydrolysis of benzaldehyde di-t-butyl acetal"

Robert E. Altermatt, "Interactions of cadmium, copper and zinc with hemoglobin and the Bohr effect"

Michael N. Briggs, "The effect of copper, cadmium and zinc on giant keyhole limpet hemocyanin"

Mario Fernandez, "A study of 1,3-oxaphosphorinanes. Synthetic studies toward juglomycin A"

Loc P. Le, "Design of a triple mixer stopped-flow spectrophotometer interface with a data system"

Chadrika D. Patel, "Studies of aren-sulfonimidates of aliphatic alcohols"

Duane R. Smith, "The oxidation of 4-methyl-2-thiopyrimidine hydrochloride by hexacyanoferrate (III) ion"

David Chernik, "Hammett correlation of the redox potentials of substituted porphyrins"

Gary L. Clevenger, "Reactivity of cyclopentadienyldicarbonylsilyliron - The mechanism of a silyl group migration"

Richard C. Kanner, "A triple-mixer stopped-flow kinetic study of general base catalysis in the breakdown of hemiacetals of benzaldehydes"

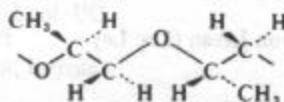
Steven R. McGown, "Identification of trace organic pollutants in the marine environment"

Hoang Nguyen, "Solvation of polypyridine complexes of iron (II)/(III)"

Shahla Roohani, "Chemistry of benzenesulfonimidoyl azides"

Lucio U. Tolentino, "ESCA studies of copper-sulfur complexes"

Sho-Chain Tsuang, "Kinetics and mechanism of the acid-catalyzed anomerization of α - and β -methyl D-glucopyranoside"



FACULTY NOTES

Dr. Roger Acey, Biochemistry Lecturer for 1982-83, has been appointed Associate Professor on the tenure track. Dr. Acey received his degrees from Wayne State University and was a faculty member at Wayne County Community College and a visiting professor at California State College, Bakersfield before coming to CSULB. He recently received a grant from the U.S. Department of Agriculture to help fund his research program. His research interests are in molecular biology.

Dr. Peter Baine is the General Chairman of the 1983 Western Regional Meeting of the American Chemical Society to be held jointly with the Society of Applied Spectroscopy, October 17-19 at the Pasadena Hilton. Approximately 300 papers are scheduled for presentation and about 50 scientific exhibitors will be present.

Dr. Edwin Becker and his wife, Catherine, travelled extensively throughout the United States this summer.

Dr. Jack Berry is spending several weeks in Dr. Jack Stevens' Lab (Professor and Chairman of Microbiology and Immunology at UCLA) learning recombinant DNA techniques and their application to the study of genetic mapping of latency and pathogenicity of the human herpes simplex virus (types I and II). Recombinant DNA techniques will have a strong application in the diagnosis of infections and genetic diseases. The prenatal diagnosis of sickle-cell anemia has already been accomplished using restriction enzyme analysis of amniotic fluid cells.

Dr. Stuart Berryhill has received tenure and has been promoted to Associate Professor.

Dr. Jerry Devore is studying numerical solutions of a closed form BGY equation he has developed for simple dense fluids. He also recently completed a combustion simulation for Fermilab concerning the possibility of explosions in large gas-filled scintillation counters.

Dr. Dorothy Goldish published a paper in *Heterocyclics* entitled "Cycloaddition of t-Butylcyano- and Chlorocyanoketene to Sulfur Diimides," coauthored with Dr. Harold Moore of UC Irvine. Also appearing in the third edition of "Basic Mathematics for Beginning Chemistry," published by Macmillan. She and her husband, Elihu, spent three weeks in England touring art galleries and museums this summer.

Dr. Isidore Goodman has been reappointed Lecturer in Biochemistry for 1983-84.

Dr. James Jensen has been appointed Acting Associate Dean of the School of Natural Sciences.

Dr. Gene Kalbus has conducted his seventh annual summer Energy Institute for elementary and high school teachers. This institute is sponsored by Southern California Edison. Included in the curriculum were field trips to energy-related sites such as San Onofre Nuclear Generating Station, Solar One in the Barstow area, the Sylmar Converter Station and the Oil Islands. Energy experts from government and industry were resource speakers. Approximately 30-45 teachers participate each year.

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Dr. Van T. Lieu has received research grants from the City of Long Beach to study "Reclaimed Sewage Water Characteristics for Oil Field Injection" and "Enhancement of Oil Recovery." He contributed a paper entitled, "Long Term Consumption of Caustic and Silicate Solutions by Petroleum Reservoir Sands," to the American Chemical Society Symposium Series.

Dr. Ken Marsi presented an invited seminar in the Chemistry Department at Duke University, Durham, NC, on his work in oxaphosphorinane chemistry.

Dr. Darwin Mayfield was the author of a feature article appearing in the Long Beach Press-Telegram on March 28, 1983 and entitled, "Pesticides: A Worldwide Threat." Dr. Mayfield will be on sabbatical during the spring semester of 1984.

Dr. Henry Po was recently notified that he is a recipient of a \$15,000 PRF grant to study "The Mechanism of Oxidation of Heterocyclic Thioamides."

Dr. Nail Senozan spent the Fall of 1982 at the Technical University of Istanbul, commuting daily on a ferry across the Sea of Marmora and the Bosphorus from an island on which he and wife, Diane, lived. Since suffering a serious heart attack in March 1982, Dr. Senozan developed an interest in heart medications and has coauthored, with his student Shari Nasser-Moaddeli, an article entitled, "Organic Nitrates and Nitrites as Heart Drugs." This paper is scheduled to appear in *J. Chem. Educ.* in the spring of 1984. Dr. Senozan reports, "I still teach general and physical chemistry and remain as excited about teaching as I was when I met my first class in September 1964."

Dr. John Stern is continuing calorimetric studies on a variety of sugars in aqueous solutions.

Dr. A.G. Tharp underwent major surgery earlier this year, has recovered nicely and is back in the classroom. He travelled to the Phillipines recently in connection with his hobby, growing orchids.

Dr. Andrew Wong has been reappointed Lecturer in Organic Chemistry.

Dr. Leslie Wynston spent a portion of the summer conducting a tour of wine-producing areas in Italy.

HONORS TO CURRENT STUDENTS AND NEW GRADS

Rodolfo Arreola	Harvard University Summer Fellowship
John Berg	Honors for Service
Kris Brink	Merck Award in Organic Chemistry
Ross Carlson	Freshman Chemistry Award
Gary Clevenger	Rachelle Medal, Outstanding Graduate Student in Chemistry Graduate Dean's List of University Scholars and Artists
Scott V. Gronert	American Institute of Chemists Award Award in Physical Chemistry Dean Rhodes Award Outstanding Graduating Senior, School of Natural Sciences Award in Inorganic Chemistry Election to Phi Beta Kappa Chemistry Alumni Award Graduation with Great Distinction and Honors in Chemistry
Richard Kanner	Rachelle Medal, Outstanding Graduate Student in Chemistry
Joseph Kaufman	Toni Horalek Award for Service to the Chemistry Department Distinguished Service Award, School of Natural Sciences Named to "Who's Who in American Colleges and Universities" Golden Nugget Award, Associated Students Honors for Service Chemistry Alumni Award
Janet C. Kiang	Rachelle Laboratories Tuition Scholarship
Kathleen Kordich	Graduation with Distinction and Honors in Chemistry
Hung Dwan Lee	Rachelle Laboratories Tuition Scholarship
Leon Levan (Loc Le)	Professor Kenneth Johnson Award for an Outstanding Master's Thesis
Mark Martinez	Graduation with Distinction and Honors in Chemistry
Melissa Peters	Award in Analytical Chemistry Natalie Lareau Memorial Award (West Coast Technical Service) Graduation with Great Distinction and Honors in Chemistry Election to Mortar Board
Michael Peters	Chemistry Alumni Award
Mehdi Rashidi	Merck Award in Organic Chemistry Natalie Lareau Memorial Award (West Coast Technical Service)
Ralf V. Reuland	Graduation with Distinction and Honors in Chemistry
Theresa Rohr	Tulane University Summer Fellowship
Mike Salman	Award in Biochemistry Chemistry Alumni Award
Armando Samaniego	Natalie Lareau Memorial Award (West Coast Technical Service) Honors for Service
Vivian (Lasiter) Smith	Assistance League of Long Beach Scholarship CSULB Alumni Scholarship Women's League CSULB Scholarship
Aron Thall	Rachelle Laboratories Tuition Scholarship
David Thomas	California Heart Association Summer Fellowship

PRESENT STATUS OF SOME OF OUR GRADUATING STUDENTS

(This is incomplete list based upon information available at the time the *Newsletter* went to press.)

Robert E. Altermatt, MS '82	PhD program, UC Riverside
Scott Barker, BA '82	Beckman Instruments
Anita Birosel, BA '83	Pharmacy School, UC San Francisco
Robin D. Bjorgan, MS '82	Hughes Aircraft
Michael N. Briggs, MS '82	Michaelson Laboratories
Robert L. Bruton, BA '82	Chem Pro Laboratories, Inc.
David Chernik, MS '83	Laboratory Supply Company
Jui-Mai Chuang, MS '82	Returned to Taiwan
Gary L. Clevenger, MS '83 ✓	PhD program, UCLA
Bradley G. Davis, BA '83	College of Osteopathic Medicine of the Pacific
Don Dillon *	Dental School, USC
Thomas Eldridge*	Los Angeles College of Chiropractic
Mario Fernandez, MS '82 ✓	PhD program, UC Irvine
Scott V. Gronert, BS '83	PhD program, UC Berkeley
Narleski Johnson, BA '83	USC School of Pharmacy
Richard C. Kanner, MS '83 ✓	PhD program, UCLA
Joseph C. Kaufman, BA '83	MS program, CSULB
Kathleen Kordich, BA '83	Dental School, UCLA
Leon Levan (Loc Le), MS '82	IT Analytical (formerly West Coast Technical Service)
Mark Martinez, BA '82	UC Davis
Sonia Molina, BA '83	Dental School, Harvard University
Donna Moromisato*	Dental School, Loyola University
E. Michael Mosig, BA '83	Postgraduate, CSULB
Dexter Morris*	Optometry School, UC Berkeley
Ron Nagel, BS '83	Dental School, Loyola University
Stephen L. Pentoney, BS '83 ✓	PhD program, UC Riverside
Melissa H. Peters, BA '83	Medical School, Loyola University
Bich T. Quach, BS '83	MS program, CSULB
Mehdi Rashidi, BA '83	Chemical Engineering program, CSULB
Ralf V. Reuland, BA '83	Postgraduate, CSULB
Armando Samaniego, BA '83	Medical School, Harvard University
Duane R. Smith, MS '82	ARCO
Johan-Chanh M. Tran, MS '82	PhD program, UC Riverside
Roswita Trismitro, BA '83 ✓	MBA program, CSULB
Chang-Tich Tsang, MS '83	Research Associate, CSULB

*These students were accepted into the programs noted prior to receiving a bachelor's degree

ALUMNI NEWS

We welcome contributions to this column from our alumni, and if you send photos we will attempt to print them in future editions, space permitting. We are always happy to receive information about you. It is shared with other faculty and your friends and classmates by way of this column. The

faculty feel privileged to have played a part in preparing you for your careers and are always eager to hear about you, your families and your accomplishments. Copies of this *Newsletter* are also made available to undergraduates and prospective majors, and the "Alumni News" column is used in counseling students concerning what can be done with a degree in chemistry.

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WHERE ARE THEY NOW?

This column gives an account of former faculty who at one time were part of our department. If you are a former CSULB faculty member, but were not featured in last year's or this year's *Newsletter*, you are invited to send in information about yourself so that former colleagues and students may be informed about your present status.

Dr. Richard Hunt, a member of the CSULB faculty in inorganic chemistry from 1965-81, is Professor of Chemistry at Morehead State University in Kentucky where he heads the Chemistry Department. He is busily building up the department's equipment inventory, recently acquiring an atomic absorption spectrometer, a JASCO infrared spectrometer and various gas chromatographs. "I believe the status of the Chemistry Department is improving within the University. Our service enrollments have about doubled, though the University is decreasing in size as a whole." The Hunts are building a home on several acres in the country, and their present project is to erect a bridge across a stream to gain access to their home.

Dr. Larry Kirk, who was a biochemistry lecturer at CSULB during the period 1979-81, received tenure and was promoted to Associate Professor at California State University, Chico. He reports that he has four undergraduate research students, one of whom presented a paper at the Student Affiliates of the American Chemical Society Undergraduate Research Conference recently held at UC Berkeley. Dr. Kirk's work centers mainly on the purification and study of the enzyme dihydrofolate reductase. He enjoys living in Chico and is busy landscaping his new home. Maureen, his wife, works as a dental hygienist.

Dr. Ken Legg is Director of Research at Instrumental Laboratory, Inc. a new division of Allied Corporation. He oversees the research and development activities of 15 PhD scientists who are designing products for clinical and biomedical applications. Dr. Legg has patented three new products, one for blood gas analysis and another for blood plasma separation without resorting to centrifugation. In winter the Leggs cross-country ski and in summer they sail their 27-foot boat in the Cape Cod area. Ardelle is science librarian at Boston University. Dr. Legg was an analytical faculty member in our department during the period 1969-79.

Alumni News

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1958

Philip L. Anthony, BS '58, a member of the first graduating class in chemistry, is a management consultant specializing in community systems, governmental relations and health care. He is a member of the board of directors of the Orange County Water District, and has published six papers in fields of chemistry and materials and chemical processing applications. He also holds two U.S. Patents and is a former member and chairman of the Orange County Board of Supervisors. Phil is married to Carolyn Knorz and has three children: Dionne 13, Philip 12 and Gregory 7.

1961

Dr. Fred Dorer, BA '61, has been appointed to the position of Provost and Vice President of Sonoma State University.

1962

Karen O'Malley, BA '62, works in Westwood for Sperry Corporation as a Field Education Specialist in Customer Education. She and her husband have two children, the oldest of whom will attend UCLA this fall in computer science. "My BS in chemistry resulted in a fantastic career in computer science."

Dr. Richard C. Parker, BS '62, is now Professor of Chemistry at the New Jersey Institute of Technology. His wife, Marilyn, who received her PhD in 1967 from the University of Washington, as did Richard, is Professor of Chemistry at Monmouth College in West Long Branch, NJ.

1964

Dr. Evord F. Knights, BS '64, continues as Vice President of Planning and Development for the Union Chemicals Division of Union Oil in Schaumburg, Illinois.

1966

Richard A. Ebner, BS '66, has been working for the Arabian American Oil Company (ARAMCO) since 1972 in the areas of environmental and safety engineering and management. His present job is Chief Loss Prevention Engineer, supervising approximately 100 safety engineers and technicians.

Dr. James R. Scott, BS '66, is employed as a staff dentist at a rural health clinic serving low-income, Spanish-speaking patients in a small town southeast of Fresno, CA.

1967

Dr. John Crowley, MS '67, was mentioned in a feature article on nonlinear optics in C&EN, October 4, 1982. He and colleagues at IBM's research center in San Jose, CA are using optically active compounds as a way of inducing non-centrosymmetric crystallization in the study of nonlinear optical effects.

Dr. Ralph Knights, BS '67, accepted a position in the Department of Food Research with Mead Johnson and Company after a two-year postdoc at the NIH. His present work is in the area of infant formulation. "I have worked on projects involving enzyme kinetics, protein chemistry, inorganic salt complexes, carbohydrate chemistry, viscosity measurements and control, immunochemistry and fatty acid oxidation. In my spare time I'm rebuilding a 130-year old house in "downtown" Newburg, IN (pop. 5600)."

Dr. Alan J. Senzel, BS '67, is currently Senior Chemist at Research Triangle Park, North Carolina for Del Green Associates, Inc., Foster City, CA. He is also consultant to Corning Glass Works, Raleigh, NC.

1968

Dr. Norman E. Hester, BS '68, now resides in Mission Viejo, CA.

Wayne Loomis, BS '68, is a Senior Research Chemist at Avery Label Company. "Avery is the world's largest pressure-sensitive label manufacturer and based in Azusa, CA. I am project leader for perfection of our flexographic printing processes for domestic and foreign plants."

Dr. Andrew G. Mitchell, Jr., BS '68, is a practicing family physician in San Pedro, CA and is also medical director of the Chemical Dependency Unit in the San Pedro Peninsula Hospital.

Raymond E. Ouellete, BS '68, works for Shell California Production, Inc. as an environmental specialist with responsibilities for water and waste disposal in the Exploration and Production Activities Division.

1969

Gary W. Valentine, MS '69, was promoted to Senior Staff Engineer in the Corporate Office for Manufacturing Technology at Hughes Aircraft Company. Gary was recently elected National Secretary and Member of the Board of

Directors of the Society for the Advancement of Material and Process Engineering. He has also been appointed to the Chemistry Advisory Council for the Chemistry Department by Dr. Stephen Horn, President of CSULB.

1970

Kenneth E. Cook, BS '70, is currently Region Manager for American Scientific Products, Industrial Division, Irvine, CA.

Greg Kalthoff, BS '70, after spending two years as a chemist with Signal Oil and Gas, is presently a partner in claims adjusting (Multi-Line Property and Casualty) in Denver, Co.

1971

Bill Garrett, BS '71, works for H.W. Campbell and Associates in Garden Grove, CA and is preparing to take the Professional Engineers examination.

William D. Givens, BA '71, writes cryptically from Huntly, New Zealand, "Ah, it's Sunday so this must be New Zealand." Please tell us more Bill!

J.Rodney Marsh, BS '71, is in his seventh year with SCS Engineers, a Long Beach-based environmental engineering consulting firm. He is Senior Project Engineer in the Hazardous Waste Specialties Division. "This past December I completed work on an MA in History at CSULB (a hobby that got out of hand)."

Jim Merrill, BS '71, works at Nutrilite Products testing cosmetics, vitamins and pharmaceuticals.

Alan Rosenstein, MS '71, is employed as a staff research associate at UC Irvine, Department of Psychobiology, where he is involved in brain biochemistry and neurophysiology research. "We are investigating the neuronal plasticity and aging in the dopaminergic neural pathways."

1972

Raymond Beard, BS '72, is working as laboratory supervisor in Barstow Community Hospital.

Dr. Byron C. Burros, MS '72, is currently serving as ACS Southern California Section secretary and is chairperson of the Employment Clearing House Committee for the Pacific Conference on Chemistry and Spectroscopy to take place in Pasadena in October.

Michael R. Hoover, BA '72, is a criminalist with the Long Beach Police Department Crime Laboratory. He was previously a criminalist with the Los Angeles Police Department Crime Laboratory.

Dr. Richard Jope, MS '72, has moved to the University of Alabama Medical Center in Birmingham, AL where he is an assistant professor of pharmacology and neurosciences. His research continues to be in the area of biochemical causes of neuropsychiatric illness and dementia. "Birmingham is an extremely pleasant place to live and this university is in the top twenty nationally. I would encourage students going on for graduate work to consider schools outside California for a broader education experience and for the fun of trying something different."

Dr. Joseph R. Reeve, Jr., MS '72, spoke at the 4th International Symposium on Gastrointestinal Hormones at the Karolinska Institute in Stockholm, Sweden and coupled this with a visit to Poland, Germany and other parts of Sweden. The Reeve's children are Joy 9 and Joshua 7. Joe is Adjunct Assistant Professor in the School of Medicine at UCLA.

1973

Dr. Walter A. Boyle III, Student '73, has accepted a position as Assistant Professor of Medicine and Anesthesiology at the School of Medicine, UC Davis. He has an on going research program in physiology on the hemodynamic importance of peptide hormones.

Arthur Brown, BA '73, has taken a two-year leave of absence from Marina High School, where he teaches chemistry, to teach in a DOD School in Japan and reports, "it has been a great experience. We are 20 miles from Tokyo and plan to do a lot of traveling in the Far East."

Dr. Charles A. McCombs, BS '73, works for Tennessee Eastman in Kingsport, TN. He is a Senior Research Chemist in the Health and Nutrition Division.

Dr. Robert Rona, MS '73, has begun a new job with Swedlow, Inc. in Garden Grove. He is a research chemist in the company's high-strength acrylic plastics program for the aviation industry. He and Mrs. Rona have two girls 6 and 4. Says Bob, "I have many fond memories of my time at CSULB."

1974

Steve Shapiro, BS '74, works as a quality control chemist at U.S. Borax.

1975

Chester Callaway, BA '75, is a sergeant in the U.S. Army serving in Germany. He reports "the summers are sunny and warm in Bavaria and the *bratwurst* and *bier* also very good." He has been an assistant in the defensive training of individual soldiers against chemical and biological warfare threats.

Dr. Albert Chan, MS '75, received his PhD from the University of Nebraska in toxicology. Dr. Chan is now Assistant Professor in the Department of Pharmacology and Toxicology at the University of Mississippi Medical Center in Jackson, MS.

Peter Harney, BA '75, received an MS in biochemistry from the University of Hawaii. He and his wife, Jennifer, a lieutenant in the US Air Force, now live in Bedford, MA. "We live on the outskirts of Boston, between Concord and Lexington. Drivers are crazy, but the forest, trees, and New England style homes are magnificent."

Stuart A. Nowinski, BS '75, is an instructor in chemistry at San Marino High School and was recently elected to the Executive Committee of the Southern California Section of the American Chemical Society.

Dr. Robert K. Ono, MS '75, has completed his fourth year as an Assistant Professor at Pierce College in Los Angeles.

Pornpun Tanjasir, MS '75, is employed by Pongchai Patana Co., Ltd. in Bangkok, Thailand where she is managing director of import-export services.

1976

Nicholas G. Champlin, BA '76, is Senior Development Chemist at Products Research and Chemical Corporation, a sealants and adhesives manufacturing company. He is also president of Towinik, Inc.

Dr. Scott D. Greer, MS '76, is finishing an internal medicine residency at Los Angeles County/USC Medical Center and will begin a gastroenterology fellowship at Scripps Hospital in La Jolla. "Most important, I am the proud father of a baby boy, John W., born March 10, 1983."

James Jasperse, MS '76, has begun a new position at Sherex Chemical Company. His work involves the development of methods of analysis for fatty alcohols and quaternary ammonium salts. He also uses HNMR and ¹³CNMR to identify fatty alcohols.

Dr. David Kanne, MS '76, is now employed with Stauffer Chemical in the San Francisco Bay area. Louise and David have two children, Patricia 1½ and Melissa 4½.

Pete Ladjimi, Jr., MS '76, is a chemist with the Mobil Oil Refinery and lives in Long Beach.

Dr. William F. McCoy, BA '76, is completing a one-year post-doctoral fellowship at the University of California, Irvine. Bill and Diane K. Basl are to be married this summer in Salem, OR.

Dr. Dean Ueda, BA '76, is a staff pharmacist at UCLA.

Dr. Ercan Unver, MS '76, has moved from Izmir, Turkey where he was a professor at Ege University, to Southern California. He presently is a postdoctoral research associate in the Department of Chemistry at USC.

1977

Tom Augimeri, Student '77, works as a CPA. Tom was an MS student in Chemistry until his interest turned to business administration.

Reinhold Bauer, BA '77, is a member of the Chemistry and Physics Laboratory in the Surface Science Department at Aerospace Corporation. "I am currently working on rf planar diode sputtering of MoS₂; a lubricant, as a thin film of about 2000 Angstroms. I'm also doing traditional chemistry such as GC, HPLC and some wet chemistry on various lubricants."

Gregory J. Dorsman, BA '77, is quality control manager with Sybron, manufacturer of dental materials, in Costa Mesa, CA. Greg formerly worked with Rachele Laboratorier. Greg and his wife, Lorna, announced the birth of their first child, Christina, born July 8, 1983.

Dr. Henry Eran, MS '77, received his PhD from USC during the summer of 1982 and is presently postdocing with Dr. Charles McKenna on a nitrogenase project.

Rick Goyt, BA '77, was recently promoted to National Service Manager for the Syva Company which manufactures and sells reagents for drug monitoring. Syva does THC monitoring for the military. "I am doing well largely due to the fine education I received at CSULB."

Ted Jennings, BA '77, has a job as a quality control chemist for Lonza, Inc., a manufacturer of surfactants in Long Beach.

Dr. Richard Lee, BS '77, is presently in his second year of residency in internal medicine in Arizona. He plans to enter the cardiology residency program at USC next year.

Dr. Chris A. Pritos, Student '77, is a postdoctoral associate in the Department of Pharmacology, Yale University School of Medicine, working with Dr. Alan C. Sartorelli on the mechanism of action of antineoplastic compounds.

1978

Dr. Christos Angeletakis, MS '78, works in the research and development department for Sybron Corporation, Costa Mesa on advanced dental materials.

Dr. Jane Kim Farmer, BS '78, received her PhD in chemistry from Michigan State University and is presently a medical student at USC as is her husband, Richard.

Melanie M. Grady, BA '78, is chief chemist in the quality-engineering process control laboratory at McDonnell Douglas. Her duties include "the monitoring and trouble-shooting of approximately 175 chemical process tanks used to treat various parts of aircraft." She says, "Emphasize to the students the importance of instrumental analysis and quantitative analysis as a key to job success."

Norman Hegler, BS '78, received his PharmD from UC San Francisco and now resides in San Pedro, CA.

Dr. Raymond Lyons, BA '78, received his MD from the University of Minnesota Medical School this year and plans to specialize in family practice. His wife, Martha, a former CSULB student, is a graduate of the Gemological Institute of America and is managing a jewelry store in Minneapolis.

Kurt A. MacLean, JD USC '82, BA '78, is now associated with the law offices of Poms, Smith, Lands & Rose in Los Angeles and specializes in patent, trademark, copyright and licensing law.

Dr. Marianne Marsi, BS '78, has a post-doctoral appointment at Brandeis University in Waltham, Massachusetts with Dr. Myron Rosenblum. Her husband, Dr. Lewis Manning, is a postdoctoral associate of Dr. Kevin Peters in the Chemistry Department at Harvard University. Marianne's research is in organometallic chemistry and Lewis work is in the area of organic photochemistry.

Josh Prager, BS '78, has just completed his first year at the Southern California College of Optometry in Fullerton.

Robert Proffitt BA '78, works with TRW in Redondo Beach as a Computer Programmer.

Randall E. Smith, BA '78, works in the materials and processes department as a chemist/metallurgist in Fullerton at Hughes Aircraft Co. His office mate is Steve Headbrick, BA '79, Chemistry.

Dr. Craig Sween, BA '78, has received his DDS and will be practicing dentistry in the South Bay area. His wife, Rene, will be returning to CSULB to finish her degree in Marine Biology.

Malcolm Windsor, BS '78, is employed by the Department of Defense as a environmental engineer at the Pine Bluff Arsenal in Arkansas.

Gerald E. Wuenschell, BS '78, is continuing his research into modelling of hemoglobin and myoglobin and works under the direction of Professor Chris Reed at USC.

1979

Dr. Delyse Buus BA '79, completed her MD at UCLA in June and is currently doing a medical internship at Good Samaritan Hospital, Phoenix, AZ. Delyse plans to specialize in ophthalmology.

Steve Castellino, BS '79, continues as a graduate student at UC Riverside. He and his wife, Kathy, are proud parents of a new-born son, Matthew Ryan, born March 11, 1983.

Tam Ming Chung, MS '79, is in medical school at Georgetown University in Washington, DC and lives in Arlington, VA.

William Davenport, BS '79, received his MBA degree from UCLA in June.

Gayle Withers Doyle, BS '79, works as a chemical engineer in electronic components analytical failure analysis for Zilog, Inc. in Boise, Idaho. She has published three papers and attended numerous conferences relating to her work in failure analysis.

Dr. Robert Ekman, Student '79, has completed his PharmD at USC.

Sam Fasheh, BA '79, is an Associate Contract Negotiator with Jet Propulsion Laboratory. He is presently attending UCLA extension and working towards a Professional Designation in Government Contract Management. Sam states, "I feel that my chemical education is one of my strongest assets in a tough and competitive job market. As I look back, I find that one of my best decisions was to major in chemistry at CSULB."

Stephen M. Fritch, MS '79, works as a chemist for the Long Beach Police Department and is a part-time student at CSULB in Chemical Engineering and Business.

Melanie M. Grady, BA '79, works as a Process Control Chemist at McDonnell Douglas Aircraft Company in Long Beach.

Thomas M. Johnson, BS '79, received an MS degree in analytical chemistry from the University of Washington and is pursuing a modeling career in New York.

Gary LaRowe, BA '79, works at Genentech in South San Francisco and will be completing an MBA degree at CSU Hayward that was begun at CSU Long Beach.

Dr. Luis A. Lomeli, Student '79, received his MD degree from USC and presently resides in Modesto, CA where he is in a three-year residency in Family Medicine at Modesto Scenic General Hospital.

Robert P. Maiden, MS '79, works as a research chemist for Avery International Research Center in Pasadena and also owns his own glassblowing shop in Fullerton.

Patrick McKay, MS '79, works in the Protein Biochemistry Department at Genentech under the direction of Dr. Steve Spencer. His work involves the purification of interferon, "a well-touted anti-viral agent." He has just published an article in *Analytical Biochemistry*, 126, 29-36 (1982). He says, "I miss the great environment at CSULB."

Fred McKibben, MS '79, is a premedical student at USC in his final year. Fred and Diane were married in Pasadena on June 11.

Dr. Tony McLaughlin, BA '79, received his DDS degree earlier this year at the University of Washington and plans on opening a private practice in the Bellevue area. His wife, Maureen, continues her work at Boeing in software engineering and is beginning a master's program at Seattle University in software engineering.

David R. Oliver, MS '79, is Professor of Chemistry and Physics at Oxnard College. David just received a grant from the Fund for Instructional Improvement to develop an engineering physics program at the college. He and Karen have a new son, Michael 1 1/2.

Dr. Curtis Winters, BS '79, received his MD degree from USC in May and is doing an internship in internal medicine at Los Angeles County/USC Medical Center.

1980

Eric Barajas, BA '80, is in his fourth year of dental school at UCLA.

Robert Blair, MS '80, works at Bio-Research in polymer chemistry. Research focusses mainly on medical applications.

Dr. Mark W. Brisley, BA '80, is currently in dental school at USC.

Victor Cachia, BA '80, has completed his second year at California College of Podiatric Medicine and says that "things are going quite well, and I have been well prepared for my work here."

Gregory J. Downs, BA '80, has completed his second year of medical school at The Medical College of Wisconsin. During the summer of 1983 he performed a clerkship in anesthesiology and completed his research in hyperbaric medicine.

Brian Dubow, BS '80 is Chief of the Fuel Engineering/Tomahawk Cruise Missile Program at General Dynamics Aerospace, Convair Division.

George Eliades, BA '80, is in his junior year at the Northwestern University School of Dentistry and is "a full-time bartender at nights and on weekends." George says, "All the science, at times, seems to be non-relevant when you're an undergrad, but believe me, it is all needed when you go to dental school."

Alan Galuska, BS '80, and his wife Cindi are parents of a new son, Kristoffer Ryan. Alan is a PhD candidate at Cornell University in analytical chemistry. "My specialty is the development of ultra-sensitive methods of quantitatively analyzing heterogeneous thin films and interfaces. This work is applied to a variety of biological, geological, and metallic surfaces. Most of my time is spent working in conjunction with electronic engineers and material scientists at the National Laboratory for the Construction of sub-micron structures at Cornell and the Naval Research Laboratory in Washington, D.C."

Les Henderson, BS '80, is continuing his studies in the chemistry PhD program at Louisiana State University, Baton Rouge. The Hendersons have a new-born daughter, Deanne, in addition to a son, Leslie.

Robert E. Klenck BA '80, is in the Class of '86 of the USC School of Medicine. His wife, Susan, "is putting me through by working as a customer service coordinator at IBM in Los Angeles."

K. Scott Marsi, BA '80, has completed his MS in analytical chemistry at San Diego State University under the direction of Dr. Dale Chatfield. Scott and Linda Hashiguchi were married on January 1 and are living in San Diego.

Sonia Molina, BA '80, will be attending the Harvard University School of Dentistry this fall. "It was very reassuring to have a degree that gave me a variety of choices when deciding on which job was best for me."

Laurene Duke Montgomery, BS '80, has completed the third year of Dental School at UCLA School of Dentistry. She and Scott Montgomery, a CSULB graduate who is employed as a research and design engineer at Hughes Aircraft in El Segundo, were recently married.

John E. Neff II, BA '80, works with Cord Laboratories in Broomfield, CO testing raw materials, intermediates and final products.

Douglas O'Neill, BA '80, is a Research Tech III at American McGaw and works on feasibility studies of intravenous nutritional products in rats. He also performs analyses of plasma and urine on Phase III human clinical studies.

Karen M. Rogers, BA '80, is manager of the chemistry section of Agri Science Laboratories, Cerritos, CA.

Dean Sequera, BA '80, received his MBA from CSULB and now works for Beckman Instruments in Richmond, VA. He has authored several articles on infrared instrumentation and contributed some input into the development of a new F-T infrared instrument. He is presently a sales representative and was married in May to Pamela Long, an MBA student at CSULB.

Susan Torian, Student '80, is presently a third-year student at the UC San Francisco School of Pharmacy and plans to graduate with a PharmD in June 1984.

1981

Kathryn E. Dennis, BS '81, is currently doing research in Biochemical Engineering at Caltech. She has had a paper accepted for publication in *Biotechnology and Bioengineering*.

Marianne Denny, BA '81, has begun her third year of medical school at USC. Her daughter Stephanie "is 16 months old and getting very big."

Tom Harmon, BA '81, has completed requirements for the MA degree in chemistry at USC and will enter the University of Pittsburgh's School of Medicine this fall. Tom received the outstanding teaching assistant award for freshmen chemistry at an awards ceremony in May at USC.

Janet Havey, BA '81, works at Rachele Laboratories in the Quality Assurance Department and reports, "I am the mother of a beautiful one-year old boy."

Kanella V. Huscroft, BA '81, is on leave from her job as photolithography engineer at Hughes Aircraft Company, Newport Beach to raise her newly born son, William Alexander. Her husband, Bill, works as product supervisor in R&D at Kal Kan Foods.

Bette T. Korber, BS '81, has passed her oral and written PhD preliminaries at Caltech and now has only to complete her thesis research. Bette is a PhD candidate in the Biophysical Chemistry program.

Jeffrey Jetter, BS '81, works in the x-ray spectroscopy laboratory at the Union Oil Research Center in Brea, CA.

Jack E. Long, BA '81, has completed his first year of medical school at Cincinnati University. This summer he and Emily Spidle were married in Anniston, Ala. "Medical School is tough but interesting. Thanks for an excellent preparation for my further educational endeavors."

John Menke, BA '81, received an MS degree in biochemistry from UC Davis and will enter the School of Veterinary Medicine at Davis this fall.

Michael Nussbaum, BA '81, is a student of medicine at Texas Tech University in Lubbock, TX.

Clayton Shepard BA '81, continues as a student at the University of Minnesota School of Dentistry.

Gary Tietavainen, MS '81, is now employed with Atlantic Richfield in Torrance and is working on an MBA at Pepperdine University.

Deidre R. (Lee) Uku, BA '81, is employed by Los Angeles County as a Public Health Inspector (Sanitarian).

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Robert Altermatt, MS '82, is presently employed at TRW

Mike Briggs, MS '82, is employed at Michelson Laboratories.

Carmen Z. Carr, BA '82, is a graduate student in the Department of Biological Chemistry of the School of Medicine at UCLA.

David Chernik, MS '82, is now Vice President of General Chemicals, located in the Long Beach area.

Julia Chuang, '82, has returned to Taiwan where she is seeking an industrial position.

Marly K. Eidsness, BA '82, is a PhD candidate in physical chemistry at the University of Cincinnati working on x-ray absorption spectroscopy applied to anti-arthritis gold drugs and metabolites. She received the Graff Lowenstein Fellowship for the 1982-83 academic year.

Gene A. Graves, Student '82, is completing a degree at Humboldt State and will be married in October.

James Gregson, BA '82, teaches high school chemistry at Banning High in Wilmington, CA. During the past summer he was a participant in the UCLA Science Project Summer Institute which was designed to develop master teachers for in-service teacher workshops.

Renee Hermes, BA '82, is currently working toward a MS in chemistry at CSULB under the direction of Dr. Maricich.

Pamela Hubler, BS '82, was recently employed by IT Analytical, Cerritos, CA and works in the gas chromatography group.

Narleski Johnson, BA '82, is a pharmacy student at USC.

Leon L. Levan, (Loc Lee), MS '82, is employed at West Coast Technical Service, Inc. in Cerritos, CA.

Annie N. Luu, BS '82, received a MS in Biochemistry from UC Riverside in June of this year.

Anna Martinez, MS '82, is employed as a research chemist at American Hospital Supply.

Chandrika D. Patel, MS '82, completed her MS degree in chemistry with Dr. Tom Maricich at CSULB and has a new daughter, Aarti.

William Shoemaker, BS '82, has completed his first year of medical school at UC San Francisco. Bill spent the summer doing a preceptorship with a family practitioner in a rural area outside of Sacramento.

Duane Smith, MS '82, and Vivian Lasiter, a senior undergraduate major in chemistry, were married June 11 at the Wayfarer's Chapel on the Palos Verdes Peninsula.

Rith Thyboun, MS '82, works as a research chemist at American Hospital Supply.

Johan-Chanh M Tran, MS '82, is in the biochemistry PhD program at UC Irvine.

Diana Waldman - Talpos, BA '82, was accepted to medical school at UC Irvine.



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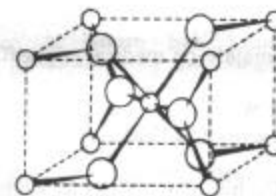
Marc Barajas, BA '83, is attending the UC San Francisco School of Pharmacy. Writes Marc, "I would like to encourage all students who are contemplating careers in the health sciences to consider majoring in chemistry."

Gary Clevenger, MS '83, begins a PhD program in organic chemistry this fall at UCLA. Gary received his MS under the direction of Dr. Stuart Berryhill.

Mario Fernandez, MS '83, is in the UC Irvine PhD program in organic chemistry working for Dr. Harold Moore.

Anton Gaertner, BA '83, works for Chevron Research in the Los Angeles area.

Janet Tseng-Fung, MS '83, is employed by Specialty Labs in Los Angeles as a Research Scientist. She intends to continue for her PhD in immunology at UCLA in the near future. Janet has several research publications pending.



Vivian (Lasiter) Smith Awarded Three Scholarships

Vivian (Lasiter) Smith, a chemistry major completing her junior year, received three prestigious scholarships for the 1983-84 academic year. She was the School of Natural Sciences recipient of a \$500 CSULB Alumni Scholarship to meet expenses of books and fees. In addition, the Women's League of California State University, Long Beach presented Vivian with a \$500 scholarship, and the Assistance League of Long Beach made her an award of \$450.

Vivian began her college education in 1971 as a business major, and after two years of study worked full-time in county government. Realizing how important a college education was to her personal growth and job potential, she returned to college in 1979 and is presently an undergraduate research student of Dr. Henry Po. She and Duane Smith, MS Chemistry '82, were married on June 11.