

CHEMISTRY

BIOCHEMISTRY

For past and present students and friends of Chemistry and Biochemistry at California State University, Long Beach • Fall 1996 • Number 21

DR. GLENN NAGEL: NEW DEAN

Dr. Glenn Nagel, professor of Chemistry and associate dean of Natural Sciences and Mathematics at California State University, Fullerton, assumed the deanship of the College of Natural Sciences and Mathematics at CSULB in August. Dr. Nagel earned a BA in Chemistry from Knox College and a PhD in Biochemistry from the University of Illinois Medical Center, Chicago. Following post-doctoral work at UC Berkeley, he spent his entire academic career at CSU Fullerton where he served as director of the CSUF Institute for Molecular Biology and Nutrition, director of the National Science Foundation REU program, and a participant in the National Institutes of Health Minority Biological Sciences Research Support program (MBRS), and chair of the Chemistry and Biochemistry Department.

Dr. Nagel has published numerous papers in professional journals and has received over \$2 million in personal grants from funding agencies including the NIH, NSF and Research Corporation. He has held visiting professorships at MIT and UC San Diego.

Among his many honors are CSUF Outstanding Professor Award, Alfred P. Sloan Foundation Award, an NIH National Research Service Award, the CSUF School of Natural Sciences and Mathematics Distinguished Faculty Award, a Scholar/Fellow Award from the Camille and



Dr. Glenn Nagel, Dean, College of Natural Sciences & Mathematics



Dr. Nail Senozan, Chair, Chemistry & Biochemistry

Henry Dreyfus Foundation and the 1996 Andreoli Award for career contributions to biotechnology in the California State University.

Dr. Nagel succeeds Dr. David Soltz, who served very ably as acting dean for the past year, following the death of Dean Jensen in August, 1995. Dr. Soltz accepted the deanship of the College of Natural and Social Sciences at California State University, Los Angeles.

DR. NAIL SENOZAN ASSUMES CHAIRMANSHIP

by Caroline Klaess,
Undergraduate Student

The Department of Chemistry and Biochemistry has a change of leadership this fall. After 21 years of dedicated service as chair of the department, Dr. Kenneth Marsi, who retired in August, handed the reigns of the chairmanship to another dedicated professor, Dr. Nail Senozan.

Originally from Istanbul, Turkey, Dr. Senozan first came to the United States in 1956 to complete his undergraduate work at Brown University, where he graduated with highest honors in inorganic chemistry. His graduate studies took him to UC Berkeley where his efforts were concentrated on the study of physical chemistry, specifically the behavior of pure crystalline metals. In 1964 Dr.

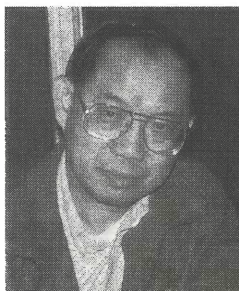
Senozan came to CSULB as a member of the physical chemistry group.

Throughout the years Dr. Senozan has earned the respect of students and faculty members as a rigorous teacher and able researcher. He is regarded as a gentleman and a kind and caring individual.

After arriving at CSULB Dr. Senozan established a research program, initially focusing on the thermodynamic properties of ammonia-metal solutions. More recently his interests have shifted to the physical chemistry of myoglobin and hemoglobin. His most recent paper, published in *The Journal of Chemical Education*, is titled "History of Hemoglobin: Synergy between Chemistry and Medicine."

Dr. Senozan was named University Outstanding Professor in 1994, and was also the recipient of Fulbright Fellowships in 1984-85 and 1991-92.

DR. LIEU AND DR. MARS TAKE "FACULTY EARLY RETIREMENT"



Dr. Van T. Lieu,
Emeritus Professor

Dr. Van Lieu and Dr. Ken Marsi have opted for "faculty early retirement," a program which permits faculty to retire and then return to campus to teach a half-time course load on an academic-year basis. Dr. Lieu will teach a full load in the spring semesters and take off the fall semesters, and Dr. Marsi will teach half time each in the fall and spring semesters. Currently, faculty electing this plan may continue to teach for up to five years following retirement. They will join Dr. Gene

Kalbus, who begins his third year on "faculty early retirement" as a fall-only instructor.

Continued on page five

EDITOR'S REPORT

This will be my last editorial as department chair, because I will be retiring from the chairmanship (21 years) and as a full-time faculty member (35 years) at the start of the fall semester of 1996. I will then return as an emeritus half-time faculty member. Briefly stated, I have had a wonderful career at CSULB! Were I to be given the opportunity to relive my life, I would choose the same career (with a few minor adjustments, of course). I estimate conservatively that I have taught 10,000 students. Teaching is a reciprocal activity; I have also learned from 10,000 students. I have tried to maintain some semblance of contact with a portion of the students, and it has been a source of tremendous satisfaction to see how successful they have been in their chosen work. Some are now retired, so that sends a message to me!

I have been asked how I managed to endure the chairmanship for so long. The answer is quite simple. The faculty and staff have been reasonable people, and we have worked together to achieve common goals in a collegial fashion and with a surprising amount of harmony. I owe my colleagues a debt of gratitude for their assistance and their patience with me, as well as for the chemistry I have learned from them.

Dr. Nail Senozan has been chosen by the faculty to be our next chair. He has had a distinguished career as a teacher, advisor, and scholar. Dr. Senozan has asked that I continue as editor of the *Newsletter*, in my work with the alumni and with the Student Affiliates of the American Chemical Society, and that I assist him with fund-raising activities.

There are some recent trends which have taken place in the department. Fewer of our students are opting for PhD programs. This is probably the result of the law of supply and demand at work. Our bachelor's and master's students are finding employment. However, fewer are being employed in aerospace and environmentally related jobs and more are finding employment in biotech and pharmaceutical industries. As can be seen from the statistical information given below, the undergraduate major of choice at present is the BS in Biochemistry. The department is becoming more interdisciplinary in its outreach as the articles on the new geochemistry laboratory and the immunology workshop in this *Newsletter* point out. Our majors population is becoming more culturally diverse as a glance at the list of graduates in the *Newsletter* shows. Increasing numbers of students are involved in undergraduate research, thanks in part to the MARC, MBRS and Howard Hughes grant programs. The research laboratories were a beehive of activity this past summer. It was wonderful to see our students so absorbed in and committed to their research projects.

More than a third of our faculty will be retiring within the next five or six years, and the department will be undergoing significant changes. The support of our alumni and friends will be more important than ever to the department as our needs increase with the advent of new faculty and constantly growing numbers of majors. Your past support has been of enormous help, and we hope that you will continue to think of us.

Some statistical information:

•**Graduating students.** A summary of this year's graduating class of 56 is given:

BA Chemistry	14	BS Biochemistry	32
MS Biochemistry	1	BS Chemistry	4
MS Chemistry	5		

•**Majors.** The department currently has a total of 310 majors, the most ever, distributed as follows:

BA Chemistry	43	MS Biochemistry	16
BS Chemistry	69	MS Chemistry	13
BS Biochemistry	169		

•**Alumni.** Through 1995 our department graduated 1,186 students: 953 bachelor's (104 Biochemistry, 849 Chemistry) and 233 master's (73 Biochemistry, 160 Chemistry).

Thanks to all of you for your letters, gifts, visits and suggestions. You are always welcome to come by for a visit, and perhaps your favorite professor will take you to lunch.

Sincerely, Ken Marsi

DR. F. SHERWOOD ROWLAND, NOBELIST: UNOCAL DISTINGUISHED LECTURER

by Cynthia Velting, Undergraduate Chemistry Student

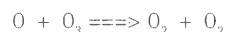
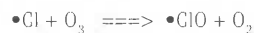
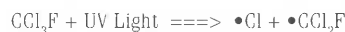


Dr. Sherwood Rowland, Nobelist and UNOCAL Distinguished Lecturer

Editor's Note: *The Chemistry/Biochemistry Department's Distinguished Visiting Lectureship was instituted in 1980 with Rachelle Laboratories as the sponsor, until 1987. In 1988 UNOCAL became the sponsor of this prestigious series. This year's UNOCAL Lecturer was Dr. F. Sherwood Rowland, Professor of Chemistry at UC Irvine and winner of the 1995 Nobel Prize in Chemistry for his work on the origin of the "ozone hole." He gave a talk to the university community on "Ozone Depletion" on April 17. Dr. Rowland is a recipient of many honors and several honorary degrees and is a member of the National Academy of Sciences. The following is a summary of his talk, prepared by an undergraduate student.*

Dr. Rowland's interest in atmospheric chemistry led him to the study of the relationship between chlorofluorocarbons and the depletion of the ozone layer. Chlorofluorocarbons, used as aerosol propellants, as refrigerants, in the manufacture of plastic foams, and for cleaning of electronic components, have found their way into the atmosphere, and then diffuse into the stratosphere where they are responsible for ozone depletion. The ozone "layer" protects the surface of the earth from the destructive effects of UV radiation.

The only significant removal process for these compounds is photochemical destruction in the stratosphere by solar ultraviolet radiation. In the ozone layer UV light splits ozone into O_2 and O , which then reform ozone. Dr. Rowland proposed that the exposure of chlorofluorocarbons to UV resulted in a highly reactive species which reacted with ozone, contributing to its depletion by the following reactions.



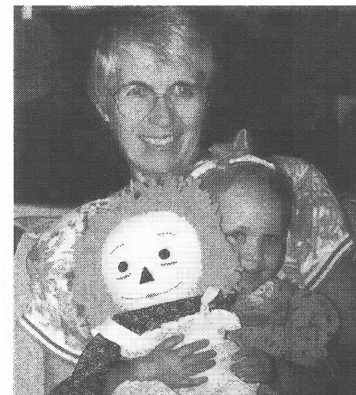
It is estimated that the ratio of chlorine atoms to ozone removed is 1:100,000, posing significant environmental concern. However, when presented with this information, the chemical and aerosol industries opposed stopping production of chlorofluorocarbons since the effect was not observed in the atmosphere.

In 1978 Dr. Rowland began testing the stratosphere in remote locations for the presence of chlorofluorocarbons (CFCs), where they were found reacting as predicted. After years of measuring ozone in the Antarctic, the loss of ozone was unequivocally ascribed to the presence of chlorofluorocarbons. Measurements showed the concentration of CFCs had increased by a factor of 5 since the beginning of the century.

Conclusions published in the *Report of the International Ozone Trends Panel* in 1988 resulted in a planned process to reduce production of CFCs, and as a result of this agreement, the rate of ozone depletion has been slowed.

During the course of his lecture he acknowledged the work of three CSULB Chemistry alumni who collaborated with him in his work on atmospheric chemistry: **Dr. Patricia Rogers (BS, 1978), Dr. Tyrell Smith (MS, 1986), and Van Woo, MD (MS, 1986).**

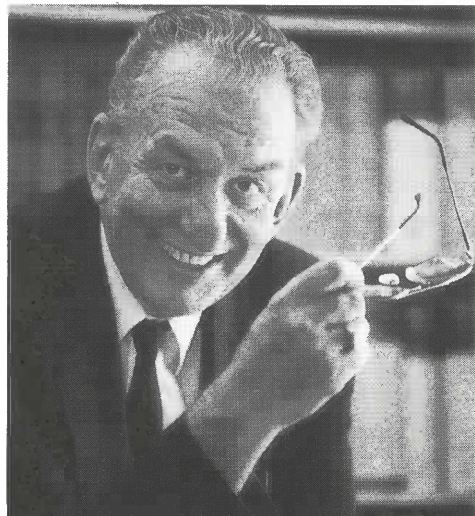
CAROL J HOLMES: 1927-1995



Carol Holmes and granddaughter

Carol J. Holmes, a part-time faculty member in our department during the 1960s, passed away on August 31, 1995. She earned her BS in chemistry *magna cum laude* and her MS in organic chemistry from the University of Washington. Her MS research was carried out under the direction of Professor Hyp Dauben in azulene chemistry. As a result of her outstanding scholarship, she was elected to Phi Beta Kappa and Sigma Xi. While at the University of Washington, she met her husband, William, a chemical engineering student. She is survived by her husband, who lives in Long Beach, three daughters, and 11 grandchildren. She was an active outdoorsperson and environmentalist and at one time was a member of the Long Beach Symphony Orchestra, playing piccolo and flute.

Ms. Holmes received her teaching certificate at CSULB, and following her distinguished part-time appointment in our department, she was hired as a chemistry teacher at Los Alamitos High School where she remained for 16 years before her retirement. Many of her well-prepared students were also students in our chemistry programs.

DR. GEORGE OLAH, 1994 NOBEL LAUREATE, VISITS CSULB**Dr. George Olah, Nobel Laureate**

Dr. George Olah, 1994 Nobel Laureate in Chemistry, was a guest of the College of Natural Sciences and Mathematics on March 27. Dr. Olah spent the day visiting with faculty and students and giving two lectures to the university community. Dr. Olah heads the Loker Hydrocarbon Institute at the University of Southern California where he is also Professor of Chemistry. He is internationally known for his work on the Friedel-Crafts reaction, superacid chemistry, carbocation chemistry, the chemistry of hypervalent carbon, and numerous applications of useful and significant new synthetic reagents and methods. The author of over 1,000 scientific papers, 100 patents and 15 books, he has received a variety of awards including the ACS Award for Petroleum Chemis-

try, the Roger Adam's Medal and the Award for Creativity in Synthetic Organic Chemistry. Dr. Olah is a member of the National Academy of Sciences.

His morning lecture was essentially a warning to society about its reckless use of petroleum resources. Petroleum, for all practical purposes, is a non-renewable

resource, and its depletion is occurring faster than new sources can be found. Eventually, deposits of oil from which petroleum can be practically recovered will all but disappear. At present there are no economically feasible alternatives to the use of oil, other than coal, which also is a non-renewable resource. We are living in a "fool's paradise," with escalating uses for oil and no plans in place to cope with the inevitability of its disappearance as a resource.

The afternoon talk was a more technical presentation of his work in superacid chemistry. His discovery of CH_5^+ and multiply charged cations such as H_4O^{++} and $\text{CH}_3\text{COH}^{++}$ in solution, and their reaction chemistry, was discussed.

One of our graduates, **Dr. Wai Man Ip, BS, 1976; MS, 1979** (PhD, USC), was a doctoral student of Professor Olah's.

MOLECULAR APPROACHES TO IMMUNOLOGY

by Roger Acey, Department of Chemistry and Biochemistry

Over the last several years, a number of other California State University faculty and I have been involved in a National Science Foundation-sponsored initiative known as the Undergraduate Faculty Enhancement Program. The goal of the program is to provide financial support for faculty to attend two-week laboratory intensive workshops focused on techniques with which they have little or no experience. The ultimate intent of the program is to remain in contact with the participants and provide the necessary support needed to help them incorporate these technologies into the curriculum at their institutions.

Three years ago we received an NSF award to fund seven workshops. This summer, Dr. Martin Jadus (adjunct professor in our department and a scientist at the Long Beach Veterans Administration Hospital), Ellen Teneriello (the CSULB Animal Facilities Coordinator), Virginia Ofstein (Baxter Healthcare, Inc.), and I taught a workshop titled "Molecular Approaches to Immunology." There were 11 participants in the workshop. Three were from out-of-state, two from the Bay Area and the remaining members from the Los Angeles area. We used a hands-on laboratory approach to show how immunologically based technologies can be used to answer fundamental questions in the basic sciences. The faculty gained experience in a number of techniques including the immunization and handling of rabbits and mice, the isolation, purification and modification of antibodies, and development of immunologically based assays such as ELISA and Western blotting. We had an excellent time and look forward to running the workshop again in the near future.

WHERE ARE THEY NOW?

We have been fortunate to have had the services of so many persons who made important contributions to our department over the years, but who, for various reasons, chose to continue their careers elsewhere. Some of them are remembered in this column. We would like to hear from others as well.

Dr. Annie Bianchino.

Lecturer 1981-84 and 1988-92, is Professor of Chemistry, Division of Natural Sciences at Fullerton College. In the spring of 1996, Dr. Bianchino assisted Dr. Roger Acey as a special lecturer in teaching a graduate course, Biochemistry of Nucleic Acids.

Dr. Isidore "Izzy" Goodman, Lecturer 1981-84, is Chair of the Chemistry Department at Pierce College in Woodland Hills.

Dr. Tom Goyne, Lecturer 1986-88, is Professor of Chemistry at Valparaiso University. "Next semester, four alumni have volunteered to help me with our biochemistry laboratory. Activities will include a field trip to Purdue for mass spectroscopy of proteins and a field trip to Northwestern for atomic force microscopy. It will be a wonderful experience for the students (and me)."

Dr. Margaret "Peggy" Kline, Lecturer 1984-88. "The official ground breaking ceremony for our new building is scheduled for September, 1996, with the actual construction due to start in January, 1997. We will have a new FT NMR (one of only two community colleges in the country to have one)."

Fran McLuen, Secretary 1975-92. "My husband, Chuck, retired from UNOCAL in June of this year."

Ursula Osborne, wife of the late Clyde Osborne, a faculty member in our department (1957-76), is a Peace Corps volunteer in New Guinea, teaching at Rosary Secondary School, Papua.



Dr. Richard E. Partch

Dr. Richard E. Partch, Visiting Lecturer 1980-81, is Professor of Chemistry at Clarkson University, and a member of the Center for Advanced Materials Processing. During 1996 he directed the work of two visiting professors (one from Italy and one from Iran), two postdoctoral associates, 10 graduate students and two undergraduates. He has in effect over \$1 million in research grant funding from 10 agencies. He is a specialist in particle technology.

Dr. Gwen Raine Shusterman, Assistant Professor 1987-89. "I am happily entrenched in a half-time tenure-track position at Portland State U. This allows time to be with my husband and two girls, ages 11 and 4. We love Portland and enjoy the many parks and outdoor activities. The whole family is involved in music and dancing. We don't miss living in Southern California, but do miss our family and friends. Life is busy, but good."

Celestine Tillman, Lecturer 1989-90, is an instructor at Southwest Community College.

RETIREMENTS

continued from page one

Dr. Lieu joined the department faculty in 1967. According to Dr. Lieu, "My decision to retire has not been an easy one. On the plus side, by retiring I will have more time to do things that I have always liked to do such as traveling, taking courses in art, history and computer applications. On the minus side, I am giving up my work as a full-time instructor, and I love and enjoy teaching. I have tried to teach with clarity and depth and make the subject matter taught relevant to students' every day life experiences. I find it a rewarding experience to see a student's eyes light up when I am able to make the unknown understandable."

Dr. Lieu received his BS in Chemistry from UC Berkeley and his PhD in analytical chemistry from the University of Hawaii. He is the author or co-author of 32 publications in the field of analytical chemistry and chemical education and has presented numerous papers at professional meetings.

Dr. Marsi became a faculty member at CSULB in 1961. He is a graduate (AB Chemistry) of San Jose State University

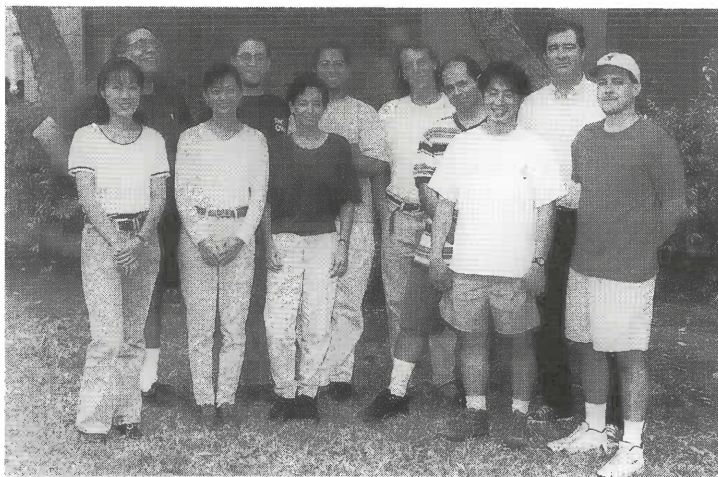
and received his PhD in organic chemistry from the University of Kansas. Following receipt of the PhD in 1955, he was employed as a research chemist by The Sherwin-Williams Co. in Chicago, Ill., working mainly with phthalocyanin synthesis and pigment processing. In 1957 he joined the faculty of Fort Hays Kansas State University as assistant and then associate professor where he remained until 1961. In 1967-68 he was a Visiting Professor at Rutgers University. Dr. Marsi is the author of 32 publications, the co-author of a book, author of over 60 book reviews, and has presented 40 papers at scientific meetings. He has received a total of nearly \$1 million in grants from agencies such as the NSF, NIH and Petroleum Research Fund. Sixteen graduate students received master's degrees under his guidance. In 1984 he was named University Outstanding Professor, and then statewide Trustees Outstanding Professor in 1985. He received the TRW Distinguished Professor Award, and was twice the recipient of the College of Natural Sciences and Mathematics Mayfield Outstanding Professor Award. He has served as the chair of the Department of Chemistry and Biochemistry since 1975.



Dr. Kenneth L. Marsi, Emeritus Professor, and Julie Weidler (BS, 1996) at Annual Awards Luncheon.

REPORTS FROM FACULTY AND STAFF

(Editor's Note: *If information about your favorite professor or staff member is not included in this column, it's because, after entreaties by the editor, the faculty or staff member did not submit material for the Newsletter.*)



Dr. Roger Acey's biochemistry research group. Left to right: Jennie Hong, Dr. Roger Acey, Hong Ma, Jeffrey Selander, Joy Chacon, Jason Atalla, John Cashman, Monty Badger, Quoc Ta, Eric Stevens, Burt Secrest.

Roger Acey. "The 'student density' within the lab still remains relatively high. The newest members of the lab include Joy Cacon, Quoc Ta, Hoang Nguyen, Jeffrey Selander, Jason Atalla, Jennie Hong, Hong Ma, Eric Stevens, Andrew Jun and Li-Li Hish. Joy, Quoc and Jeff are Howard Hughes Scholars. Jason, Jenny, Hoang, Andrew, Eric and Li-Li are new graduate students. Hoang is a recent graduate of the department. He, Quoc, Abby Venkatesh (from Brown U) have been studying the effects of copper and cadmium on metallothionein expression in *Artemia*. Chang Jo is assisting us with our studies on metallothionein expression in lymphocytes. Ann Bui and John Kim, both high school students, joined the lab this summer and are helping us with several of the *Artemia* projects. Monty Badger is identifying nuclear glycoproteins while Hoang and Patty (Stanford U), are attempting to identify specific nuclear polymerases and kinases.

Fred Valle is spending the summer at Purdue as a MARC scholar. Jenny, Andrew, Jason, Jeffrey and Anna Concepcion (a MARC Scholar) are working on the problem of phthalate ester toxicity in *Artemia*.

"Burt Secrest is finishing his thesis research and will begin writing this summer. John and Joy have been isolating bacteria resistant to

high levels of heavy metals such as copper, cadmium and chromium. Our goal is to develop these organisms for bioremediation of sites contaminated with these metals. Tom Kelly is now looking at the effects of different carbon sources on protein expression in an organism using organosulfur compounds as a sole sulfur source.

"I am happy to report that Stephen Espitia and Brent Harpham are close to completing the writing of their theses. Conrad Winn and Stephen Parker both graduated this year with MS degrees in Biochemistry, and are gainfully employed. Mike Mustillo, a high school science teacher and our resident volunteer (he has been with us for 12 years), has begun work on the lymphocyte project. He is developing a technique known as differential display which will let us see differences in gene expression in these cells. I can never say enough about his devotion to the lab and overall support of science education.

"We are supported by the NIH AREA, MBRS and MARC programs, BioLogics, Inc. Pacific Laboratories, Inc. and the NSF Faculty Enhancement Program. I taught a workshop this summer titled 'Molecular Approaches to Immunology.' Finally, as Co-PI with two members of the Geological Sciences Department, we were awarded \$20,000 from the ARCO Foundation to support our new Geo-chemistry Laboratory. Both John Cashman, an undergraduate, and Jason Atalla, a graduate student, were awarded ARCO Fellowships."

Dennis Anjo. "My students and I have been tenacious in unlocking the secrets of carbon electrodes.

"Byron Rivera (BA 1995) developed a procedure for activating glassy carbon in bicarbonate solution. Kaiser Estrada (BS 1995) worked on the pH-potential relationship for carbon electrode activation.

"Continuing students include Ingrid Hidalgo, a McNair Scholar, who is working on the effect of ionic conductivity on background current at carbon electrodes; and Adam Butler, who has discovered that aprotic solvents lower the background current at carbon electrodes.

"Master's students are Eric Barron, who worked on background current components at the carbon electrode and received his MS in August, 1995, and Keith Bogdon who finished his project on the detection limits for carbon electrodes in chromatography. Keith entered law school this fall."

Jeff Cohlberg. "Lecturer Bob Gelfand and I successfully put 29 students through Chem 443, the biochemistry lab course. It was a challenge to offer two sections simultaneously for the first time.

"Our lab published a paper this year by Teresa Streifel (BS Biochemistry, 1994), along with former graduate student, Roy Avalos and myself, titled 'cAMP-dependent phosphorylation of neurofilament proteins NF-L and NF-M

inhibits their coassembly into filaments *in vitro*' [*Biochem. Biophys. Res. Comm.* **222**, 646-651]. Teresa's carefully executed study of the assembly properties of phosphorylated NF proteins formed the basis for the paper. My upcoming review in *Advances in Cell and Molecular Biology* is still...well, upcoming.

"Alireza Ansari completed his thesis describing some beautiful work on the assembly properties of recombinant NF proteins, suggesting that both rod and tail domains play a role in determining which NF proteins combine with each other. Paul Darby has solved some difficult technical problems, mastering the technique of Fourier transform infrared spectroscopy of proteins, and has begun the examination of phosphorylated and dephosphorylated NF proteins by this method. Graduate student, Anne Simonsen, and undergraduates, Lenore Landis, Michael Onoh, Ihab Abumuhor, and Paula Spencer, are all working on various aspects of our assembly studies."

Dorothy Goldish continues her valuable work for the university. She has written a substantial portion of the new faculty handbook, represented the College of Natural Sciences and Mathematics on the important Academic Advising Council, chaired the Performance Salary Step Increase Committee (who gets raises?), and has continued to participate on the Western Association of Schools and Colleges accreditation teams.

Van Lieu. See the article on retirement found elsewhere in the *Newsletter*.

Robert Loeschen continues as an Associate Dean of the College of Natural Sciences and Mathematics. He is in charge of maintenance and improvements for the college's physical facilities, a difficult job due to the buildings' aging state.

Marco Lopez. "This year we say goodbye to Julia Weidler, who completed her BS degree in Chemistry. Julia ran successful computer simulations of a series of heme model compounds. Her work was presented at scientific meetings and will soon be submitted for publication.

"We welcomed to the group graduate student, Nancy Gardner, and undergraduate students, Jose "Charley" Ramirez and Daxa Kurani. Nancy's project is to measure the carbon monoxide binding constant to an iron porphyrin (heme) in different solvents, including dimethyl sulfoxide, water and dilute aqueous soap solutions. Charley's project is to synthesize heme model systems. He is working closely with graduate student, Daniel Ponce. Daxa has taken over Julia's responsibilities, and will be carrying out computer simulations of solvated systems. Previously, our molecular dynamics calculations did not include explicit solvent molecules. Andrew Strelzoff, an undergraduate, will install and compile the solvation code this summer.

"It was a pleasure to visit with and present the work of my students to the chemistry departments at Cal State Los Angeles and the University of San Diego last year. In addition, it was an honor for me to chair a session of the Teddy Traylor Memorial Symposium on Metalloporphyrin Chemistry at the fall meeting of the ACS in Chicago last August. Teddy Traylor was my PhD advisor and a paradigm of the modern scientist.

"President Robert Maxson has appointed me director of the Minority Biomedical Research Support Program. As director, I supervise some 25-30 students working on research projects with 12 faculty in the Departments of Biological Sciences, Psychology, and Chemistry and Biochemistry. The goal of the program is to foster participation of minorities in competitive biomedical research at the PhD level. I am also the CSULB contact person for the National Institutes of Health, which is the funding agency for this program."

Ken Marsi. "I was a reviewer for the chemistry program at Cal State Sacramento this past year. I enjoy visiting other departments; there are always new ideas to bring back to my own department. I also served as chairman of the Dean Search Committee for recruiting a new dean for the College of Natural Sciences and Mathematics. I was honored to be voted by the student body of the college to receive the Natural Sciences and Mathematics Outstanding Professor Award (the Mayfield Award). The chemistry and biochemistry students also designated me to receive the Outstanding Lecturer Award for the department. In July I participated with 19 other faculty advisors from across the United States in the Students of the American Chemical Society peer-review conference. The purpose of the conference was to provide the ACS with recommendations in evaluating Student Affiliate chapter annual reports and mini-grant proposals."

Darwin Mayfield, who retired in 1990, continues to enjoy a variety of volunteer activities. These include twice-monthly presentations in Long Beach public schools (4th-6th grades) sponsored by the El Dorado Park Nature Center, organizing a monthly forum for High School Chemistry Teachers (soon to start its seventh year), teaching a section of the freshman orientation course (University 100) for entering freshmen, and service in the University Academic Senate as representative of the Emeriti and Retired Faculty Association (ERFA).

A year ago an oral history project sponsored by the CSULB Foundation resulted in the production of 106 30-minute videotapes featuring interviews of retired faculty members and administrators. Darwin has edited these tapes to produce a 34-minute program of bites, ranging from 5 to 25 seconds, which was shown at a regular program of ERFA.

Margie Merryfield. "Congratulations to my undergraduate research students on their graduation: Dao Lim, Hoa Trinh, Lena

Sripitisawad, Jay Kim and Brett Moore! Dao will continue in the MS program in Biochemistry. The others are either recently or soon-to-be employed. New faces in the lab are Kolannage Perera (Vaji), Thuy Nguyen (Julie) and Dzoanh Do, who is a Howard Hughes Fellow. They are currently engaged in finding out how a multi-enzyme complex behaves when it is 'crowded,' and what happens to its regulation.

"I just finished a year as undergraduate advising coordinator, a rewarding (if time-consuming) pursuit. It has given me an appreciation of just how complex an institution this size is to navigate. It has also introduced me to lots of students and their stories, the best part of the job.

"Our son, James, was a 'mathlete' for Hughes Middle School. James led his team to first place in the regional MathCounts contest, and went on to finish first in the state meet at UC Irvine. As a result of his victory, James and three other children were selected for the state team. The national contest was held in Washington, D.C., where he finished 15th overall (the highest finish by a Californian) and led the team to an overall 4th place."

Ken Nakayama is away on sabbatical leave at UC Irvine with Professor Chamberlin for the 1996-97 academic year. In addition to research collaboration with Dr. Chamberlin, he will help with the undergraduate organic laboratory program at UC Irvine.

Bruce Prins is a member of our part-time faculty and is also a research scientist at the Long Beach Veterans Hospital. "I finished my thesis work in Pharmacology from UC Irvine in 1992 and have been conducting cellular/molecular research at the VA Hospital in Long Beach. I've been involved in studies aimed at understanding the role of vasoactive compounds, such as estrogen and C-type natriuretic peptides, in the inhibition of cardiovascular cell proliferation. These molecules

appear to have a protective role against cardiovascular disease, and these studies should help to delineate their mechanisms.

"I've been teaching in the department for three semesters, and I have been impressed with the quality of both faculty and students."

Henry Po. "My research students are distinguishing themselves. Kenny Huang (MS Chemistry, 1995) is now at UC Santa Barbara doing theoretical chemistry with Professor Parky. Davide Tenaglia (MS Chemistry, 1996) is attending law school at the U of Arizona this fall; Silverio Arano (BS, Biochemistry, 1996) is planning to attend medical school. Two of Dr. Jensen's graduate students, Dawn Leopardo and Leticia Arellano-Summer, have been under my guidance since last year. Dawn completed her MS thesis in December, 1995, and is presently attending Chicago College of Osteopathic Medicine. Leticia will finish writing her thesis this summer.

"New students who have joined my group are Thach Ho, Huilin Huang and Ted Nguyen. They are doing research in electrosynthesis of sulfur compounds and kinetics of transition metal complexes containing macrocycles."

Nail Senozan has a paper, coauthored with **Jerry Devore**, titled, "Carbon monoxide poisoning," which appeared in the August, 1996, issue of *J. Chem. Educ.* Student, Mike Christiano, and he had a paper, "Iron as nutrient and poison," accepted for publication in *J. Chem. Educ.*

Bob Soukup. "This will be my 21st year with the department. This past year I hard-wired Dr. Lopez's lab and my office to the Internet, and I am in the process of assembling a World Wide Web server for the department. Soon I hope to have a Web page available for each faculty and staff member in the department. (My Web address is <http://www.csulb.edu/~rsoukup/>). I continue to keep

Continued on page twenty-one

STUDENT AFFILIATES OF THE AMERICAN CHEMICAL SOCIETY

by Kyle Findly, President 1995-96

The Student Affiliates of the American Chemical Society had another active year, carrying out our traditional activities and events as well as creating new ones, such as our high school tutoring program. SAACS made it a goal to provide social gatherings which promoted student/faculty interactions. All of our activities and events were funded by profits resulting from selling safety equipment (goggles and lab aprons) and molecular models. Our activities and events are briefly summarized.

SOCIAL ACTIVITIES

Coffee and Donut Hour.

Every Friday morning, students and faculty gather for coffee, donuts, bagels and orange juice provided by SAACS. This is a popular social activity; some faculty even hold their office hours with students during the coffee-donut hour. This event plays a key role in increasing interaction between faculty and students.

First Annual Softball

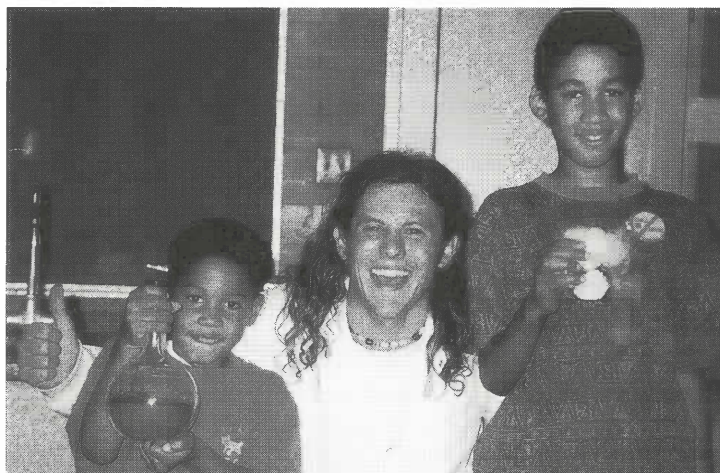
Game. We sponsored the first annual softball game/barbecue against the Biology Student Association. It was a close game until the last two innings when we pulled ahead to win by eight runs!

Fall Bash. This student/faculty mixer also promoted interaction with other science departments and was co-sponsored by the College of Natural Sciences and Mathematics. Activities such as a live band, dancing and a pinata contributed to the success of this event.

Winter Party. This event took place at the SAACS president's house where six-foot subs and drinks were served. Music and dancing created a perfect setting for the most highly attended winter party in years.

ACS National Meeting. As president of SAACS, I attended the ACS National Meeting held in New Orleans to accept the Commendable Chapter Award for 1994-95. I also interacted and exchanged ideas with other affiliates from various universities at ACS social functions.

Annual Spring Party. The party was held at Dr. Ken Marsi's house in Dana Point, which



Kyle Findly (center), president of the Student Affiliates. Kaleidoscope participants: Jamati Roberts (left) and J.T. Roberts (right).

provided a perfect setting for the occasion. The event started with beach activities followed by a fun-filled barbecue which included a watermelon-eating contest.

Awards Luncheon. Fifteen students received 18 awards from the Chemistry/Biochemistry Department and new SAACS officers were announced. This year's Outstanding Lecturer Award was presented to Dr. Ken Marsi. About 75 people attended the luncheon held at Avenue #3 Pizza where pizza and beverages were served.

SPEAKERS AND TOURS

Summer Research Opportunities. To help students interested in research careers, three students who participated in past summer research programs advised fellow students on how to go about applying for such internships. We distributed material on current National Science Foundation - Research Experience for Undergraduates (NSF-REU) programs for the

summer of 1996 and placed a copy in the department office, making it readily available for all students.

Dr. Richard Bozak from Cal State University, Hayward, presented a program on the life and times of the celebrated synthetic organic chemist, Dr. Robert Woodward, past Nobel Prize winner.

Cheryl Mock, a member of the department's Advisory Council and employee of Lab Support, lectured on how to write resumes and prepare for interviews. She informed the students that her company had available employment.

Forensics Lab Tour. In late November we sponsored a field trip to the Los Angeles Sheriff's Crime Laboratory to see what is done in the different departments of the Crime Laboratory. Information on internships was given to those students interested in forensic science.

Budweiser Brewery Tour. In April we sponsored a field trip to the Anheuser Busch Brewery

in the San Fernando Valley. We walked through each section of the plant, learning each step of the beer-making process, from fermentation to packaging, including a tour through the chemistry laboratories.

COMMUNITY SERVICE

Kaleidoscope is a festival on campus whose purpose is to bring the university and community together. To get involved in this festival, our members performed a chemistry show aimed at inspiring youth to pursue studies in chemistry. Five shows were given with over 150 people attending each show. At the end of each, many parents and children commented on how much they enjoyed the program; and we were even asked to take our show "on the road" to some local elementary schools.

Tutorial Program.

Throughout the academic year, a group of affiliates tutored chemistry high school students (regular/honors) at Wilson High School in Long Beach. We received positive feedback from the teachers and plan to continue and expand this tutoring program in the coming year.

NEW OFFICERS

Maria Avina will be the new president for the 1996-97 academic year. Other officers are vice president, Steve Kraatz; treasurer, Paula Spencer; secretary, Christine Dierickx; publicity director, Doug Huntley; directors of activities, Lenore Landis and Marcy Abbett.

CSULB STUDENT AFFILIATE CHAPTER RECEIVES HONORS...AGAIN!

For the second consecutive year the CSULB Chapter of the Student Affiliates of the American Chemical Society received recognition as a Commendable Chapter from the national office of the ACS. The award was based upon the variety, scope and quality of activities sponsored by SAACS during the preceding year, and the award was announced in *Chemical & Engineering News* and in *Chemistry*, the Student Affiliates magazine. SAACS Chapter President, Kyle Findly, a BA Chemistry major, was present to receive the award, a permanent plaque, at the ACS National Meeting in New Orleans in March. In 1995 the chapter was given a similar award at the National Meeting in Anaheim. Approximately 20 chapters are chosen annually for such recognition from among 850 SAACS chapters with a membership of 7,500 students. The chapter was again honored in May at the 1996 Education Awards Dinner of the Southern California Section of the ACS held at Cal State Los Angeles. Present to receive the section award were student officers, Kyle Findly, Maria Avina, Lena Sripitisawad, and Dr. Ken Marsi, Advisor.



Commendable SAACS Chapter Representatives. Front row, CSULB: Dr. Ken Marsi, Chapter Advisor; Kyle Findly, President; Maria Avina, President Elect; Lena Sripitisawad. Back row, Cal State Dominguez Hills: Dr. Sophia Pappatheodorou, Chapter Advisor; Elyas Balta, Chapter President.

CURRENT ACTIVITIES OF SOME OF OUR 1995-96 GRADUATES

Silverio Arano, BS Biochemistry
Eric Barron, MS Chemistry
Paul Belanger, BS Biochemistry
Ali Borazjani, BA Chemistry
Trinh Chau, BS Biochemistry
Thinh Van Dinh, BS Chemistry
Dzoanh Hua Do, BS Biochemistry
Kaiser Estrada, BS Biochemistry
Iris Galanis, BS Biochemistry
Manna-Noel Ganay, BA Chemistry
Dana Gilchrist, MS Biochemistry
Efrain Gonzalez, BA Chemistry
Brenda Guigli, BA Chemistry
Nadine Haddad, BS Biochemistry
Michael Hall, BA Chemistry
Jason Haughton, BS Biochemistry
Kenneth Huang, MS Chemistry
Tim Jones, BA Chemistry
Jeff Knight, BS Biochemistry
Manfred Kunze, BS Chemistry
Jennifer Lee, BS Biochemistry
Dawn Leopardo, MS Chemistry
Dao Lim, BS Biochemistry
Jennifer Lin, BA Chemistry
Robert Mangham, BS Biochemistry
Steve Mihatov, BA Chemistry
Brett Moore, BS Biochemistry
Hoang Nguyen, BS Biochemistry
Thomas Nguyen, BA Chemistry
Tuan B. Nguyen, BS Biochemistry
Patrick Pak, BS Biochemistry
Darlene Phan, BA Chemistry
Minh Phan, BS Biochemistry
Arash Rastegar-Panah, BS Biochemistry
Hossein Razavi, MS Chemistry
Soida Lena Sripitisawad, BS Biochemistry
Davide Tenaglia, MS Chemistry
Hoa Trinh, BS Biochemistry
Julie Trombley, BS Biochemistry
Juli Vincent, BS Biochemistry
Jeffrey White, BS Biochemistry
Gholam-Reza Zarrinnegar, BS Biochemistry
Mohammed Reza Zarrinnegar, BS Biochemistry

MS Chemistry Program, CSULB
 Lab Support, Costa Mesa
 Harbor-UCLA Hospital, Torrance
 Wall Street Real Estate Mortgage, Costa Mesa
 Rockwell International Corp., Newport Beach, Calif.
 PGP Industries, Inc., Santa Fe Springs
 Pharmacy School, U of the Pacific
 Amgen, Thousand Oaks, Calif.
 MS Food Science Program, Chapman University
 Prestige Station, Inc., ARCO, La Palma, Calif.
 Farm School, Irvine
 Teacher, Los Angeles Unified School District
 Lucky Markets
 Venus Laboratories, Huntington Beach, Calif.
 Applied P & CH Laboratory, Chino, Calif.
 Chevy's, Irvine
 PhD Program, UC Santa Barbara
 Huntway Refineries, Wilmington, Calif.
 Lab Support, Costa Mesa
 MS Computer Science Program, CSULB
 Bachem, Torrance
 Chicago College of Osteopathic Medicine, Chicago, Ill.
 Biochemistry Program, CSULB
 Pharmacy School, USC
 Service Warehouse
 City of Seal Beach, Finance Dept.
 Lab Support, Costa Mesa
 MS Biochemistry Program, CSULB
 Del Mar Analytical Laboratories, Colton, Calif.
 Ross Medical College, Dominica, British West Indies
 Ross Medical College, Dominica, British West Indies
 International Rectifier, Los Angeles
 Allergan, Inc., Irvine, Calif.
 Dental School, Medical College of New York
 PhD Program, U of Arizona
 Abbott Laboratories, South Pasadena
 Law School, U of Arizona
 Sierracin, Sylmar, Calif.
 MS Program, Biological Sciences, CSULB
 Integrated Genetics, Long Beach
 Genzyme Medix, San Francisco
 Applying to Medical School
 Applying to Medical School

HONORS TO 1995-96 CHEMISTRY AND BIOCHEMISTRY GRADUATES AND CONTINUING STUDENTS

Ihab Abumuhor	Howard Hughes Awardee; President's List; Election to Phi Lambda Upsilon	Tai M. Le	President's List
Silverio Arano	American Institute of Chemists Baccalaureate Award; David L. Scoggins Memorial Award; Chemistry Alumni Award; Outstanding Graduating Student; Howard Hughes Awardee; Election to Phi Lambda Upsilon	Dao S. Lim	Dean's List
Leticia Arellano-Summer	Robert B. Henderson Memorial Award	Jason T. McEachran	President's List
Neary Arpajirakul	Dean's List	Anthony Medak	Howard Hughes Awardee; MARC Scholar; Election to Phi Lambda Upsilon
Jason Atalla	Election to Phi Lambda Upsilon	Christopher J. Milne	Dean's List
Michael Aye	Biochemistry Award; Chemistry Alumni Award; Hewlett-Packard Award	Jawdat Muhmed-Hussein	Spyros Pathos IV Memorial Award; Hewlett-Packard Award; President's List
Monty R. Badger	Election to Phi Lambda Upsilon	Lam H. T. Ngo	Dean's List
Paul Belanger	Election to Phi Lambda Upsilon; President's List	Hoang Nguyen	California Foundation for Biochemical Research Summer Fellowship
Keith Bogdon	Graduate Dean's List; Election to Phi Kappa Phi	Huyen-Trang Nguyen	President's List
Gina M. Candelaria	Freshman Chemistry Award (CRC Handbook); Chemistry Alumni Award; Hewlett Packard Award	Thien B. V. Nguyen	Merck Award in Organic Chemistry; Chemistry Alumni Award; Hewlett-Packard Award; President's List
Martin Costello	American Chemical Society Polymer Award; Golden Key Award; Chemistry Alumni Award; President's List	Truong Xuan Nguyen	Dean's List
Domenica Devine	John H. Stern Memorial Award in Physical Chemistry; Hewlett Packard Award; Howard Hughes Awardee; Election to Phi Lambda Upsilon; President's List	Michael Ohannesian	Dean's List
Vinh Quang Dinh	Dean's List	Patrick Pak	Dean's List
Dzoanh H. Do	Howard Hughes Awardee; Election to Phi Lambda Upsilon	Abu Samra Salaimah	President's List
Anh Trang Doan	Howard Hughes Awardee	Burt Secrest	California Foundation for Biochemical Research Summer Fellowship
Hanh Thi Doan	President's List	Jeffrey Selander	Howard Hughes Awardee; Election to Phi Lambda Upsilon; President's List
Kyle Findly	Toni Horalek Award; Chemistry Alumni Award; Golden Key Award	Nancy Wissa Shenouda	Howard Hughes Awardee; Dean's List
Iris Galanis	Dean's List	Paula Spencer	President's List
Mirta Gaus	Howard Hughes Awardee; Election to Phi Lambda Upsilon; Election to Phi Kappa Phi; President's List	Sopid Lena Sripitisawad	Department Honors; Chemistry Alumni Award
Van W. Goodrich	Dean's List	Freedom I. Stanfield	Dean's List
Jason R. Haughton	Election to Phi Beta Kappa; Analytical Chemistry Award; Chemistry Alumni Award; Robert Rhodes Memorial Award; Hewlett-Packard Award; Departmental Honors; Election to Phi Lambda Upsilon	Ryan T. Suemoto	Dean's List
Stacy Ann Henigsmann	President's List; Election to Phi Kappa Phi	Quoc Ta	Merck Award in Organic Chemistry; Chemistry Alumni Award; Howard Hughes Awardee; Hewlett-Packard Award; Brotman Scholarship; President's List; Election to Phi Lambda Upsilon
Ingrid C. Hidalgo	Dean's List	Davide Tenaglia	American Institute of Chemists Graduate Award; Chemistry Alumni Award
Janet L. Hunting	President's List	Mimi My Tran	Howard Hughes Awardee
Ngoc Huyen Thi Ho	Dean's List; Lab Support Scholarship	Hoa B. Trinh	President's List
Hee-Jung Jenny Hong	Election to Phi Lambda Upsilon	Tra My Vo	Dean's List
Huilin Huang	Advisory Council Tuition Scholarship	Jason M. Yano	Dean's List
Jennifer Hueston	Howard Hughes Awardee	Julia Weidler	Hypercube Award; Dean's List
Gail Ann Jones	Howard Hughes Awardee; Election to Phi Lambda Upsilon; Election to Phi Lambda Upsilon; Dean's List; Election to Phi Kappa Phi	Leonard J. Wheeler	President's List
Timothy M. Jones	Dean's List	Steve M. Wiggs	President's List
Mathew Koutroulis	Howard Hughes Awardee; Election to Phi Lambda Upsilon; President's List	John G. Yeung	Election to Phi Lambda Upsilon
Rebecca S. Kuhse	Dean's List	Suyin Young	Dean's List
Simon Kung	Merck Award in Organic Chemistry; Chemistry Alumni Award; Hewlett-Packard Award; Election to Phi Lambda Upsilon		
San Ky	Dean's List		
Lenore Landis	Biochemistry Award; Chemistry Alumni Award; Hewlett-Packard Award; Howard Hughes Awardee; Election to Phi Lambda Upsilon; Election to Phi Kappa Phi		

GIFTS BY INDIVIDUALS

The faculty, staff and students of the department wish to thank all of the individuals who supported the programs of our department this past year. Donors are listed on the next page. As in each of the previous years, we received a record number of gifts. Alumni and friends of the department gave gifts valued at \$35,924.48 (\$30,724.48 in cash and \$5,200 in in-kind gifts of supplies). Cash gifts received are used for scholarships, awards and purchase of supplies and equipment for which there is not adequate state funding. You may give an income tax deductible gift directly to the department by making a check to:

CSULB Foundation/Chemistry Fund
Department of Chemistry and Biochemistry
California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840-3903

The Office of University Relations and Development is informed of all gifts, and you will receive a personal letter of acknowledgement from the department. You might investigate the possibility that your company matches employee gifts. In that way the value of your gift to the department is increased.

If you are contacted through the Phonathon program and a gift is requested, please specify the Chemistry and Biochemistry Department as the recipient of your gift, if that is your intention.

CHEMISTRY RECEIVES GRANT FROM ALUMNI ASSOCIATION

As a result of a successful grant application from the department to the CSULB Alumni Association, the department received \$1,000 to purchase lecture aids, including two periodic tables for classroom use, two sets of large molecular models for lecture demonstration, an extended NaCl crystal structure and a variety of crystal lattice models. This year the association distributed \$8,000 in grants to departments and programs in the university. The department would like to take this opportunity to express its thanks to the Alumni Association for these valuable teaching adjuncts.

CORPORATE GIFTS TO THE DEPARTMENT

Gifts from business and industry amounted to \$69,370.25, and included \$14,712.79 in cash and \$54,657.46 in in-kind gifts of equipment, supplies and services. Included in the major items of equipment received were computers from American Honda; a gas chromatograph and recorder and two ion chromatographs from Rockwell International; an atomic absorption spectrometer from TRW; calculators for student awards from Hewlett-Packard; and HyperChem Software from Hypercube. We wish to thank the following donors for their generous support of our programs:

American Honda Motor Co., Inc.*
Baxter Healthcare*
Beckman Instruments*
BioConsumer Review
Brinkman Instruments
CRC Press
CSULB Alumni Association
Forty-Niner Shops
Hewlett-Packard*
Hughes Aircraft*
Hypercube, Inc.
Lab Support*
McDonnell Douglas Foundation*
Merck & Co.
National Starch and Chemical Foundation (Ablestik Labs.)*
Niklor Chemical Co., Inc.
Rockwell International*
Sigma Chemical Co.
TRW*
UNOCAL Foundation

Matching Gifts were received from the following companies (employees whose gifts were matched are given in parentheses):

American Honda Motor Co., Inc. (Jeffrey Jetter)*
ARCO Foundation (Jerry Aspland)*
Hughes Aircraft (William Garrigues)*
MacDonald's Corp. (Christopher Appleton)
McDonnell Douglas Corp. (Norman Byrd, PhD)*
Nalco Chemical Co. (Per B. Christiansen)
Rhone-Poulenc (Stephen Castellino, PhD)
TRW (Kent Showman)*

*Companies are members of the Chemistry and Biochemistry Advisory Council

HONOR ROLL OF INDIVIDUAL CONTRIBUTORS (JULY 1, 1995-JUNE 30, 1996)

Patricia T. Abe
 Roger Acey, PhD
 John & Deborah Allison
 Dennis Anjo, PhD & Florence Butler
 Lance Arakaki, DMD
 Jerry A. & Carol A. Aspland
 Peter Baine, PhD
 Michael P. Baker, PharmD
 Daniel S. Bernier
 Arnold J. Berry, PhD
 J. S. & Prabha J. Bhalla
 Robert K. & Susanne Blair
 Susan E. Boggs, PhD
 Reid Bowman, PhD
 Walter Boyle, MD & Allyson Boyle
 Susan Brentnall
 Elizabeth Brinkman, PhD
 & Gregory Scott, PhD
 Betty J. Burri, PhD
 Norman R. Byrd, PhD
 Victor V. Cachia, DPM
 A. R. & L. J. Calloway
 Juan A. Campos
 Margaret A. Carlberg
 Kelly G. Carroll
 Ronald H. & Kathleen R. Carroll
 Stephen Castellino, PhD &
 Nancy Castellino
 Lori J. Childres, MD &
 David R. Sydow, PhD
 Larry P. Clarke
 John Cole, MD
 Melanie R. Concepcion-Gonzalez
 Larry B. Copeland
 Roger & Kathleen Coulter
 Alan Cunningham, PhD
 Robert L. Curiale
 Violeta D. Dadufalza
 Johnny Deblock
 James & Gerrye Lynn de Olden
 Eric & Gretchen Derbyshire
 Thang D. Dinh
 Fred H. Dorer, PhD & Marilyn P. Dorer
 Gregory J. & Lorna G. Dorsman
 Harutyun Eran, PhD
 Danny K. Fong
 Daryl M. Fukuda
 Dipa & Bhavin Gandhi
 Ronald Garber, PhD
 Donald E. Garrett
 Beverly J. Garrigues
 William C. Garrigues
 Victor Gearhart
 Akram Ghamssari
 William L. Gibbons
 Dorothy Goldish, PhD &
 Elihu Goldish, PhD
 Isadore Goodman, PhD
 Thomas E. Goyne, PhD &
 Cheryl B. Goyne, MD
 Alexander C. Greer

Louise Grigoleit
 Annette & Daniel Guerrero
 Scarlet Hamamchian
 Glen R. Harding
 Thomas Harmon, MD & Beth Harmon
 Margaret Ann Hohly
 William H. Holmes
in memory: Carol J. Holmes
 Donald Honda, PharmD
 Jeffrey K. Ichikawa
 Thomas I. Ito, PhD
 Jeff & Pamela Jetter
 Alan M. & Diane S. Johnson
 Clyde C. Jones
 Paul Jordan, MD & Richelle K. Jordan
 Gene E. Kalbus, PhD
 Jeffrey S. Kaplan
 Marc Kasner, PhD
 Birjees Khawar
 Byeong-Deok Kim & Byong-Min Kim
 Tina M. Kishishita, PharmD
 Jack Kittrell
 Larry D. Klein
 Margaret Kline, PhD
 Ralph J. Knights, PhD &
 Jacquelyn K. Knights
 Shelly Kumar, PhD
 Luda Kuprenas
 Katherine C. & Richard Kurjan
 Pete Ladjimi, Jr.
 Jennifer M. Lee
 John E. & Winifred Leeb
 Edward R. Levy, PhD &
 Jeanne E. Levy, PhD
 Edward M. Lieskovan, PharmD
 Van T. Lieu, PhD & Allison Lieu
 Charles F. Lindeman
 Rebecca Lizardi
 Robert Loeschen, PhD
 Timothy Mac Andrew
 Robert D. MacPhee, Jr., PhD
 Robert Maiden
 Tom J. Maricich, PhD &
 Suzanne A. Maricich
 Debra Marr-Leisy, PhD & William Leisy
 Kenneth Marsi, PhD, & G. Irene Marsi
in memory: Carol J. Holmes
 Kenneth Marsi, PhD, & G. Irene Marsi
in memory: Clyde E. Osborne
 Kenneth Marsi, PhD, & G. Irene Marsi
in memory: James L. Jensen, PhD
 K. Scott and Linda H. Marsi
 Marianne Marsi, PhD
 & Lewis E. Manring, PhD
 Darwin Mayfield, PhD
 & Norma Mayfield
 Patrick & Mary McKay
 Charles A. & Frances M. McLuen
 Dana Marie Melton
 Dorothy H. Middleton
in memory: Robert B. Henderson, PhD

Mary B. Milkovich
 Sonia Molina, DMD, MPH
 William R. Moody, MD & Ana V. Moody
 David Moromisato, MD
 & Laura S. Awazu
 Michael Muegge
 Michael Mustillo
 Joanne A. F. Myers
 Donna Nagata, DDS
 Jim Neely, DO & Terri Neely
 John Nelson, JD
 Richard Nighswonger
 Stuart Nowinski
 Raymond E. Ouelette
 Richard C. Parker, PhD
 Arie A. Passchier, PhD &
 Deanna Passchier
in memory: John Stern, PhD
 Melanie M. & Rod A. Patterson
 Donald Peterson, PhD
 James Peterson
 Mark C. Phillips, DDS
 Robert & Patricia Proffitt
 Christopher A. Reed, PhD
 Kent A. Rianda
 William I. & Joan E. Rogers
 Theresa M. B. Rohr-Kirchgraber, MD
 Robert Rona, PhD & Rebecca Rona
 Mike C. Rose
 Frank J. & Dorothea-Ann Rzasa
 Armando Samaniego, MD
 Spencer & Jeannette D. Santage
 Salk Institute for Biological Studies
 (Monahan Estate)
 Harry G. & Barbara J. Schmus
 Deborah Schwyter, PhD
 James R. Scott, DDS
 Nail Senozan, PhD & Diane S. Senozan
 Alan J. Senzel, PhD
 William R. Shoemaker, MD
 Sue Shojj
 Kent & Joanna Showman
 Edward Steffen, PhD
 Charlene G. Taylor, PAC
 William Thomasson, PhD
 Celestine Tillman
 Sho-Chien Tsuang
 Leonard A. VanWijk
 Lily N. Vuong & John D. Sanchez
 Kathy I. Wang
 Gregory L. Whitaker, DPM
 Neill White
 Richard V. Whiteley, PhD
 & Mary A. Whiteley
 Delyse R. (Buus), MD
 & Vance Williams
 Marco Wong, MD
 Leslie Wynston, PhD
 Kenneth Yamaguchi, PhD
 & Karen Bartels, PhD

THE IMPORTANCE OF PRIVATE SUPPORT

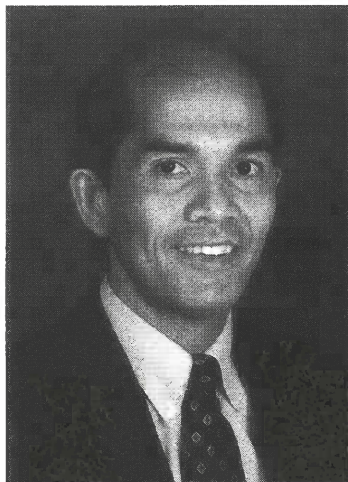
This past fiscal year the department succeeded in raising \$45,437.27 in cash gifts and obtained in-kind gifts valued at \$59,857.46; the total value of cash and in-kind gifts amounted to \$105,294.73. When it is considered that the state provided only \$22,250 for operating expenses for the department, it is seen that private funding exceeded state support by almost a factor of five! Our department educates approximately 4,000 students each year. Thus state funding for operating expenses for each student amounts to about \$5.56/student, a paltry sum when the current costs of chemicals and equipment are considered. We could not have met the educational needs of our students without your help, and we are most grateful for it. Of the \$45,437.27 in cash gifts, we spent \$32,720.00, setting aside the balance for anticipated expenses in "start-up" costs associated with the hiring of a new biochemistry faculty member for the coming year and for additions to our endowment fund.

An accounting of our expenditures of private funds is as follows:

Equipment	\$14,954
Computer Software	655
Scholarships & Awards	6,331
Seminars & Lectureships	3,833
Student Travel to Scientific Meetings	739
Newsletter	3,301
Department Retreats	326
Chemicals & Supplies	1,299
Equipment Repairs	248
Advisory Council Expense	863
Petty Cash (Misc. Supplies)	171



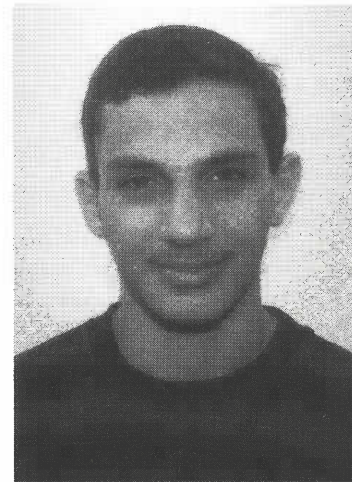
Leticia Arellano-Summer,
Henderson Scholar



Silverio Arano, Scoggins Scholar



Domenica Devine, Stern Scholar



Jawdat Muhmed-Hussein,
Pathos Scholar

ENDOWED AWARDS

ROBERT B. HENDERSON MEMORIAL AWARD

The Robert B. Henderson Award was established by Dr. Henderson's family, colleagues and friends to honor his memory. Dr. Henderson was a member of the Chemistry and Biochemistry Department from 1955-1983, and a distinguished scientist and teacher of organic and general chemistry. Recipients for this award are chosen from among bachelor's and master's graduates as those best exemplifying Dr. Henderson's scholarship and commitment to the profession of chemistry.

This year's award was presented to **Leticia Arellano-Summer** for her outstanding scholarship as a master's student in chemistry. Her thesis advisor was Dr. James Jensen. After Dr. Jensen's death last year, Dr. Henry Po assumed direction of her thesis work. Leticia received her bachelor's degree from UC Berkeley in environmental sciences and taught science in the public schools for a short time before entering the master's program at CSULB.

Having completed her MS degree, she is now looking forward to a career as a teacher of chemistry in a community college.

DAVID L. SCOGGINS MEMORIAL AWARD

The Scoggins Memorial Award recognizes outstanding scholarship and promise by a Chemistry or Biochemistry graduating student who intends to make a career of one of the health professions. This award, established by Dr. A. G. Tharp, now Professor Emeritus, is in memory of David L. Scoggins, who was a graduate student in the Chemistry Department at the time of his premature death.

Silverio Arano, a BS Biochemistry graduate who intends to enter medical school in the coming year, is the Scoggins awardee. He graduated from UC Irvine with a BS Degree in Physics, but elected to enter CSULB as a pre-medical student. Silverio, an undergraduate research student of Dr. Henry Po, is a much-honored student who was also selected as the Outstanding Graduate of the entire College of Natural Science and Mathematics for 1996.

THE JOHN H. STERN MEMORIAL AWARD

The Stern Award, consisting of a cash prize, is given in memory of Dr. John H. Stern, internationally known for his work in solution thermodynamics and author of many publications in that area. The award was established by colleagues, former students and friends of Dr. Stern, who was a member of this department from 1958-1984 and a distinguished teacher of physical and general chemistry.

Domenica Devine, a BS Biochemistry undergraduate, was presented the award in recognition of her outstanding work in the year course in physical chemistry, Chem 377A and 377B. Domenica plans to continue work for the PhD in Biochemistry after graduation in December. She is a Howard Hughes Scholar and a research student of Dr. Judy Brusslin at present.

THE SPYROS PATHOS IV AWARD

The Spyros Pathos IV Award is presented annually to a student excelling in the second-semester of general chemistry, Chemistry 111B. This year is the second year that the Pathos Award has been granted. This award is made possible by friends of Spyros Pathos IV, who was an undergraduate chemistry major in our department at the time of his death in 1993.

Jawdat Muhmed-Hussein, this year's Pathos Scholar, is a freshman, majoring in Biochemistry. Jawdat, born in England, was valedictorian at Gahr High School in Cerritos and was personally selected by the President of CSULB to be a President's Scholar. He is an undergraduate research student of Dr. Jeff Cohlberg and intends to earn a PhD in chemistry or attend medical school.

LAB SUPPORT SCHOLARSHIP AWARDED TO CITRUS COLLEGE STUDENT

Lab Support, a division of On Assignment, Inc., an agency which provides temporary professional assignments in laboratories, has established a scholarship for area community college transfer students who intend to major in chemistry or biochemistry at CSULB. This is the second year of the award's existence. Last year's awardee was Ngoc-Huyen Ho, a transfer student from Cypress College, a chemistry major who distinguished herself during her first year at CSULB.

This year's Lab Support Scholar is Nabil Gerges, who is transferring from Citrus College in Glendora. Mr. Gerges has an outstanding record and worked as a tutor at the campus tutoring center as well as grading lab reports for an introductory chemistry class at Citrus College. He has chosen to major in biochemistry. Mr. Gerges, who will be a junior, is interested in a career in medicine.

The purpose of the scholarship is to identify outstanding students for our chemistry and biochemistry programs and to foster closer relationships with nearby community colleges. The department would like to express its gratitude to Cheryl Mock of Lab Support's Costa Mesa office for facilitating this scholarship. Ms. Mock is a member of the department's Chemistry and Biochemistry Advisory Council.

DR. ERIKA SCHNEIDER, BS 1981: OUTSTANDING ALUMNA

The California State University, Long Beach Alumni Association named Dr. Erika Schneider (BS 1981, *magna cum laude*) as this year's Outstanding Alumna for the College of Natural Sciences and Mathematics. Although her work schedule prevented her from attending, citations were read at Commencement and at the Alumni Awards Banquet held at the Long Beach Sheraton.

Dr. Schneider received her PhD from UC Berkeley and was appointed a research scientist at General Electric Medical Systems in Milwaukee, Wis. Her research there involved development of service tools to address clinical problems using Magnetic Resonance Imaging (MRI), including the areas of autoshimming, magnetic shim-



Dr. Erika Schneider, Outstanding Alumna

ming, magnetic susceptibility, and angiographic applications of MRI. In 1994 she joined the Corporate Research and Development Section of GE, located in Schenectady, N.Y. This section is responsible for future products, technology and innovation for all 12 of General

Electric's businesses. There are 1,500 people at the center; about 50% are PhDs. According to Dr. Schneider, "The current challenge of medical equipment manufacturers is to make the equipment reduce overall hospital costs. I work with many types of physicians and hospital staff, physicists, chemists, electrical engineers, materials specialists, mechanical engineers and people with a complete range of computer skills. Some of what I do is to develop and implement clinically applicable technology for cardiac function and flow measurements and MR guided interventional procedures."

As a senior, Dr. Schneider received the department's award in analytical chemistry.

SILVERIO ARANO: OUTSTANDING GRADUATE OF THE COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Every year the Alumni Association selects an outstanding graduate from each of the seven colleges of the university. The award recipient is acknowledged at the college's Commencement and feted at the Alumni Awards Banquet, held this year at the Long Beach Sheraton. The Alumni Association chose **Silverio Arano**, a BS graduate in Biochemistry, from among approximately 200 science and math graduates, as this year's Outstanding Graduate. Silverio plans eventually to attend medical school, but meanwhile will continue as a postgraduate student in Chemistry.

Silverio was born in a fishing village in the Philippines and came to the United States

when he was 8 years old. Prior to enrolling as a biochemistry major at CSULB, he completed a BS in Physics at UC Irvine and worked locally as an engineer in the aerospace industry.

"My original intent in returning to college was to prepare for entering the medical profession. I first chose microbiology, but I found myself being drawn towards chemistry and biochemistry because they provide clues to the underlying basis of life and associated biological functions. Although I am still interested in a career in medicine, my laboratory experience with Dr. Po, my undergraduate research advisor, has made me consider research as an option. The research work with Dr. Po involves the use of

electrochemical techniques to synthesize disulfide bonds in 2-mercaptopyrimidines and their derivatives. This project also required structure verification using NMR and mass spectroscopy. I gave a poster presentation of our preliminary results at the National Meeting of the ACS in April, 1995.

"I attribute much of my success as a student to the excellent instruction which I received at CSULB and to the encouragement of my fellow students."

In the 20 years that the Alumni Association has named outstanding graduates, 12 have been from the Department of Chemistry and Biochemistry.

NEW GEOCHEMISTRY LAB IS THE SOLUTION!

by James Sample, Associate Professor, Geology

Completion of a new geochemistry laboratory in Peterson Hall 3 gives faculty and students in the College of Natural Sciences and Mathematics access to a modern cleanroom facility for research. The new 1269 ft² facility includes an instrument room, an organic geochemistry lab with six fume hoods and an inorganic geochemistry lab with two custom-built fume hoods for trace element analysis. The facility has a dedicated air conditioned, filtered air supply that removes greater than 99.5% of particulate matter more than 0.5 microns in diameter. The entire project, costing in excess of \$550,000, was funded by a \$428,000 grant from the Academic Research Infrastructure Program of the National Science Foundation and by matching funds from the college. The grant was awarded to Dr. James Sample (principal investigator, Geological Sciences), Dr. Roger Acey (co-PI, Chemistry and Biochemistry) and Dr. Robert Francis (co-PI, Geological Sciences). Funding of the project reflects a new trend at the university encouraged by President Maxson. Delays in state funding of the long-anticipated, but as yet unrealized, new science lab building at CSULB motivated the search for non-state funding sources.

Research and research training of both graduate and undergraduate students focuses on interdisciplinary aspects of geochemistry and environmental chemistry. Research projects in progress include fluid flow and tectonic deformation at continental margins, early diagenesis of organic matter and formation of petroleum hydrocarbons and bioremediation of groundwater contamination. Students using the lab will receive training in the use of a gas chromatograph, ion chromatograph, vacuum line for extraction of stable isotopes from carbonate minerals and low-pressure column chromatography for separation of trace metals from organic and inorganic substances. Additional funding is being sought for a new gas chromatograph-mass spectrometer.

The prospect of interdisciplinary research in environmental geochemistry has already captured the interest of other funding entities. The ARCO Foundation has provided \$20,000 for support of student research in the facility during the lab's inaugural year.

Dr. Sample was recently awarded a grant from the Ocean Sciences Program of the National Science Foundation of \$125,000 for research in the new lab. The geochemistry lab is a large seed that we hope will grow into a very large tree of interdisciplinary research at CSULB.

NEW ADVISORY COUNCIL APPOINTMENTS

Affiliated with our department is an active group of about 30 scientists and business persons who help us forge a link with the chemically related community in the area. It is a mutual support group. Members of the Advisory Council help us place our graduates, are available for technical advice and help provide resources for the maintenance of our educational programs. We in turn refer potential employees to them and offer our help in other ways; for example, use of our technical library, and occasional instrumental and consulting services. New representatives joining the Council in the past year are:

Dr. Martin Jadus, Veterans Administration Medical Center, Long Beach. Dr. Jadus, who received his PhD in Medical Sciences-Pathology from the University of Florida, is a research scientist at the VA Hospital, and assists our department in giving some specialized lectures in graduate courses in biochemistry and interacts with the biochemistry faculty in their research. Dr. Jadus was recently appointed as an Adjunct Professor for the Department of Chemistry and Biochemistry at CSULB.

Ms. Cheryl Mock is Certified Account Manager with the Lab Support office in Costa Mesa. Lab Support, a nationwide company, is the largest supplier of temporary technical personnel to laboratories and industries. Several of our graduates are registered with Lab Support. Through Ms. Mock's assistance, and that of her predecessor on the council, **Colleen McDorman**, our department has received a Lab Support Scholarship which pays the fees for the first year of an outstanding community college transfer student who will major in chemistry or biochemistry. This is the second year in which the scholarship has been offered.

Dr. M. Martha Molina, Vice President, Staff Model Operations, Molina Medical Centers, Long Beach, is a BA graduate (1985) in chemistry from CSULB and subsequently received her MD from UC Irvine. Dr. Molina will act as an informational resource for chemistry and biochemistry pre-medical students.

Mr. James C. Richards, President of Ablestik Laboratories in Rancho Dominguez Hills, has a Bachelor's Degree in Chemical Engineering from Cornell University and his MBA from Stanford University. Through Mr. Richards' efforts our department has received generous support for its degree programs for the past several years. Ablestik Laboratories is a subsidiary of National Starch and Chemical Company and produces adhesives used in the production of high technology products such as computers and medical devices.

Dr. Ercan Unver is an alumnus of our department, having received his MS Degree in Chemistry in 1976. Dr. Unver later obtained his PhD from Aegean University in Izmir, Turkey. He currently is Director of the Department of Biochemistry at Diagnostic Products Corp. in Los Angeles, where he supervises over 30 scientists in the research and development of critical reagents for immunodiagnostic applications. Prior to joining Diagnostic Products in 1986, he was Research Assistant Professor in the Department of Chemistry at USC.

ALUMNI NEWS

Thanks for your letters and responses! We enjoy hearing from you. The information which you send us about your careers is often shared with students who are considering professions in chemistry, biochemistry, medicine, dentistry, pharmacy, law, etc. We have an Alumni Bulletin Board where communications from alumni are posted for faculty to read, and they are read with great interest! All degrees noted are in Chemistry unless otherwise specified.

Alumni having both bachelor's and master's degrees from our department are listed under the year they received their bachelor's degree. CSULB degrees are in bold type. To communicate about the *Newsletter* or to send information, **write to:** Dr. Kenneth L. Marsi; Department of Chemistry/Biochemistry, California State University, Long Beach; Long Beach, CA 90840. **FAX:** (310) 985-8557. **E-mail:** kmarsi@csulb.edu.

1959

William I. Rogers, BS, is manager of Alumatherm, a metallurgical firm, owns a farm and lives in Rolling Hills Estates.

1961

Fred Dorer, BS (PhD, U of Washington), continues as Provost and Academic Vice President at California State University, Bakersfield.

Arie A. Passchier, BS, MS 1963 (PhD, U of Washington), is Senior Engineering Specialist at Rockwell International in Anaheim. "I am in my 28th year with the Autonetics Division of Rockwell International. Sons Jason and Eric are, respectively, a physics major at UC San Diego and a language major at UCLA. Wife, Deanna, sells real estate, teaches piano, and is Regional Director of AYUSA International, a foreign exchange student program."

1962

John J. Jasnosz, BS, MS 1964, is now retired and lives in Prescott, Ariz.

1964

Per Christiansen, BA, 1994 Outstanding Alumnus for the College of Natural Sciences and Mathematics, retired as President and Chief Executive Officer of Nalco Fuel, based in Naperville, Ill. He has been retained as a consultant with Nalco, and continues to live in Naperville.

William Timberlake, BS (MS, UCLA), is a faculty member at Los Angeles Harbor College and continues as Treasurer of the UCLA Association of Chemists and Biochemists.

1966

Joseph Ayers, Student 1966 (PhD, UC San Diego), is Director of Northeastern University's Marine Science Center, in East Point, Nahant, Mass. He is involved in research in the neurophysiology and behavior of lobsters and sea lampreys.

Roger Clark, BS, MS 1966 (PhD, U of Utah), works with EY Atochem, North America, a French-based company. His wife, Carol, is a half-time art teacher at a private school, and twins, Bill and Jim, are both senior engineering students.

1967

Margaret Ann Hohly, BS, MS 1970 (MS, CSU Fullerton), is Professor of Business Information Systems at Cerritos College and is Department Chair and AS/400 program coordinator.

Robert Jordan, BS, MBA 1976, is water quality manager with the Santa Margarita Water District in Mission Viejo.

Ralph J. Knights, BS (PhD, Purdue), is Manager of Development with New Zealand Milk Products in Santa Rosa. "I manage a staff of eight professionals who develop new products and assist customers with new uses of milk proteins. Craig is now 13 and home schooled by wife, Jackie."

Alan J. Senzel, BS (PhD, UCLA), is currently Analytical Contract Laboratories Manager for Entropy, Inc., one of the oldest stack testing laboratories. His wife, Phyllis, is Child Support Enforcement Supervisor for Wake County, N.C. Son, Richard, 23, is completing a master's degree in transportation planning at UNC-Chapel Hill. Daughter, Lisa, 22, is in the second year of an MD/PhD program at Albert Einstein Medical College.

1968

Donald J. Ferm, BS, is Senior Research Chemist with U. S. Borax, Inc. "I have just completed 31 years with U.S. Borax. I am currently involved in the application of zinc borates as flame retardant additives in plastics."

Raymond E. Ouellette, BS, is an environmental consultant and lives in Mission Viejo, Calif.

James R. Scott, BS (DDS, USC), is Staff Dentist with United Health Centers in Orange Cove, Calif.

1969

Ed H. Bowman, BS (MS, Princeton; PhD, UC Santa Barbara), is Associate Scientist for Dow USA and is spending the current year on an industrial sabbatical. Following his sabbatical he will retire from Dow and devote time with VTI Technology Vision, Inc., a water treatment firm. Daughter, Shawne Summer, received her MS in Public Health and Health Administration from Oregon State U and is employed at the university. Daughter, Jessica, is a star on the TV series, "Dr. Quinn."

Michael Easterling, BS, works as technical Director of GenCorp in Auburn, Penn.

William Moody, Student 1974 (MD Autonomo Guadalajara, Mexico), is a pediatrician at the Fallbrook Hospital in Fallbrook, Calif. He is also involved in a community outreach program to improve access to medical care to area residents.

John S. Nelson, BS (JD, Loyola Law School, Los Angeles), is an attorney and a partner in the firm of Nelson & Nelson. John is a member of the Chemistry and Biochemistry Department Advisory Council.

1970

Robert D. MacPhee, Jr., BS, MS 1972 (PhD, USC), is Director, USC Clinical Laboratories and Director of the USC Pathology Reference Laboratory at the USC School of Medicine. His PhD thesis was titled, "T-cell Receptor V-beta Gene Repertoire in HIV Infection." He is Assistant Professor with Advanced Standing.

1973

Robert A. Boyle, III, BS (MD, UC San Francisco), is Director of Anesthesiology Critical Care at Washington University School of Medicine.

Robert Deal, BS, is Quality Director for U.S. Borax in Boron, Calif. He manages the quality assurance groups and quality (ISO 9000) systems, and is responsible for global quality issues.

Pete Ladjimi, Jr, BS, MS 1976, is Chemist III at the Mobil Oil Corporation/Torrance Refinery. He is also a part-time instructor at Long Beach City College and has a Community College Credential in Chemistry. He is married with two sons, 7 and 9. He will begin the PhD program in analytical chemistry at UC Riverside this fall.

1974

Richard V. Whiteley, Jr, BS (PhD, U of Nebraska), is Associate Professor of Chemistry at Pacific University in Forest Grove, Ore. "I am just finishing my first year as Chair of the Natural Sciences Division, and I continue to work with Eagle-Picher Industries, Inc. in Joplin, Mo., on the development of lithium ion batteries. We gave a paper in June at the 37th Power Sources Conference on new methods for preparing and characterizing cathode materials for lithium ion batteries."

1975

Prabha J. Bhalla, MS Biochemistry. "I have two children, a girl, Kiran (15) and a boy, Asheesh (11). Kiran is a student of classical Bharat-Natyam Indian classical dance and plays the piano, and Asheesh plays ice hockey. Asheesh just passed his black belt exams in Taekwondo and is continuing lessons in piano and Indian drum."

Birjees Khawar, MS, lives in Bakersfield and teaches in the Bakersfield City Schools. She has three sons: Imran (25), who is studying for his MBA; Kamran (21), an honors student at UCLA; and Rizran (18), who will be a freshman at UC Berkeley this fall.

Stuart Nowinski, BS, MS 1987, has been elected Physical Sciences Division Chairman at Glendale Community College.

1976

Christos Angeletakis, BS, MS 1978 (PhD, UC Irvine), has returned from Europe and is now employed with Kerr Corp., a Santa Ana firm specializing in dental materials.

Ercan Unver, MS (PhD, Aegean University, Izmir, Turkey), is Director, Department of Biochemistry at Diagnostic Products Corp. in Los Angeles. "The R&D Departments of Diagnostic Products have produced an effective and reliable latex allergy assay and gained FDA approval for it. On the homefront, our 8th grader is a straight-A honors student who was commencement speaker at her graduation ceremonies in June." Ercan was recently named to membership on the CSULB Chemistry and Biochemistry Advisory Council.

1977

Robert K. Blair, BA, MS 1980, is a chemist with BioResearch, Inc. in San Diego. "I have been at BioResearch, Inc. for 15 years." He was the author of a major article, "Urethane-protected amino acid *N*-carboxyanhydrides in peptide synthesis," recently appearing in *Peptide Science*.

Ray Calloway, BS, retired three years ago from Aerospace Corp. The Calloways have their first grandson. "He is a delight and we enjoy watching him grow. I will do my best to see that he graduates with a degree in chemistry from Cal State Long Beach in the year 2018!"

Greg Dorsman, BS, MS 1983, is Formulation Chemist for CoCensys in Irvine. "I am employed preparing pharmaceutical formulations for CoCensys, a young but strong company specializing in central nervous system disorders (epilepsy, Parkinson's, Alzheimer's, stroke, insomnia). Our son, Nick, graduated from high school this year and plans to pursue chemistry as a career!"



Dr. Betty Jane Burri

1978

Betty Jane Burri, MS 1978 (PhD 1982, UC San Diego), is a research scientist with Western Human Nutrition Research Center with the U.S. Department of Agriculture at the Presidio in San Francisco. "My laboratory is continuing its research in carotenoids. We are attempting to discover two things: 1) are carotenoids essential human nutrients? and 2) if so, why do they work so poorly? So far it looks like the answer to the first question is yes, but only in small amounts that can be easily obtained from typical American diets. No one knows the answer to the second question. I am currently a member of the steering committee of the Carotenoid Research Interaction Group (CARIG), an international group of scientists; an editor of *Cartenoid News* and was chair of the last CARIG national meeting in Atlanta."

She is coauthor of several recently published papers including "Effects of a carotene-deficient diet on measures of oxidative susceptibility and superoxide dismutase activity in adult women."

Marianne Marsi, BS (PhD, UCLA), is Technology Superintendent for Teflon Polymer Technology Development for Du Pont. Her husband, Dr. Lewis Manning, is Products-Line Manager for Engineering Products, and also works for Du Pont. They live in Washington, W. Va.

1979

Bill Davenport, BS (MBA, UCLA), is Chief Financial Officer for KDC, Inc. in Los Alamitos.

Robert Maiden, MS, is president and owner of Killdee Scientific Glass Co., Inc., in Santa Fe Springs.

Patrick McKay, MS, is Senior Research Associate with Genentech, Inc., in South San Francisco where he has worked for the past 16 years. "I'm still in the Process Development Department. One project involved scaling-up a purification process to recover material from a >12,000 liter fermentation. I've also been involved with Genentech's Access Excellence program, an activity which helps to get high school biology teachers 'on-line.' I teach catechism and am in my final year as a den leader for Cub Scouts. Mary has been busy with Girl Scouts and Cub Scouts, as well as participation as a parent helper in the classroom. Brian has just earned his Arrow of Light, the highest award in Cub Scouting, and will be entering middle school in the fall. Allison is enjoying Girl Scouts and is going into second grade this fall."

Anthony McLaughlin, BA (DDS, U Washington), practices dentistry in Redmond, Wash., specializing in cosmetic and family dental care. On March 27, he and Elaine Reilly were married in Hawaii. He has also served as a part-time faculty member for the College of Dentistry at the U of Washington.

Nicholas C. Salvati, Student (MS, Loma Linda U; DMD, Washington U), is in dental practice in San Clemente, Calif.

Sue Schoij, BS Chemical Engineering, Minor Chemistry, is employed as Senior Petroleum Engineer for the City of Long Beach, Department of Oil Properties.

Delyse Buus Willams, BA (MD, UCLA), is a physician specializing in ophthalmic plastic and reconstructive surgery and is employed by The Permanente Medical Group in Oakland, Calif. "1995 was a busy and eventful year. I was married to Vance Williams, an attorney for State Farm Insurance, in September. Our practices keep us busy more than full time, but we were able to spend a few weeks in Europe on our honeymoon."

1980

Susan Torian Brentnall, BA (PharmD, UC San Francisco), is pharmacist-in-charge at the College Hospital Pharmacy in Cerritos, Calif.

Brian Dubow, BS. "I am Program Manager and Chief Engineer for all NASA Programs at UC San Diego. These programs, under the Department of Medicine, study cardiopulmonary/cardiovascular changes due to zero gravity on the space shuttle mission, MIR Space Station, and will be conducted on the International Space Station ALFA.

Tina Kishishita, BA (PharmD, UC San Francisco), is employed as Staff Pharmacist at the Veterans Administration Medical Center in Long Beach.

K. Scott Marsi, BA (MS, San Diego State U), is Business Director for Rhone-Poulenc, in Cranbury, N.J.

Mario Molina, BS (MD, USC), is Vice President of Health Management Operations for the Molina Medical Centers, with headquarters in downtown Long Beach. Have you seen their award-winning advertisements on television, starring Mario, sister Dr. Martha Molina, and father, Dr. David Molina?

continued

Alumni News continued

Karen M. Rogers, BA, BS Criminalistics, works currently as Director of Quality Assurance and Food Safety for Family Restaurants, Inc., the parent company of El Torito, Casa Gallardo, Chi-Chi's, El Torito Grille, Charley Brown's, Reuben's and Las Brisas.

Bill Wuhrman, MS, is enjoying life in Mombasa, Kenya in East Africa, and is probably our most remotely situated alumnus. "I was much saddened to hear the news of Dr. Jim Jensen's death. It affected me quite deeply. He had a lasting influence on my life and will never be forgotten."

Kenneth Yamaguchi, BS, MS 1982 (PhD, UC Riverside), is Assistant Professor of Chemistry at Jersey City State College in Jersey City, N.J.

1981

Lance Arakaki, BA (DMD, New Jersey Dental School), is a self-employed dentist in Gardena, Calif.

Thomas Harmon, BA (MS, USC; MD, USC), is a general surgeon with the Thomas Davis Medical Center in Tucson, Ariz. "I am enjoying the heat in Tucson with Beth, our children, Tyler and Casey, and our new dog, Mijo. We are also looking forward to the newest addition to our family this coming January."

Larry Klein, BA, is employed as West Coast General Manager for American Environmental Network in Pleasant Hill, Calif. "For the past six years I have been living in the Bay Area with my fiancée, Paula, five cats and a dog, and I still somehow manage to find time to tour with my rock band, Dervish."

Edward M. Lieskovan, BA (PharmD, USC; MBA, USC), is Chairman and CEO of Pacbase International, Inc. in Santa Monica, Calif.

Erika Schneider, BS (PhD, UC Berkeley), is Fellow in Corporate Research and Development in the Imaging & Visualization Laboratory at General Electric Co.,

Schenectady, N.Y. Erika was the recipient of the CSULB Alumni-sponsored Outstanding Alumna Award for the College of Natural Sciences and Mathematics for 1996 (see an article elsewhere in the *Newsletter*).

Char Taylor, BA (PAC, USC) works as a physician's assistant at the Galena Health Clinic in Galena, Alaska. "After working several years in the Long Beach area, I took 1 1/2 years off to travel in Asia and Africa. The past several months I've been working in the 'Bush' which has been a huge challenge. We are 400 miles northwest of Fairbanks on the Yukon River."

1982

Robin Bjorgan, MS Biochemistry, works as an engineer in El Monte, Calif.

David Moromisato, BA (MD, Loyola Stritch School of Medicine), has an appointment as Assistant Professor of Pediatrics, specializing in pediatric critical care, at Harbor-UCLA Medical Center.

William R. Shoemaker, BS (MD, UC San Francisco), is a Board Certified Internist and practices with Jacobs and Modaber, MDs, Ltd. in Las Vegas, Nev.

1983

Joseph C. Kaufman, BS, is employed as a Software and Systems Engineer with Neurogen Corp. in Branford, Conn. He and Sue were married in 1988, and they have one child, Emily (4). "We relocated to New England in 1991 to escape the California madness."

Donna Nagata, BS 1983 (DDS, Loyola Dental School), is Dental Administrator and Director of Quality Management for Denticare in Laguna Niguel.

1984

Lori Jo Childres, BA (DMD, Washington U School of Dentistry), is a self-employed dentist in Steilacoom, Wash., and is married to **David Sydow, MD** (BA 1984, Biology). Lori and David have a daughter, Kaitlin (2).

David Cook, BA (PhD, UC Berkeley). "Following graduation with the PhD from Berkeley in 1990, I was a postdoc at the UCB-Lawrence Berkeley Lab for the next three years. My work focused on the biological mechanisms of DNA supercoiling as well as the discovery of a new class of drug pumps that occur in *E. coli* and other gram negative bacteria. In 1993 I took a position with Steritech which has led to a significant partnership with Baxter Healthcare. My role is to direct the red blood cell decontamination program. Abbey and I have three children: Rebecca (8), Benjamin (6), and Zach (4)."

Eric J. Derbyshire, BA (MBA, U of Phoenix), is Product Manager for Watlow Controls in Winona, Minn. His work involves the marketing of industrial temperature controls.

Mehdi Rashidi, BA (PhD, UC Santa Barbara), is Principal Scientist and Deputy Director at Lawrence Livermore National Laboratory in Livermore, Calif. "I have a large staff of scientists and graduate students assisting in my research. We have made exciting discoveries in 3D-imaging, multiphase flow, transport and bioremediation."

Theresa M. Rohr-Kirchgraber, BA (MD, Cornell U), is Assistant Professor of Medicine at the State University of New York-Health Science Center in Syracuse. "Being part of the educational process for the residents in internal medicine is rewarding. I'm looking forward to further defining the role of ambulatory medicine." She and Paul, also a physician, have three children, ages 1-6.

Sho-Chein Jane Tsuang, MS, is Staff Pharmacist with Thrifty Drugs in Fallbrook, Calif.

1985

Yucel Burdurlu, MS, is Senior Scientist specializing in exterior decorative projects with ICI-Glidden Paint Co. Her husband, Jerry, works in the Glidden Marketing Department. In February Yucel, Jerry and Thomas (2)

moved to Strongsville, Ohio from Long Beach when Glidden acquired Ameritone Paint Company. The "goodbye gift" of a snow shovel has come in handy!

Martha Molina, BA (MD, UC Irvine), is Vice President of Staff Model Clinic Operations for Molina Medical Centers with headquarters in downtown Long Beach. The Medical Centers constitutes a chain of 29 clinics scattered throughout California and was recently licensed as an HMO for the state of Utah under the name of America Family Care. MMC was just granted a contract with the State of California to care for MediCal patients in Riverside and San Bernardino Counties.

Deborah Schwyter, MS (PhD, UCLA), teaches Chemistry 15, the organic/biochemistry class at Santa Monica College.

1986

Sean Avera, Student (DDS, UCLA), has accepted a full-time position in the Department of Periodontology at Oregon Health Sciences University and teaches bone biology, implantology and clinical periodontology. His wife, Cathy, is still project manager for a dental implant study at UCLA and flies to Los Angeles every two months. She also teaches in the Dental Hygiene Department at OHSU School of Dentistry and works in a private dental office one day a week. Daniel finished the first grade and Erika completed kindergarten.

Susan E. Boggs, BS, MS 1988 (PhD, UC Santa Barbara), at last report was seeking a research postdoc position in photochemistry or biochemistry. Last year she lectured in general chemistry at Ventura College and taught a course in environmental chemistry at UC Santa Barbara.

Jason Brown, Student, Chemistry Minor (DDS, UCLA), has his own dental practice in San Diego. "It was a busy year for us, capped off with a fire in my office building the day before Thanksgiving. I have good insurance so I got that needed remodel that I couldn't afford."

Annette Guerrero, BA, lives in Scottsdale, Ariz.

Katherine Christopherson Kurjan, BS, is Process Chemistry Specialist with Allergan, Inc., in Irvine. "I began my tenth year in July. My group is responsible for contracting process laboratories to make new chemicals for use in eye and skin care pharmaceuticals."

Richard Nighswonger, BA, is an adhesives and sealants sales specialist with Loctite Corp. and lives in Seal Beach, Calif. Products are adhesives for medical devices (i.e., catheters and subcutaneous implants), surface mount electronic assemblies and aerospace applications. He and wife, Tish, have a son, Russell (3 1/2) and are expecting another child in August, 1996.

James Papas, BA, lives in Cologne, Germany, and is Manager for ISP Deutschland's Central and Eastern Europe operations. "I'm responsible for our business in Austria and all the former East Block countries. I travel a lot, training our many new people."

1987

Teresa Knapp Allard, BA (PharmD, UCSF), is employed as a clinical pharmacist at San Francisco General Hospital and is a faculty member at UC San Francisco. "In November of 1994 I married **John D. Allard**, an alumnus of CSULB in Microbiology. John is now a PhD postdoctoral fellow at Stanford University."

Kelly G. Carroll, MS Biochemistry, is Vice President and Co-owner of C&C Scientific in Burlingame. "The best thing about having our own business is the satisfaction that it brings. Our main focus at C&C Scientific is to provide quality labware to clinical laboratories abroad and in the United States." C&C specializes in clean room supplies.

Kimberly Clark-Gray, BA (MS Biochemistry, Rutgers U), is a research associate at Schering Plough Research Institute in Kenilworth, N.J. She has two boys, 1 1/2 and 2 1/2.

Tim Mac Andrew, BS, BS Computer Engineering, 1989, works as a software engineer for California Microwave in Woodland Hills, Calif.

Larry Matsumoto, BA (MD, Creighton U), is completing his last year of residency in Chicago. If all goes well, he hopes to specialize in perinatology at UC Irvine. Susan received her BS in Nursing at Loyola University of Chicago in May. The Matsumotos are the parents of twins born on July 23: Meghan Susan and Daniel Larry.

Joel McPherson, BS, has completed his first year of dental school at USC. "My classes in biochemistry and molecular biology have been really good, because I can concentrate on the dental applications instead of trying to figure out all the chemistry like the biology majors! We had a biochemistry course that was very easy after going through the rigors of Dr. Cohlberg's course. If you see him, tell him I didn't miss a single point all trimester! I miss my chemistry friends and professors and the department's Friday morning donut hour! I'm thinking of starting one at USC."

Tom Murphy, BS, is Chief Chemist for Coatings Resource Corp., an industrial coating manufacturer specializing in VOC compliant coatings for plastics, located in Huntington Beach, Calif.

Joyce Setsuda, MS Biochemistry, received her PhD in Biochemistry in 1995 from UC Riverside. She is presently a postdoc at the National Institutes of Health in Bethesda, Md.

1988

Caryl Acuna, BS Biochemistry (DDS, UCLA), is Staff Dentist and Treatment Coordinator of Head and Neck Cancer Patients at the West Los Angeles Veterans Administration Center. She completed a one-year residency at the Long Beach VAMC in hospital dentistry and was in private practice for two years before taking her present position.

Hugh Cecil, BA Biology, Chemistry Minor, has completed his third year of diagnostic radiology residency at the U of Kansas, Wichita, and is applying for a neuroradiology and/or vascular/interventional fellowship training program. "Denise is still teaching at Wichita State University and has multiple research-related activities keeping her time occupied." A girl was born to the Cecils in January.



Hugh, Denise and Hunter Cecil

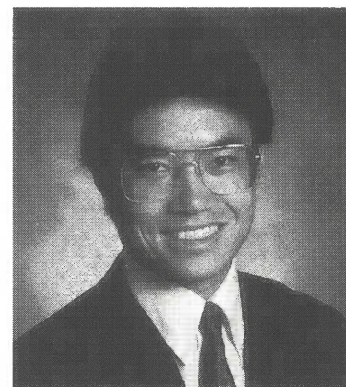
Kerry DeGroot, BS Biochemistry (MD, Georgetown U), has a faculty appointment in anesthesiology at Georgetown U. His wife, Jacqueline, is completing her residency in pathology. The DeGroots live in Bethesda, Md.

1989

Alison Flora Dillemath, Chemistry Minor, BA Psychology, BS Physical Therapy, is a physical therapist and Director of Operations for the New England area for Thera Tx. She lives in North Attleboro, Mass.

Daryl Fukuda, BA (MA Education, US International U), is a science teacher at Mission Viejo High School and lives in Laguna Niguel, Calif.

Timothy S. Kneebone, Chemistry Minor, BS Medical Microbiology (DPM, California College of Podiatric Medicine, San Francisco), works in three clinical practices in Southern California. He is involved in resident and extern training at North Hollywood Medical Center. "Our main focus is union surgery. We have published our results yearly in the *Journal of the American Podiatric Medical Association*." Tim lives in the Los Feliz area of Los Angeles.



Dr. Marco Wong

Marco Wong, BA (MD, Wayne State University), is employed by the Department of Biochemistry and Molecular Biology at Wayne State University School of Medicine, where he is a general surgery resident. "I am in the seven-year residency training program, because I am interested in an academic career which involves teaching and research and am particularly interested in liver and pancreas transplantation. I am thinking about pursuing a PhD degree in Biochemistry/Molecular Biology. I published a paper several months ago in *Archives of Surgery* about an unusual case of gastroesophageal intussusception. We are currently studying a model for drug and antibiotic resistance. Also, I am studying the cadmium resistance operon which was found in *Staph. aureus*. This operon allows *Staph. aureus* to live and grow in the presence of highly toxic cadmium. I am studying the CadC protein, and after 10 months of cloning genes and trying different protein purification techniques, I have finally been fortunate enough to have found the optimal conditions which have allowed me to purify the CadC protein using ion exchange chromatography. This has enabled me to make an antibody to the protein for Western blots. An abstract of this work was accepted by the Michigan Chapter of the American College of Surgeons' Residents' 43rd Competition Day. I did not win the competition, but I enjoyed the process."

continued

Alumni News continued

1990

Clyde Jones, BS Biochemistry, received an MS in Biochemistry this year from Tufts U in Boston, Mass. He is presently a quality assurance engineer with Lotus Development Corp. in Cambridge, Mass.

Giap M. Nguyen, BS, lives and works in Lincoln, Neb., and plans to attend graduate school at the U of Nebraska.

Sharon Squires, MS Biochemistry, is a sales person for Baker-Mallinkrodt Chemicals.

Kiana Tabibzadeh, BA, MS Chemistry, is a chemistry faculty member at Irvine Valley College, El Camino College and Mount San Antonio College.

Gregory Whitaker, BS Biochemistry, received his DPM degree from Scholl College of Podiatric Medicine in Chicago in May, 1996.

1991

Kimberly Corkery, BS, is a realtor with Owens & Co. Realtors in Roanoke, Va. "My husband's building company, KMC, Inc., started a new subdivision in southwest Roanoke. I obtained my realtor's license so I could help with the marketing of these new homes. If anyone needs any help finding a good realtor, our company has a nationwide referral division. Please call me and I will try to help: (540) 774-5555."

John D. Molloy, BA, graduated from the Pepperdine School of Law.

Michael Muegge, BS Biochemistry, is employed as a purification specialist with Chiron Corp. in Emeryville, Calif.

Don Wigington, BS (MS Biochemistry), San Francisco State U), is involved in breast cancer research with the Lawrence Berkeley National Laboratory. He is married and has two children: Carissa (3 1/2) and Tyler (1 1/2).

1992

Donald Crow, BS Biochemistry, graduated from the University of Washington School of Dentistry in June. He and Michelle Lynn Jones, also a June graduate in dentistry, were married on June 23 in Redmond, Wash. Don and Michelle have moved to San Francisco where both will spend a year's residency in the Advanced Education in General Dentistry program at UC San Francisco.

Michele Higley, BS Biochemistry, MS Molecular Biology 1997, is a first-year medical student at the University of Kansas Medical Center. She formerly was a Staff Research Associate at UC Irvine.

Tuyen Nguyen, BS, will be entering the MS program in Chemistry at CSULB this fall.

Juan Carlos Noveron, BS, is studying for his PhD under the direction of Dr. Pradip Maoharak at UC Santa Cruz. His work is in bioinorganic chemistry, "a multidisciplinary field involving inorganic concepts, organic synthesis, and molecular biology to study the catalytic site of metalloenzymes such as iron-containing nitrile hydratase, nickel-containing hydrogenase, etc. I have successfully completed my course requirements and the second-year seminar, and am beginning my third year this fall."

James Peterson, BS, is a PhD candidate, working with Dr. Claude Meares at UC Davis. "I am investigating a combinatorial library of cyclic peptides for the determination of labile peptide substrates for liver proteases. This work is related to radioimmuno-therapy involving certain kinds of cancer, including lymphatic and breast cancer." These peptides are conformationally mobile and quite soluble at neutral pH.

Leonard A. Van Wijk, BS, works for Findly Chemical Disposal, Inc., Fontana, Calif.

1993

Keith Bogdon, BS, MS Chemistry, has completed his MS in Chemistry at CSULB and entered McGeorge Law School this fall. He is interested in patent law.

Stephen Dell, BS, begins his fourth year in the PhD program in organic chemistry at Princeton U. Steve is a student of Dr. Robert Pascal, Jr., and is currently synthesizing phosphacyclophanes to study their NMR properties (phosphorus through-space coupling). He is also involved in a project to synthesize long-chain sulfonic acids, tethering them to silica gel. He published his first paper last May in *Inorganic Chemistry*.

Danny K. Fong, BS Biochemistry, works for Hemo-sphere, Inc., as a Research Associate and is currently developing ELISA and CELIA assays to determine fibrinogen content in the blood. At present he is working part time and studying for his Graduate Record Examinations.

Alec Greer, MS, is a PhD student at the U of Wyoming in Laramie. He passed his orals with flying colors, and expects to complete work for the PhD in organic chemistry in December. Alec then plans a postdoc with Dr. Chris Foote at UCLA.

Charles F. Lindeman, BA, is an environmental consultant with Targhee, Inc. in Long Beach.

Joyce Miyagishima, BA, is a laboratory technician with the Sanitation Districts of Los Angeles County and works in Carson, Calif.

Robert Rzasa, BS, continues as a PhD student at Texas A&M in synthetic organic chemistry. He has passed his graduate seminar and cumulative exams and published his first paper in *Tetrahedron Letters*. He reports that his research is going well. "I have synthesized three pieces of my target molecule, pateramine. The next step will be to stitch them together...no trivial task."

Robert "Chip" Stevens, BS Biochemistry, is serving in the Peace Corps and has been assigned to teach high school science in Tonga. "Malo e lelei! The snorkeling has been incredible, with water temperatures never below 77°. I've seen large blue starfish, seaslugs, and even swam with a huge school of fish. No sharks yet. They're paying me to do this!"

1994

Jason Atalla, BS Biochemistry, is a graduate student in the MS Biochemistry program at CSULB. He was awarded an ARCO research fellowship for the fall semester.

Oren Beske, BS Biochemistry, is a PhD student in biochemistry at UC San Francisco. "The city is a wonderfully diverse place with so much to see and do." He chose UCSF after having also been accepted to UC Berkeley, Cornell, Yale and Harvard.

Nancy Gardner, BA, is an MS student in Chemistry at CSULB and has been appointed a Teaching Associate.

Kevin Merkes, BS Biochemistry, begins his second year in medical school at Loma Linda University School of Medicine.

Kathy Wang, BS Biochemistry, will enter medical school this fall in Missouri.

Stephen A. Westerhout, BA, has completed his second year of medical school at Loma Linda University School of Medicine and took the boards in June. He began third-year rotations July 1 in family medicine, psychiatry, internal medicine, pediatrics, obstetrics and gynecology, and surgery.

1995

Thang Dinh, BS, began the PhD program in organic chemistry at UC Irvine this summer. He plans to work with Dr. David Van Vranken in pharmaceutically related chemistry. For the past year he has been working with Pharmaxx Corp.

Iris Galanis, BS Biochemistry, is a graduate student at Chapman University in Food Science and is involved in an internship at a company which does food analysis.

Dipa B. Gandhi, BS, is a chemistry laboratory analyst with Horiba Instruments, Inc., in Irvine.

Susan Goodhart, BS Biochemistry, is a criminalist at Cal Labs in Yorba Linda. "I'm currently being trained in DNA analysis."

Gregory Gossage, BS, is an identification technician/crime scene processor with the Long Beach Police Department. "I've been employed full time at LBPD after volunteering for a year in their crime lab, where I spent time on developing a method to measure blood alcohol by gas chromatography. Now I work in the crime lab's latent print section, where I collect biological and physical evidence at crime scenes. I'll be pursuing an MS Degree in Criminalistics this fall."

Dana Haley, BS Biochemistry, begins her second year as a PhD student in Pharmacology at UCLA and has received a three-year training grant from the Department of Ophthalmology for studying the structure of alpha crystallin. "My research involves the study of alpha crystallin, a major structural protein in mammalian lens, which plays an important role in maintaining lens transparency, cataractogenesis, and chaperone and small heat shock protein function. In addition to the lens, alpha crystallin is ubiquitous in the body and is over-expressed in many neurological diseases (*i.e.*, multiple sclerosis). I am studying the structure/function relationship of this protein using cryo-electron microscopy in combination with computer image reconstruction (using IMAGIC and other software) to calculate a 20-30 Å resolution structure as well as crystallizing this protein to calculate a 1-2 Å resolution structure."

Scarlet Hamamchian, BS Biochemistry. "I am currently working at Abbott Laboratories in South Pasadena."

Thach Ho, BS, is an MS student in Chemistry at CSULB and has been appointed a Teaching Associate. Thach's thesis work is being directed by Dr. Henry Po.

Jennifer M. Lee, BS Biochemistry, works as a chemist with Bachem in Torrance. Bachem specializes in the synthesis of polypeptides.

Michael J. Mercadante, BS, is Chemistry Laboratory Coordinator at Long Beach City College. "I really enjoy working in the academic setting; the faculty and staff here at LBCC are fascinating, caring people."

Anne Anh Vuong, BA, is employed as a quality control chemist with Pharma Labs in Anaheim. Pharma is a manufacturer of vitamin and nutritional products.

Neill White, BS Chemistry, is a graduate student in applied mathematics at San Diego State U and also works at Scripps Research Institute in La Jolla, with Dr. David Case's group. "My work focuses on computer modeling of proteins and nucleic acids with specific emphasis on NMR data."

REPORTS FROM FACULTY AND STAFF

continued from page seven



Some Chemistry Staff Members. Left to right: Bob Soukup, Instrument Technician; Joyce Kunishima, Director of Laboratories; Josephine Nguyen, Stockroom Technician; Sineth Nguon, Office Student Assistant; LaVona Thomas, Department Secretary.

those old balances and spectrophotometers operating also, along with the 400 MHz NMR and gas chromatography instruments.

"Our daughter is 7 now and will be entering 2nd grade this fall. My wife, Liz, is active with the PTA (as am I), the Girl Scouts and continues to do "tole" painting as a hobby."

LaVona Thomas is our new department secretary, who assists **Jeannette Santage** in the Chemistry/Biochemistry Office. She came to us from the university's Testing Office. "I've been employed at CSULB for nearly three years. Since joining the Chemistry and Biochemistry family in January, 1996, I've had the chance to meet many interesting people. I've also had the opportunity to learn many new and exciting things."

Leslie Wynston. "I have continued to teach clinical chemistry to the medical microbiology majors. Enrollments are increasing again after a precipitous decline in the '80s as people realize they are not being replaced by machines in the labs, and that viruses such as HIV are not the danger to prudent health care professionals as they were once feared to be."

"In addition, I have been teaching biochemistry to the nursing and pre-nursing students. Advising pre-health professions students continues to be a task I enjoy, and I'm also the faculty advisor to The Organization of Pre-professional Students (TOPS).

"Our new Dean of Extension decided that wine courses were not profitable enough to their program so, after 20-odd years, I'm no longer teaching about wines in the Home Economics Department."



Some members of the 1995-96 Graduating Class. Front row, left to right: Silverio Arano, Darlene Dao Phan, Hoa Trinh, Trinh Chau, Burt Secrest, Davide Tenaglia, Dao Lim, Jeff White, Iris Galanis, Jay Kim, Ephrain Gonzalez, Hoa Viet Nguyen, Minh Khuong Phan; second row, left to right: Jason Houghton, John Lee, Debbie Dedicatoria, Chin Su Ham, Sandra Quon, Steve Mihatov, Thien-Linh Nguyen, Jennifer Lin, Osheen Karamians, Michael Barrett, Charles John, Keith Bogdon, Daxa Kurani, John Rico, Sopida Lena Sripitisawad, Dr. Marco Lopez, Eric Mares, Brett Moore, Mathew Koutroulis, Dr. Ken Marsi, Dzoanh Do, Patrick Pak.

**CSULB
CHEMISTRY AND BIOCHEMISTRY
DEPARTMENT NEWSLETTER**

Fall 1996, Number 21

An annual publication of the Department of Chemistry and Biochemistry for past and present students and friends of the department. News items, photos, and comments are eagerly invited. All articles not signed in this issue of the *Newsletter* were researched and written by the Editor.

Kenneth L. Marsi, Editor
(310) 985-4941
e-mail: kmarsi@csulb.edu
fax: (310) 985-8557

CHEMISTRY BIOCHEMISTRY

Fall 1996, Number 21.

Dear CSULB Chemistry Alumnus:

The faculty and I hope that you have enjoyed reading our twenty-first annual *Newsletter* and will take time to send us information about yourself for the next edition. I would also appreciate any comments you might wish to offer about the *Newsletter*—what you enjoy reading, and what you would like to see that has not been included.

Contributions to the Chemistry and Biochemistry Department Alumni Fund are also invited. The CSULB Alumni Office will be informed of any gift, and contributions will be acknowledged in alumni publications. Money which is received is used for the publication of the *Newsletter*, Chemistry Alumni Scholarships and Awards, and miscellaneous projects which help maintain the quality of our department. You will receive a personal letter of appreciation for gifts in any amount. If you wish to contribute, make your check payable to:

CSULB Foundation/Chemistry Fund

and send to:

Department of Chemistry and Biochemistry
California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840-3903

Name _____ Today's Date _____

Address _____

Home Phone () _____ Home e-mail address _____

CSULB Degree(s) and Year(s) _____

Other Degree(s), Year(s), School(s) _____

Occupation _____

Job Title _____

Employer _____

Employer's Address _____

Business Phone () _____ Business e-mail address _____

1. Information about yourself (job, further education, family, scientific achievements, etc.) which you would like included in next year's *Newsletter*: (Continue on the reverse side of this page if needed.)

2. If you have enclosed a contribution, please enter the amount _____. Thank you!

Kindly complete this questionnaire and enclose in the envelope provided.

Ken Marsi, Department Chair and *Newsletter* Editor; e-mail: kmarsi@csulb.edu

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Department of Chemistry and Biochemistry

1250 Bellflower Boulevard
Long Beach, California 90840-3903

ADDRESS CORRECTION REQUESTED

Nonprofit Org.
U.S. POSTAGE
PAID
Permit No. 301
Long Beach, CA

CSULB is committed to and obligated by state and federal laws to extend equal employment and educational opportunity and to take affirmative action to enhance its diversity. The rights of its employees and students are protected by Executive Order 11246 as amended, Revised Order No. 4; Sections 503 and 504 of the Rehabilitation Act of 1973; Title VI and Title VII of the Civil Rights Act of 1964; Title IX of the Educational Amendments of 1972; the Americans with Disabilities Act of 1990; the Age Discrimination Act of 1975; the Civil Rights Restoration Act of 1987; and the Civil Rights Act of 1991. In addition to meeting fully its obligations of nondiscrimination under federal and state law, CSULB is committed to creating a community in which a diverse population can live and work in an atmosphere of tolerance, civility, and respect for the rights and sensibilities of each individual, without regard to economic status, ethnic background, political views, sexual orientation, or other personal characteristics or beliefs. Complaints which allege discriminatory acts or decisions and inquiries concerning the application of these nondiscrimination and affirmative action statutes may be referred to the Director, Affirmative Action at (310) 985-4121, 1250 Bellflower Boulevard, Long Beach, California 90840-0115.