

CHEMISTRY BIOCHEMISTRY

For past and present students and friends of Chemistry and Biochemistry at California State University, Long Beach • Fall 1997 • Number 22

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Dr. Douglas McAbee, new member of the faculty.

DR. DOUGLAS MCABEE JOINS DEPARTMENT

by Margaret Merryfield

Biochemist Douglas D. McAbee joined the faculty of the Department of Chemistry and Biochemistry as an assistant professor this fall. Dr. McAbee, who was hired following a nationwide search involving more than 100 applicants, will be the first new tenure-track faculty member in the department since 1989. He comes to CSULB with both extensive teaching experience and an impressive record of publication in the leading biochemistry journals.

A native of Idaho, Dr. McAbee graduated from Point Loma College in San Diego with undergraduate degrees in biology and chemistry. He completed his PhD at the University of Texas Southwestern Medical School in Dallas, one of the premier institutions in the nation for biomedical research, where he studied fibronectin-

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DR. HARRIS CHOOSES FACULTY EARLY RETIREMENT PROGRAM

It doesn't seem possible that 38 years have passed since I taught my first course at CSULB. The year that I arrived Bob Henderson was chair of the department, and I was the 11th member of the Chemistry Department faculty (at one time there were 26 full-time faculty; there are now 17 members).

I consider myself fortunate to have been a part of this department and to have had the opportunity to work with some wonderful colleagues. I will also miss very much teaching and dealing with students. However, these negative aspects of retirement will be tempered somewhat by my continuing in FERP (Faculty Early

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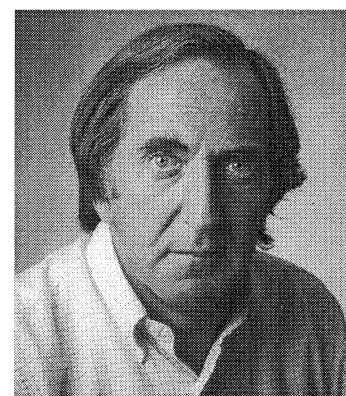
Dr. Edwin Harris, Emeritus Professor, and Ngoc-Anh Vuong, BA 1995, at the Annual Awards Dinner.

LESLIE ORGEL: '97 DISTINGUISHED LECTURER

by Jeffrey Cohlberg

The department hosted a visit this spring from Dr. Leslie Orgel, our 17th annual Distinguished Lecturer. Dr. Orgel, a native of England and a former professor at Cambridge University, is director of the Chemical Evolution Laboratory at the Salk Institute and one of the pioneers of research on the origin of life. Dr. Orgel presented two talks during his visit to CSULB.

A noon talk for a general audience, "The Origin of Life on Earth," began by reviewing various lines of research on the origin of life, starting with the classic Miller-Urey experiment showing the generation of ami-



Dr. Leslie Orgel, 17th Distinguished Lecturer.

no acids, sugars and nucleic acid bases in mixtures of simple gases subjected to electrical discharges. There is now serious doubt as to whether the primordial earth actually had a reducing atmosphere similar to the mixture of gases used by Miller and Urey, and alterna-

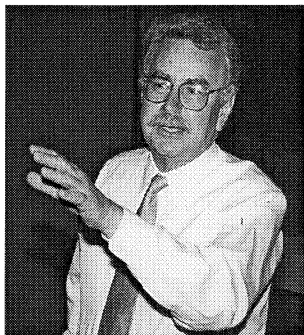
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REMARKS BY THE CHAIR

MY FIRST YEAR AS CHAIR

by Nail M. Senozan

The big event of the past year was the hiring of a tenure-track biochemist—the first such hiring since Dr. Kimberly Schugart joined us in 1989. Over 100 candidates applied for the position, and Dr. Douglas McAbee was selected from among seven finalists who visited the campus in February. There is an article about Dr. McAbee elsewhere in this *Newsletter*. With Dr. McAbee, the department now has 17 full-time faculty members, three of whom are physical chemists, two inorganic, one analytical, six organic, and five biochemists.



Dr. Nail Senozan, Chair,
Chemistry and Biochemistry

This summer, Dr. Edwin Harris chose to join the ranks of the Faculty Early Retirement Program. The number of FERP faculty now stands at four (Drs. Harris, Kalbus, Lieu and Marsi), and they remain as active as ever. Dr. Marsi, in addition to teaching a major's course in organic chemistry, serves as the alumni correspondent and gift coordinator for the department; he is also the editor of the *Newsletter*. Drs. Kalbus and Lieu continue to publish interesting articles in the *Journal of Chemical Education* and teach their share of courses in analytical chemistry. Dr. Harris, who is retiring after 38 years of distinguished service, is planning a safari through Central Africa.

Part-time faculty over the years have greatly contributed to our mission of providing basic instruction and contemporary education in chemistry and biochemistry. Next year we will miss Luda Kuprenas who is retiring after 20 years of teaching pre-general chemistry. At least 5,000 students must have had their first introduction to college chemistry in Mrs. Kuprenas' Chem 101 classes. Her duties will be taken over by Nancy Gardner who completed her MS shortly before this *Newsletter* went to print. As one of her professors put it, "Ms. Gardner's strong classroom presence, commanding voice and bursting enthusiasm will serve her well in teaching Chemistry 101."

In the very near future we expect to hire several new tenure-track faculty. Already we have been authorized to search for an inorganic chemist for the fall of 1998. We are an aging department; seven of the 17 full-time faculty are over 60 years of age. The hiring of the inorganic chemist should soon be followed with searches in other subdisciplines. Let me, therefore, end these remarks with a plea Dr. Marsi made last year: "The support of our alumni and friends will be more important than ever 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."

Thank you for keeping in touch, and thanks for your support. We hope you will soon come and visit us.

DR. DOUGLAS MCABEE

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dependent binding and phagocytosis of polystyrene latex beads. As a post-doctoral associate of Dr. Paul Weigel at the University of Texas Medical Branch in Galveston, he shifted his focus to galactosyl receptors in liver cells.

Since 1989, Dr. McAbee has been an assistant professor at the University of Notre Dame. There he developed and taught courses such as cell biology and protein biochemistry. His primary research interest while at Notre Dame was in the hepatic regulation of iron metabolism, in particular the interaction of the iron-binding protein lactoferrin with rat liver cells.

While lactoferrin was first identified as the major iron-binding protein in human and cow's milk, it has since been found in virtually all body fluids as well as certain cell types. Only one gene for lactoferrin has been found; however, the protein appears to have many different activities. It binds such metals as Fe⁺³ and Mn⁺³ with high affinity. In addition, however, the protein has been shown to have anti-microbial activity, to influence cell development, and to function as a *trans*-activating factor that binds to particular DNA sequences and regulates gene expression. Many of these functions require that the protein interact with target cells.

With the help of an NIH grant that extends to 1999, Dr. McAbee will continue his studies of lactoferrin at CSULB. His plans include identifying and cloning rat liver receptors for lactoferrin, studying the iron-dependent regulation of these receptors and defining the "traffic patterns" of lactoferrin, its receptors and the iron bound to lactoferrin in the liver.

Dr. McAbee's hiring has touched off a series of space rearrangements in PH-3. His office and research lab will occupy space vacated by Roger Acey, who has moved further down the hall.

In addition to teaching the core biochemistry courses for the major and involving undergraduate and graduate students in his research, Dr. McAbee has indicated an interest in developing a graduate course in membrane biochemistry, an area that complements our current graduate menu.

Dr. McAbee and his wife, Cristy, have two children, Kathryn and Keith.

LESLIE ORGEL

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tive theories must be considered. The finding of such compounds in meteorites raises the possibility of an extra-terrestrial origin of bio-organic compounds, and recent work concerning the catalytic action of clays in deep-sea vents suggests another possible mechanism of their appearance on the earth. Orgel went on to discuss his own research into the abiotic synthesis of nucleic acids from monomeric precursors.

His 4 p.m. research seminar, "Molecular Replication," dealt with the chemistry of these polymerization reactions, including the properties of nucleic acid-like molecules called peptide nucleic acids, whose properties make them especially well suited to act as precursors for modern RNA and DNA.

KAHIRUP JUAN SHORR, 1936-1997

Kahirup Juan Shorr, MS 1964, passed away on Feb. 5, 1997. She was manager for 30 years at the Air Resources Board in El Monte. Shorr was a graduate of Santo Tomas University in Manila, coming to the United States in 1962 to complete her graduate work. She was a research student of Dr. Ken Marsi, investigating the mechanism of the Hantzsch-Beyer Reaction. Her work was subsequently published in *J. Org. Chem.* **1964**, 29, 3102, and has been cited in several textbooks dealing with heterocyclic chemistry. She was among the first students to receive a master's degree from this department.

Ken Marsi recalls, "Rupe, as she was known by her friends, was my first graduate student at CSULB and set a standard for those who were to follow. She was a first-rate lab worker, conscientious and not easily discouraged when experiments did not succeed at first. As a person she exuded warmth and good humor. It was a joy to see her again at my retirement reception in September of 1996 after so many years."

She is survived by her husband, Joseph Shorr, and two sons, Edward and John Torre.

DR. HARRIS

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Retirement Program). I will be away in the fall and will teach in the spring, so I will not be gone totally for awhile.

In these 38 years I am sure that I have learned as much as I have taught, not only in terms of the subject matter involved—e.g., proton nmr was in its infancy and cmr was virtually unknown, so all I know about nmr I learned since arriving here—but also in terms of how to organize lectures and how to maintain standards while being fair to the students.

The positive aspects of retirement are many, including having the time to travel and read. I have a long list of books waiting.

My major hobby is "early" music, i.e., music of the baroque, renaissance and medieval periods. I expect to spend a lot of time playing informally with friends on the *viola da gamba*, recorder and harpsichord. I also play occasionally with a baroque ensemble that gives concerts in Los Angeles and Pasadena, and with L'Antica Musica, which plays some concerts, but performs mostly for receptions, etc.

Another hobby is foreign languages, and I hope to combine some of my travel with language study in Italy and France.

I can still be reached via the Department of Chemistry and Biochemistry at CSULB. I hope that any former students who expect to be in the area will contact me so we can plan to get together.

MESSAGE FROM THE DEAN

SUCCESS PUTS PRESSURE ON FACILITIES

by Glenn Nagel, Dean, College of Natural Sciences and Mathematics



Dean Glenn Nagel

This is an exciting time for the sciences at Long Beach! The number of students seeking entrance to our programs continues to rise. Enrollments have grown at a rate 10 percent above targeted levels. Majors in the college now number over 2,000, with Biochemistry being among the leaders in this rate of increase. One-third of the President's Scholars choose to major in science and mathematics.

This year we will undertake national searches for seven new faculty, a number we have not seen for many years. Those young faculty will continue the rich tradition of balancing teaching and research in ways that allow these essential activities to complement, not oppose, each other.

Faculty-student research continues and grows. Our annual summary of abstracts features over 100 student presentations at professional meetings. Students continue to co-author publications with faculty. Research grants exceed \$2 million annually.

We seek new ways to promote student learning while maintaining and reinforcing traditional approaches that work. Our Student Access to Science (SAS) Center provides a wealth of student-centered programs and has evolved to become a national model for success in recruitment, retention, mentoring, advising and comprehensive support for our students. New technologies are expanding ways for teaching and learning. New forward-looking programs in Environmental Science, Biotechnology and Geochemistry are making impacts on our world and on our campus.

For our college to remain on the road we have chosen, new science facilities are an absolute necessity. Last year we completed interviews with architectural firms to finalize working drawings for an 80,000 sq. ft. building that will be designed this coming year with funds already approved by the voters. Once this project is completed in approximately 2001, we plan to begin a comprehensive and badly needed remodeling of Peterson Halls 2 and 3. These projects are estimated to cost more than \$60 million with more than \$8 million in new equipment.

The campus fully supports these projects, but additional funding still needs to be approved by the voters for construction to begin. Beyond that, we not only need to be careful planners with a view toward the next 25 years, but we must be aggressive in securing outside funding to create a facility that meets all our needs. In particular, many of the student-support facilities such as computer laboratories, tutorial and group-study rooms, seminar and presentation space, display areas and offices for the SAS center are not included in the current plans. You will continue to hear of our progress on a regular basis. I hope that some of you will recognize this as an effort worthy of your help in terms of time, talent and resources. It will take a determined effort to make our visions a reality. I invite you to contact me by mail, phone (562/985-1521), or e-mail (gnagel@csulb.edu) if you would like to know more details.

EDITORIAL

Ken Marsi, Editor

The heart of this *Newsletter* is the **Alumni News**. Inclusion of information about alumni depends almost entirely on the cooperation of alumni in returning the response form found at the end of this *Newsletter*. I would urge you to send information about yourself for the next edition of the *Newsletter*. For those of you who took the time and effort to furnish information about yourselves, thank you! We have more photos of alumni in this year's edition than ever before. Photos are always welcome; their publication makes the *Newsletter* more interesting.

I would like to direct your attention to the first entry in the Alumni News section of the *Newsletter*—the very interesting response from **Frederick Howe**, BS 1954. Mr. Howe's is probably the first chemistry-related degree, and the first BS degree offered by this university, although the degree was not in chemistry as such. Chemistry degrees were not granted until 1958.

When I arrived at CSULB in 1961, I was one of 13 tenure-track faculty. With this year's retirement of **Dr. Ed Harris**, noted elsewhere in this *Newsletter*, only one of the original 13 remains, **Dr. Dot Goldish**. Dr. Harris came to Long Beach State College, as the university was then known, in 1959. Having common interests in organic chemistry, music and the out-of-doors, he and I became good friends. Together we took hikes in the mountains, sang in the Symphonic Choir, attended a few chemistry conferences, discussed chemistry and shared



Jack Wolf (left), Professor of Chemistry, El Camino College (MS 1965), and Dr. Ken Marsi meet at the Marsi retirement reception after three decades.

our teaching experiences. Fortunately, he will return to teach in the spring semesters, so he will maintain a connection with the department and his students whom he has so ably taught. Congratulations, Ed, on your retirement!

Best wishes, too, to **Mrs. Luda Kuprenas**, a part-time faculty member for 22 years. Luda was the first part-time faculty member I hired when I became chair in 1975, and she has served the department with devotion and skill these many years, teaching students the basic foundations of chemistry for later success in their more advanced studies in chemistry.

After retiring from full-time service last August, I became a half-time faculty member under the Faculty Early Retirement Program. The new department chair, Dr. Nail Senozan, has given me several tasks in addition to teaching a class in organic chemistry each semester. I am the Alumni Correspondent, the Gift Coordinator, Editor of the *Newsletter* and the Advisory Council Coordinator. When I became chair

in 1975, these were the areas of the department I made an effort to develop, and I am glad to be able to continue them under Dr. Senozan's leadership. With respect to the alumni involvement with the department, I am delighted with the letters, *Newsletter* responses, e-mail messages and visits which we have received from you. Also, your generosity has been greater than ever before. A total of \$47,763.70 in cash gifts was received this past year from alumni and friends of the department. Total giving for the fiscal year ending June 30, 1997 is valued at \$140,644.65 and includes \$92,880.45 in in-kind gifts of equipment, supplies, and services. Many thanks for your loyalty and support!

One duty I shall miss is the sponsorship of the Student Affiliates of the American Chemical Society (SAACS). After about 30 years of faculty sponsorship of SAACS, I have decided that it is time for someone with a longer future in the department to guide this group of enthusiastic students who have rendered such impor-

tant service to the department over the years. We have had a model chapter! For the past four years this group of students has received a Commendable Chapter Award from the American Chemical Society. Only two dozen chapters out of about 850 nationwide receive such recognition annually. As I look back over the years, it has been evident that student leadership of SAACS has offered an opportunity for undergraduates to develop organizational and personal skills which have served them so well in their careers. Among former student presidents we have college professors, research directors, physicians and dentists.

Finally, I would like to use this editorial privilege to thank everyone who sent letters of congratulations on the occasion of my retirement and/or made gifts to the scholarship fund established in my name at my retirement. **Jeannette Santage**, my able secretary for the last 17 years of my chairmanship, without my knowledge or consent, organized a wonderful retirement reception on Sept. 12 of last year, attended by over 300 persons in the beautiful Japanese Garden on campus. It was heartwarming to meet former students, colleagues and friends, many of whom I had not seen in years. A number came from out-of-state for that magnificent evening which I shall never forget!

FACULTY AND STAFF REPORTS

(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.*)

Roger Acey. "There have been some significant changes this year. We've moved my office and laboratory down the hall. Because of the close proximity of my office to the research area, the volume and type of music now being played in the lab have taken on a different character! Another change has been the addition of Mike Mustillo as a part-time instructor. Mike, a high school science teacher at Whitney High School, for the last several years has been a volunteer worker in our laboratories. This summer he taught a lab section of Chem 302, a course for nursing and family and consumer sciences students.

"Stephen Espitia and Conrad Winn completed their master's degrees with me. Anna Concepcion and Fred Vallee both graduated and are planning to enter graduate schools in the future. Brent Harpham is writing his thesis and hopes to graduate this fall. Monty Badger is putting the finishing touches on his research project (developmentally regulated nuclear glycosylation) and will be writing in the fall. Jason Atalla is completing his research project (phthalate ester-induced embryotoxicity in *Artemia*) and will also be graduating in the spring of 1998. Tom Kelly's project (isolation of dibenzothiophene degrading bacteria) is moving along nicely, and he hopes to start writ-

ing in the spring. Jenny Hong has been working on isolating the gene for butyrylcholinesterase from *Artemia*. We believe we have isolated the RNA for this gene and are in the process of determining its nucleotide sequence. I am very excited about finally having isolated a gene product from *Artemia*. This opens up a whole new realm of research for my lab. We finally can begin to look at the factors that regulate the expression of a specific gene during development.

"Hong Ma has been re-searching an enzyme known as GSK3. This enzyme is involved in the regulation of glycogen metabolism in the cytosol of cells, and Hong has been able to identify the enzyme in the nucleus of *Artemia*. Eric Stevens is in the process of isolating a bacterium capable of degrading phenylhydrazine and its derivatives. Li-Li Heish is attempting to isolate acetylcholinesterase from *Artemia*. Shil Kothari is isolating and characterizing a series of small peptides found in *Artemia*; we believe they are involved in maintaining metal ion homeostasis in the embryo. Joy Chacon spent this year isolating and identifying a chromate-resistant bacterium. John Cashman was with us for part of the year, and then went East to try out for the U.S. Olympic Team.

"I am happy to report that Jeff Selander will enter the PhD program at Stanford this fall. He spent this last academic year and the summer purifying butyrylcholinesterase from *Artemia*. Jason and Jeff have been developing a new method for synthesizing radiolabeled phthalate esters.

"Joy, John, Jeff and Jason presented their results at the ASBMB meeting in San

Francisco at the end of the summer.

"We had two McNair Fellows in the lab this summer, Mirta Gaus and Nabil Gerges, and both will continue during the academic year. Jason Webb, a high school student, spent the summer in the lab as a participant in the CAST Program.

"Dr. Martin Jadus, from the Long Beach VA Medical Center, and I again taught an NSF-sponsored workshop titled "Molecular Approaches to Immunology." The class had an international flavor this summer; one of the participants was from Mexico and another from Puerto Rico.

"I enrolled in a four-day workshop on how to use the Internet to search databases like Genbank for protein/DNA sequences. I hope to incorporate a portion of this technology into Chem 441A (General Biochemistry) which I am teaching this fall."

Dennis Anjo. "Keith Bogdon, a master's student of mine, completed his research; Keith was studying the effect of base activation of carbon electrodes on their detection limit with liquid chromatography. Ingrid Hidalgo, an undergraduate, worked on the effect of ion size and type on the background signal at the carbon electrode. Ingrid presented her work at the McNair Scholars Seminar, which included a poster session and a slide presentation.

"During the spring of 1997 both Girmachew Ayele and Kelvin Tjon were working on projects. Girmachew was researching the mechanism behind the background signal at the carbon electrode; during the fall Girmachew studied the effect of voltage range on the background signal from glassy

carbon. Kelvin Tjon determined the dissociation constants for a number of substances with catechol and hydroquinone groups.

"A new student, Goldie Yavari, began work in the spring on the use of fractals to explain the mechanism of background signal at the glassy carbon electrode. Goldie will continue the study of the background response and the use of fractal geometry to describe the rough electrode surface. Goldie and Sofia Agüero will be studying the mechanism of background signals at the carbon electrode during the fall of 1997."

Jeff Cohlberg reports, "It was a busy year for me. I wrote a research proposal to the NSF for continued support for our work in 'Interactions of Neurofilament Proteins During Filament Assembly.' I also served as chair of the hiring committee for the new biochemist and coordinated the design and purchase of our new cold room. Yes, our new cold room! After going through the ritual of submitting a minor capital construction proposal for a new biochemistry cold room each year since 1978 (for many years the wall was adorned with a copy of Fritz Coffman's [MS, '80] 1980 cold room design, complete with a graduate student drawn to scale), the money was approved this year. Our new unit (10'x11' interior) will have been installed by the time you read this, if all goes well.

"The lab group is turning over this summer, with Paul Darby completing his MS thesis on FTIR and CD studies of neurofilament protein conformation, and Lenore Landis and Ihab Abumuhor going on to graduate programs in biochemistry and medical technology at UCLA. Undergraduate Jawdat

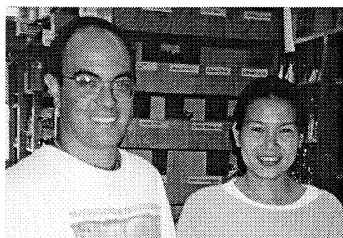
Al-Bassam is back this fall after a summer research fellowship sponsored by the American Heart Association to work on nitric oxide metabolism in a lab at UC San Diego. Also, graduate student Anne Simonson and undergraduate Paula Spencer have returned.

"I spent the summer in Cambridge, England, as resident director of the LA Basin Minority Research Training project, funded by the NIH. This program sends minority faculty and students to do biochemical research for the summer at various sites in Cambridge, Oxford and the London area. I worked in the lab of Phil Evans, an expert in protein folding, mostly doing some circular dichroism studies on the melting of NF protein-coiled coils. Program participants from CSULB include Dr. Marco Lopez and his student, Danny Ponce."

Dr. Cohlberg published an article titled, "cAMP-dependent phosphorylation of neurofilament proteins NF-L and NF-M inhibits their coassembly into filaments *in vitro*," with Teresa Streifel and Roy Avalos in *Biochemical and Biophysical Research Communications*, **222** (1996). He also received a \$92,234 grant through the Research in Undergraduate Institutions program of the National Science Foundation titled "Assembly and Phosphorylation of Neurofila."

Ray Grace. "I just reached my third anniversary working in the Stockroom. I still very much enjoy this position where I've made many wonderful friends. Recently, my roller hockey team, which features many students from within the department, won the championship in our division."

Ray is a graduate of UC Irvine and came to us from Truesdail Laboratories.



**Ray Grace and Josephine Nguyen,
Chemistry Stockroom Technicians.**



**Joyce Kunishima,
Director of
Laboratories.**

Joyce Kunishima.

"This past year can best be described as a year of change. Dr. Marsi stepping down as department chair is the most significant

change in the department since I have been here. It marks the end of an extremely fruitful and productive era in our department. I thoroughly enjoyed working with Dr. Marsi, and I miss him very much.

"However, change is inevitable, and we have all helped Dr. Senozan make as smooth a transition as possible. Dr. Senozan faced the difficult challenges of hiring a new biochemist, faculty retirements and moving people's offices, with great thought and openness. At this time several faculty have swapped offices. Dr. McAbee, our new biochemist, is settling in, and we can say, 'Now that wasn't so bad after all!'

"This past spring I was deeply honored by my fellow College of Natural Science and Mathematics staff members and recognized as a CSULB Employee of the Month. I shared this recognition with Kay Belletti of Biological Sciences. We were treated to a CSULB sweatshirt, restaurant gift certificates and a picture with President Maxson!"

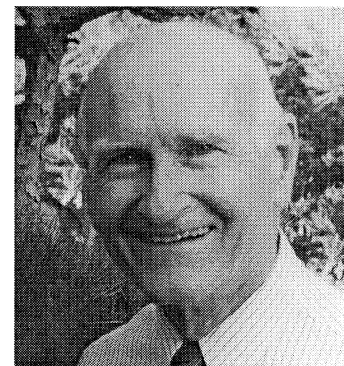
Tom Maricich. "Having missed last year's deadline for the *Newsletter*, I have two years worth of news! On the personal side, both my daughter and younger son were married last summer. In the department several undergraduate scholars contributed to our research program on sulfonimide chemistry. Matt Koutroulis (Howard Hughes Scholar) was recently elected to Phi Beta Kappa. Anthony Medak (MARC and Howard Hughes Scholar) will be enrolled in medical school at UC San Francisco this fall. Mirta Gaus (Howard Hughes Scholar) accomplished the crystallization of our first solid and thermally stable sulfonimide. Dan Farney made significant

progress toward a chiral sulfonimide. This summer, two of my research students, Nick Charidas and Phuong Pham, received Honors in Science Fellowships. Matt Allan has been employed by Gensia in La Jolla for the past year and is nearing completion of his MS thesis.

"In another area, I have received funding from a consortium of three pesticide companies led by **Steve Wilhelm (BS, 1989)**, vice president of Niklor Chemical Co. Inc., to determine the fate of three soil fumigants upon contact with thiosulfate. The results have paved the way for field testing of thiosulfate as a barrier to atmospheric emission of soil fumigants."

Ken Marsi. In addition to my activities mentioned in the editorial in this *Newsletter*, I was an external reviewer, together with Dr. Phil Crews of UC Santa Cruz, of the Department of Chemistry and Biochemistry at San Francisco State University in April of this year. I always enjoy the role of

a reviewer because I observe other ways of solving problems which are common to chemistry departments in general. Dr. Crews and I found the department at SFSU to be a strong, vibrant department with a commitment to good teaching and a thriving research program.



Dr. Darwin Mayfield.

Darwin Mayfield, who retired in 1990, continues his chemistry-related volunteer presentations for Kaleidoscope, teaching University 100 and lecturing at the El Dorado Park Nature Center. In an article in the May issue of the *Journal of Chemical Education*, he describes the genesis and the activities of a campus program for chemistry teachers at the secondary level (see "Notes on an Outreach Forum for High School Chemistry Teachers—an Unexpected Success," Mayfield, D. L., *J. Chem. Educ.* 1997, **94**, 523-524).

Margie Merryfield. "Somehow, as I set out to write these notes each year, it always seems appropriate to say that 'this year was busier than ever.' Can that be true every year?"

"In addition to serving as undergraduate advising coordinator for the department, I took on the task of chairing the Planning and Educational Policies Council. Along the way I learned more than I anticipated about everything from the poli-

tics of general education to the university's utility bills. General education reform is a work in progress, although the campus clearly supports a greater early emphasis on basic skills (especially writing and math).

"In the fall I became part of a team of faculty from Natural Sciences as well as Liberal Arts developing a proposal for an NSF-funded, American Association of Colleges and Universities-led project on women and scientific literacy. We got the grant (one of 10 in the nation, out of 74 applicants) and worked furiously all spring to begin implementing the project, which commenced with faculty workshops this summer. Another major spring activity was the search for a biochemist (see related story in this *Newsletter*).

"This summer my ever-patient graduate students, Dao Lim, Keynes Tong and John Yeung, were joined by McNair scholar, Rebecca Kuhse, and two Cerritos College students from the Bridges to the Baccalaureate program, as well as Honors in Science students, Bao Nguyen and Tien Tran.

"As for the Merryfield family, son James continues to win math contests as a freshman at Long Beach Poly, and Laura is a pretty good violinist (for a 7 year-old) and a big fan of Mozart."

Ken Nakayama has returned from sabbatical leave at UC Irvine where he was associated with Professor Chamberlin in synthetic research. In addition to research collaboration with Dr. Chamberlin, he assisted with the undergraduate organic laboratory program at UC Irvine.

WHERE ARE THEY NOW?

Our department has 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. A few have retired. We remember some of them in this column. We would like to hear from others as well.

Arnold "Jack" Berry (Professor 1973-92) lives in Long Beach and recently took a course in primitive pottery making in Todos los Santos, Mexico. While there he spent time observing whales in San Ignacio Lagoon off the coast of Baja California. Jack has become an expert jewelry designer and fabricator and ceramist during his retirement.

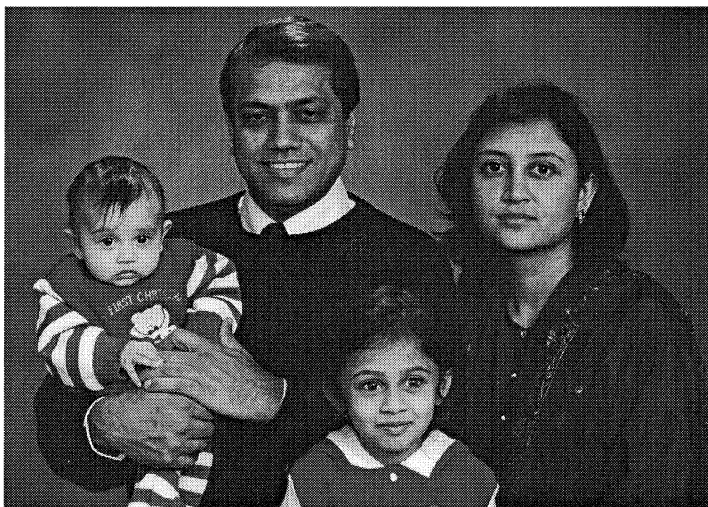
Burt Codispoti (Chemistry Stockroom 1993-1995). Burt is teaching freshman chemistry laboratories at Humboldt State, working as staff member in the stockroom and taking trumpet lessons and music history classes. He has also been hired as the steady lead player in a Eureka big band "for Dancers Only."

Judy Ferraro (Chemistry Secretary 1989-94) has moved to Falmouth, Mass. to be nearer her family. She is looking forward to the marriage of one of her sons this fall.

Dr. Tom Goyne (Lecturer 1986-88) is Professor of Chemistry at Valparaiso University. "The big news for me professionally is that I have been granted a sabbatical beginning this fall. I will be working with Steve Taylor at Hope College, learning an entirely new area of research for me—using enzymes and whole cells to carry out stereospecific organic reactions." The Goynes have a new daughter, Carolyn (9 mo.). Christopher is now 6 1/2.

Dr. Reef Hardy (Lecturer 1995-96) has accepted a full-time lectureship at Occidental College.

Dr. Margaret "Peggy" Kline (Lecturer 1984-88) is Professor of Chemistry at Santa Monica College. "If you're on the WWW sometime and want to check out our 'virtual office hours' project that we are having in conjunction with UCLA, the address is <http://voh.smc.edu>. There is a picture of me riding my horse under 'additional photos' on my page."



Dr. Shelly Kumar and family.

Dr. Shelly Kumar (Lecturer 1985-87, 1988-89). "My teaching and research at Governors State University in Chicago is going fine. Every year I organize a student conference at GSU. We were blessed with a son this year, Sushane, one of the names of God Vishnu."

Dr. Louis Perlgut (Professor 1965-82; Part-time Faculty 1982-92) was the subject of a front-page story in *Leisure World News*. He and Adrienne Werner were wed on Jan. 31, 1997, at the County Courthouse in Santa Ana. The wedding was followed by dinner at the Five Crowns Restaurant in

Corona del Mar. Adrienne is a 25-year resident of Leisure World in Laguna Hills and was "Leisure Worlder" of the Month in 1994 for her many contributions to the community. Lou has lived in Leisure World for five years.

Dr. Larry Schaleger (Visiting Professor 1975-76) is Principal Chemist for Jacobs Engineering, based in Sacramento. He is responsible for quality coordination and is project manager for environmental remediation projects.

STUDENT AFFILIATES OF THE AMERICAN CHEMICAL SOCIETY

by Maria Avina, President

The Student Affiliates of the American Chemical Society (SAACS) had an extremely busy and successful year. The number of members and the level of participation of students increased. Activities and functions also were more numerous and better served the needs of the undergraduates. We are very thankful for our advisor, Dr. Marsi, for without his help many of our activities would not have been possible. Because of space limitations, not all activities are reported, but the highlights of the year were:

Student-Faculty Mixer: This dinner event, held in the fall, promoted interaction with other science departments and was co-sponsored by the College of Natural Science and Mathematics (CNSM) and other science organizations. SAACS was in charge of decorations and games.

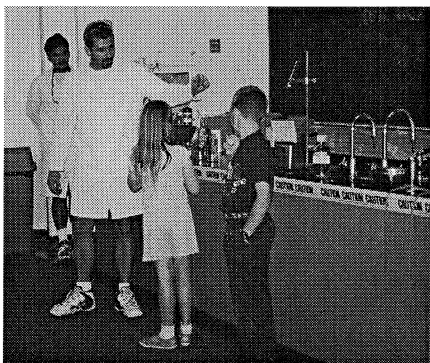
Winter Party: The Winter Party was held at Dr. Merryfield's (undergraduate advisor) house. SAACS provided food and drinks and those who attended also brought food.

Softball: The second-annual softball game against the Biology Student Association promoted more interaction with other science organizations. For the second year SAACS won the game!

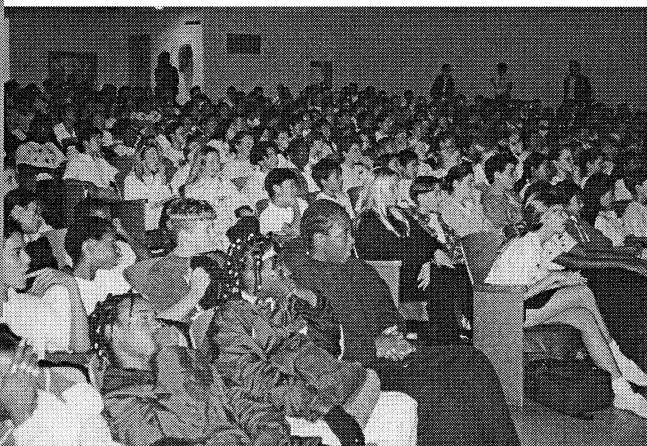
Annual Spring Party: SAACS organized and sponsored the Spring Party at Dr. Marsi's (faculty advisor) house in Dana Point. The event started with beach activities followed by a barbecue.



Kyle Findly, 1995-96 President of SAACS, accepts Commendable Chapter Award for that year from Dr. Sophia Pappatheodorou, Chair, Southern California Section of the ACS.



Student Affiliates, Steve Kraatz (left) and Doug Huntley, put on a Chemistry Show at Kaleidoscope.



Students at Stanford Middle School in Long Beach watch the Student Affiliates present their Chemistry Show.

212th National Meeting, Orlando, Florida: Our SAACS chapter received a \$5,000 grant from the ACS to plan the undergraduate activities for the 33rd Western Regional Meeting in Irvine in October 1997. The president and the immediate past president attended the national meeting to participate in a training program to prepare for the regional meeting. They also introduced speakers and led the Problem Solving chapter session.

32nd Western Regional Meeting, San Francisco: The chapter president attended the regional meeting to get acquainted with how a regional meeting is conducted. There, the president met with ACS members to help with the planning of the regional meeting described above.

213th National Meeting, San Francisco: The president of SAACS attended the ACS National Meeting held in San Francisco to accept the Commendable Chapter Award for 1995-96. She also met with the Young Chemists Committee, the Employment Clearing House, and other ACS programs to get more information for the 33rd Western Regional Meeting.

Chemistry-related Careers Forums: Several well-attended forums were held where professionals, CSULB alumni, gave talks on opportunities that relate to chemistry. Among them were:

- **Martha Molina, MD** (Molina Medical Centers)—Careers in Medicine.

- **Susan Brentnall, PharmD** (College Hospital Pharmacy, Cerritos)—Careers in Pharmacy.

- **Najat Saliba** (USC), **Oren Beske** (UC San Francisco), **Dana Haley** (UCLA), **Bryan Lafitte** (UCLA), all current PhD students—Is a PhD for Me?

- **Bill Walton, DDS**—Careers in Dentistry

- **Bill Hulbrock** (ICN Pharmaceuticals), **Ed Barley** (Los Angeles County Sheriff's Office)—Careers in Chemistry.

- **Les Wynston, PhD** (CSULB)—Careers in Biochemistry

Chemistry Magic Shows, Stanford Middle School:

With the help of a \$300 Innovative Grant given to our chapter by the ACS we took our Chemistry Magic Show on the road to Stanford Middle School. A total of three shows were given on the school's assembly day to several hundred enthusiastic students. The purpose of this was to introduce and promote the study of chemical sciences to younger students.

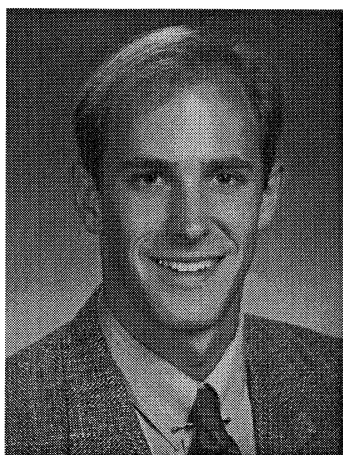
Kaleidoscope: SAACS participated in Kaleidoscope, which is a festival bringing the university and the community together on campus. SAACS performed four chemistry shows to several hundred persons.

Field Trip: SAACS sponsored a field trip to Allergan, a pharmaceutical company that specializes in eye-care products. We were taken through each laboratory and employees discussed some of the research taking place.

CAREER PLANS OF SOME OF OUR 1996-97 GRADUATES

Ihab Abumuhor, BS Biochemistry	Medical Technology, UCLA Harbor Medical Center
Neary Arpajirakul	Teacher, Long Beach Unified School District
Silverio Arano, BS Biochemistry	Medical School, UC Davis
Keith Bogdon, MS Chemistry	McGeorge School of Law, Sacramento MBA, CSULB
Puja Chanani	
Martha de la Rosa, MS Chemistry	PhD Program, UCLA
Domenica Devine, BS Biochemistry	PhD Program, UCLA
Thu Do, BS Biochemistry	Pharmacy School, St. Louis College of Pharmacy
Stephen Espitia, MS Biochemistry	CoCensys, Irvine
Marjan Faridap, BS Biochemistry	Teaching Credential, CSULB
Nancy Gardner, MS Chemistry	Part-time Lecturer, CSULB
Chin Ham, BS Chemistry	Sang Yong Company, Garden Grove
Osheen Karamians, BA Chemistry	Lonza Pharmaceutical
Caroline Klaess, BA Chemistry	Parenting Computer Consultant
Mathew Koutroulis	
Lenore Landis, BS Biochemistry	PhD Program, UCLA
Steven Laven, BS Biochemistry	Bachem California, Torrance
Noucha Meallet, BA Chemistry	Trader Joe's
Anthony Medak, BS Biochemistry	Medical School, UC San Francisco
Patrick Pak, BS Biochemistry	Physician Assistant Program, Drew School of Medicine
Patrick Pierce, BS Biochemistry	MS Biochemistry, CSULB
Sandra Quon, BS Chemistry	Truesdail Laboratories
John Rico, BS Biochemistry	MS Biochemistry, CSULB
Cesar Salamone, BA Chemistry	Dental School, USC
Jeffrey Selander	PhD Program, Stanford University
Nancy Senouda	PhD Program, UC Riverside
Quoc Ta, BS Biochemistry	Medical School, UC Irvine
Hoa Trinh, BS Biochemistry	3M Corporation
Michael Vicioso, BS Biochemistry	Children's Hospital, Los Angeles
Conrad Winn, MS Biochemistry	Rehabilitation Services

CALIFORNIA FOUNDATION FOR BIOCHEMICAL RESEARCH SUMMER FELLOWSHIP



**Christopher Williams, California
Foundation for Biochemical Research
Fellow.**

For the past 19 years the California Foundation for Biochemical Research has funded a summer research fellowship in our department for a graduate or undergraduate student involved in laboratory work in the field of biochemistry. The \$2,000 stipend is used to support the student so that he or she may devote essentially full time to studying some important biochemical problem during the summer. This year's award recipient is **Christopher Williams**, a graduate student in biochemistry. Chris is working on a prob-

lem jointly sponsored by Dr. Roger Acey of our Department and Dr. Martin Jadus, a scientist at the Veterans Administration Center in Long Beach. Specifically, he is studying the role of white cells in the rejection of brain tumors. Chris is a graduate of UC Santa Barbara.

The purpose of the fellowship is to encourage students to pursue research careers in the field of biochemistry.

GRADUATES CONTINUING ON TO DOCTORATES

by Ken Marsi

In a recent article appearing in the *Long Beach Press-Telegram*, dated July 12, 1997, Cal State Long Beach was noted to rank first overall among non-PhD granting universities in the nation whose graduates continue on to earn doctoral degrees in the sciences. This statistic resulted from a National Science Foundation study.

The Department of Chemistry & Biochemistry has a remarkable record producing graduates who subsequently earn their doctorates. I have tracked most of our alumni since degrees were first granted in 1958. My records are almost, but not quite, complete, so that the numbers cited below are conservative. The number of doctorates among our alumni (and the approximate percent of our graduates) is:

PhDs: 160 (13.3%) DDS: 48 (4.0%) DPM: 7 (0.6%)
MDs: 109 (9.1%) PharmD: 30 (2.5%)

Altogether, approximately 30% of our graduates have earned a doctorate.

HONORS TO 1996-97 CHEMISTRY AND BIOCHEMISTRY GRADUATES AND CONTINUING STUDENTS

Ihab Abumuhor	American Institute of Chemists Undergraduate Award; Departmental Honors
Jawdat Al-Bassam	President's Scholar, American Heart Association Summer Fellowship
Maria Avina	Toni Horalek Award
Joy Chacon	Biochemistry Award; Election to Sigma Xi
Glenda Colobong	President's Scholar
Martin Costello	Merck Award in Organic Chemistry
Domenica Devine	Diagnostic Products Corp. Biochemistry Award; Robert Rhodes Award; Outstanding Graduate in Chemistry
Nabil Gerges	McNair Scholar
Suzanne M. Hessel	Election to Phi Kappa Phi
Ingrid C. Hidalgo	McNair Scholar
Thach Ho	Robert B. Henderson Memorial Award; American Institute of Chemists Graduate Award; Graduate Dean's List
Jennifer L. Hueston	Election to Phi Kappa Phi
Janet Hunting	Michael Monahan Memorial Award
Michele Johnson	Spyros Pathos Award; American Chemical Society Polymer Award
Timothy M. Jones	Outstanding Student Teacher in Science
Christopher Kittrell	Student Access to Science Scholar
Mathew Koutroulis	Analytical Chemistry Award; Election to Phi Beta Kappa
Lenore Landis	Diagnostic Products Corp. Biochemistry Award; Khalil Salem Award
Anthony Medak	David Scoggins Memorial Award; Departmental Honors
Richard Meraz	President's Scholar
Maria I. Montoya	Freshman Chemistry Award; President's Scholar
Naomi-Trangt Nguyen	Election to Phi Kappa Phi
Thomas Patko	Hypercube Award
Wajeeh Saadi	Freshman Chemistry Award
Jamie Santos	President's Scholar
Jeffrey Selander	Robert B. Henderson Memorial Award; Departmental Honors
Nancy Wissa Shenouda	McNair Scholar
Stephanie Spooner	Merck Award in Organic Chemistry
Quoc Ta	David Scoggins Memorial Award; Election to Phi Beta Kappa
Elizabeth Yi	Election to Sigma Xi
Christopher Williams	California Foundation for Biochemical Research Summer Research Fellow in Biochemistry

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. JOHN CARLSON, VICE PRESIDENT PRODUCTION, BACHEM CALIFORNIA.

Dr. Carlson received his PhD from MIT in organic chemistry, and retired from CIBA-GEIGY to accept the position with Bachem California in Torrance.

WILLIAM HULBROCK, PRODUCT MANAGER DIAGNOSTICS, ICN BIOMEDICALS, INC.

Mr. Hulbrock is twice an alumnus of our department, having received his BS in Chemistry in 1970 and his MS in Chemistry in 1974. He is Worldwide Product Manager, responsible for profit and loss on an \$8 million diagnostic business. He is also responsible for product training of international distributors and subsidiaries in support of worldwide sales.

LLOYD T. TAKAHASHI, DIRECTOR PHARMACEUTICAL ANALYSIS, ALLERGAN

Mr. Takahashi received his BA degree in Chemistry from Fresno State University and his MS degree, also in Chemistry, from the U of Arizona. After nine years of employment at Riker Laboratories, he joined Allergan in 1973. He is a member of the American Association of Pharmaceutical Scientists.

CHEM/BIOCHEM WEB PAGE

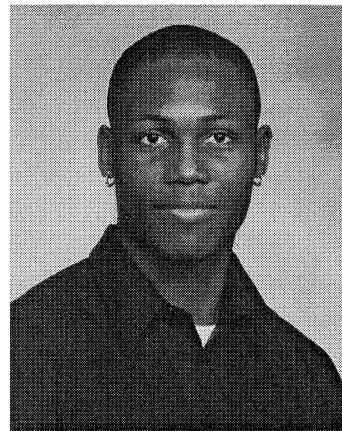
Our department can be visited on the Web at:

<http://mercuric.natsci.csulb.edu>

Obtain information about faculty and staff, the graduate program, degree requirements, the seminar schedule and the *Newsletter*.

LAB SUPPORT SCHOLARSHIP AWARDED TO MOUNT SAN ANTONIO 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 third year of the award's existence. Previous awardees have transferred to CSULB from Cypress College and Citrus College.



Kareem Morgan, Lab Support Scholar.

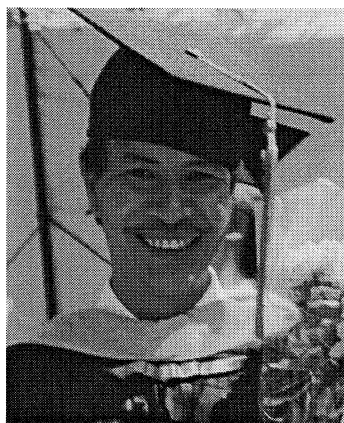
The awardee for 1997-98 is Kareem Morgan, a transfer student from Mount San Antonio College, who intends to continue on for a PhD in Chemistry when he completes his undergraduate work. Kareem's early interest was in biology, but after taking a few math courses he came to enjoy the more quantitative concepts in chemistry.

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 Carson office for facilitating this scholarship. Ms. Mock is a member of the department's Chemistry and Biochemistry Advisory Council.

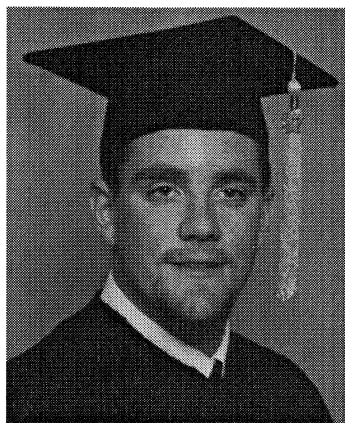
CONFERENCE ON DRUG THERAPY TO BE HELD AT CSULB

We are in the planning stages of a conference, titled "Modern Drug Therapy: The Role of Peptides from Discovery to Market," to be held on campus this spring. Support for the conference comes from a gift supplied by Bachem of California, the conference sponsors. In addition to a keynote speaker, Dr. Carl Dieffenbach of the NIH Division of AIDS, there will be several shorter presentations concerning the various aspects of drug development. The conference will be held on March 19 and 20, 1998.

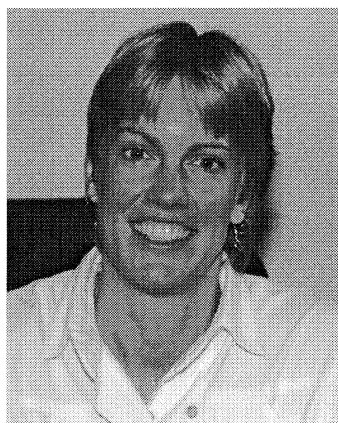
If you wish to be kept informed about this conference or to participate, please contact Dr. Ken Marsi at 562/985-7930 or send e-mail to kmarsi@csulb.edu.



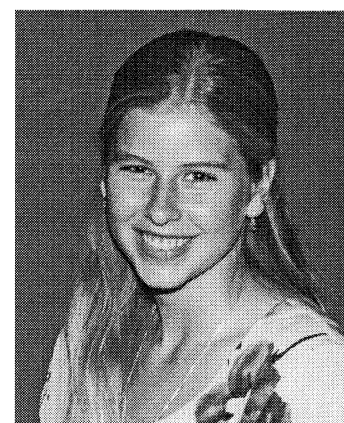
Thach Ho, Henderson Awardee.



Jeffrey Selander, Henderson Awardee.



**Janet Hunting,
Monahan Research Fellow.**



Michelle Johnson, Pathos Awardee.

ENDOWED AWARDS IN CHEMISTRY

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 1955-83 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 **Thach Ho** and **Jeffrey Selander**.

Thach received both his BS (1995) and MS degrees in chemistry from CSULB. He has received a number of honors from our department including election to Phi Lambda Upsilon, the American Institute of Chemists Baccalaureate Award, the Stern Award in Physical Chemistry, the Merck Award in Organic Chemistry and the American Chemical Society Polymer Award. He was appointed a Hughes Scholar and also was named to the Graduate Dean's List. Thach

taught high school chemistry in Viet Nam before coming to the United States. His master's research was carried out under the supervision of Dr. Henry Po. Thach has been accepted into the PhD program at UCLA where he will study organic chemistry.

Jeffrey Selander is also a much-honored student, having been named to the President's List and the National Dean's List. He was also designated as a Hughes Scholar, received Honors in Chemistry at Commencement and was elected to Phi Lambda Upsilon. Jeff was an undergraduate research student of Dr. Roger Acey and will continue work for the PhD in chemistry at Stanford University.

THE MICHAEL MONAHAN AWARD

This award was established through a bequest of Dr. Michael Monahan, an alumnus of our department who received his BS in Chemistry in 1963 and his PhD in 1968 at UC San Diego in physical organic chemistry. While an undergraduate he was a research student of Dr. Robert Henderson. He was a distinguished scientist who was on the faculty at the Salk Institute and was subsequently a Senior Research Scientist with Beckman

Instruments; he was also the founder and president of California Medicinal Chemistry Corp. In 1985-87 he served as a lecturer in our department. He regarded his membership on our faculty as the single greatest honor of his successful career as a scientist. Dr. Monahan passed away in 1989. According to his will, the income from his bequest is to be used to support student research in our department. This is the first year the award has been given.

Janet Hunting, a junior, is the first recipient of the Monahan Award, and spent the summer of 1997 involved in research in Dr. Henry Po's laboratory, synthesizing porphyrin ligands. Janet is a returning student, having interrupted her college career to work in the publishing business. A BS chemistry major, she hopes eventually to continue her studies for the doctorate in chemistry.

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 is the third 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.

Michelle Johnson, this year's recipient, is a junior and a biological sciences major. She plans to make a career in scientific research or possibly enter medical school.

DAVID L. SCOGGINS MEMORIAL AWARD

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

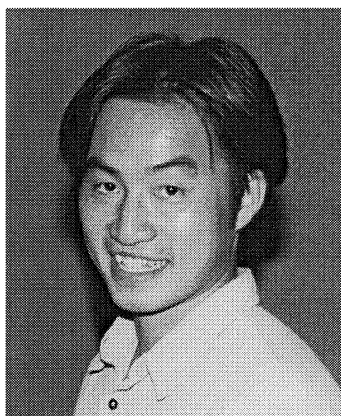
Recipients of this year's Scoggins award are **Anthony Medak** and **Quoc Ta**.

CORPORATE GIFTS TO THE DEPARTMENT

by Ken Marsi



Anthony Medak, Scoggins Awardee.



Quoc Ta, Scoggins Awardee.

During his undergraduate career Anthony has been on the President's List, named a Hughes and MARC Scholar and was elected to Phi Lambda Upsilon. He entered medical school this fall at UC San Francisco. He received a BS in biochemistry and was an undergraduate research student of Dr. Tom Maricich.

Quoc Ta is also a much-honored student. He received the American Chemical Society Polymer Award, the Merck Award in Organic Chemistry, the Chemistry Alumni Award, the Hewlett-Packard Award, a Brotman Scholarship, was elected to Phi Lambda Upsilon, was named a Howard Hughes awardee, and was included on the President's list. He was also elected to Phi Beta Kappa. Quoc entered medical school at UC Irvine this fall and hopes to specialize in pediatrics.

The total value of gifts to the department, in-kind and cash, during the fiscal year ending June 30, 1997 was \$140,644.65. Gifts from business and industry amounted to \$116,456.60 and included \$23,575.65 in cash and \$92,880.95 in in-kind gifts of equipment, supplies and services.

Included in in-kind gifts received were reagents, cell culture materials, storage containers and small items of equipment from Baxter Healthcare; laboratory supplies from Eastwater Scientific; equipment from Hoefer Pharmacia Biotech, Inc.; computer software from Hypercube, Inc.; a Varian SF 330 spectrofluorometer from McGaw, Inc.; pHmeters and electrodes from Orion; a complete set of the Sadtler infrared spectra collection from TRW; two Merck Indexes from Merck & Co.; a Handbook of Chemistry & Physics from CRC Press.

I wish to acknowledge the help of the following persons in assisting us in securing gifts for the department: **Dr. Roger Acey, Danute Basiulis, Greg Beauton, John Eastland, Ann Kahrs, Dr. Ray Maddalone, Cheryl Mock, Dr. Henry Po, James Richards, Dr. Ercan Unver.**

Companies contributing in-kind and/or cash gifts are listed:

Bachem of California* (\$7,500: sponsorship of a biochemistry conference)
 Baxter Healthcare*
 California Foundation for Biochemical Research (\$2,000: summer research fellowship)
 CRC Press
 Diagnostic Products Corp.* (\$1,000: scholarship in biochemistry)
 Forty-Niner Shops
 Hughes Aircraft* (\$1,000: unrestricted gift)
 Hypercube, Inc.
 Lab Support (Assignment Ready, Inc.)* (\$1,850: Scholarship for community college transfer student)
 Merck & Co.
 National Starch and Chemical Foundation (Ablestik Labs.)* (\$2,500: unrestricted gift)
 TRW* (\$2,000: unrestricted gift)

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

Ablestik Laboratories* (Dwight Gergens)
 Dow Chemical Company Foundation (Reid Bowman, PhD)
 Hughes Aircraft* (Danute Basiulis)
 McDonnell Douglas Corp.* (Norman Byrd, PhD)
 Rhone-Poulenc (Stephen Castellino, PhD)
 Rhone-Poulenc (K. Scott Marsi)
 US Borax (Robert J. Deal)

*Companies are members of the Chemistry and Biochemistry Advisory Council

CHEMISTRY NOBELIST TO SPEAK

Dr. Tom Cech, 1989 Nobel Prize winner in Chemistry and faculty member at the University of Colorado, will present two talks in the CSULB Student Union on February 18, 1998. They are: "RNA catalysis and the origins of life" at noon in the Small Auditorium and "Two RNA machines: a self-splicing intron and a telomerase" at 3 p.m. in the Presidents' Room. For more information, call Vasanthi Ananth at 562/985-7562.

GIFTS BY INDIVIDUALS

by Ken Marsi

During the 1996-97 fiscal year the department received *the greatest number of gifts and the largest amount of cash than ever before*. The number of gifts from individuals amounted to 318, totalling \$24,188.05. This does not include \$1,122.50 donated by corporations to match gifts by employees who are alumni of our department. The faculty, staff and students of our department are very grateful for your generosity. Without your help it would not be possible to maintain the excellent programs which we have developed in chemistry and biochemistry.

In the mid-year list of contributors which was sent out in an April 1997 mailing, several names of contributors were inadvertently omitted through a printing error. If your name was among those omitted, please accept my apology. Every effort is made to keep accurate records and to acknowledge all gifts no matter what size they may be.

Cash gifts 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
Dept. of Chemistry and Biochemistry
California State University, Long Beach
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 acknowledgment 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.

HONOR ROLL OF INDIVIDUAL CONTRIBUTORS (JULY 1, 1996-JUNE 30, 1997)

Marcy Abbett	Walter A. Boyle, III, MD	Robert J. Deal	Thomas E. Goyne, PhD
Patricia T. Abe	Joseph Bramblett	Johnny Deblock	Ray Grace
Dorothy Abrahamse, PhD	James R. Brett, PhD	Kerry DeGroot, MD	Sister Agnes Ann Green, PhD
Roger A. Acey, PhD	Donald Bright	Donald Denney, PhD	Alexander Greer, PhD
Jawdat Al-Bassam	Joseph Brown, PhD	& Dorothy Denney, PhD	Kenneth M. Gregory, PhD
Deborah Allison	& Gwen Brown	James E. DeOlden	William H. Griffith
Karl Anatol, PhD	Oliver M. Brown, PhD	Eric J. & Gretchen A. Derbyshire	Raymond Gritton, MD
Courtenay Anderson	Paul F. Burmeister	Domenica Devine	& Liva Yates, MD
Judy Anderson	Norman Byrd, PhD	Christine Dierickx	Mark Gross, PhD
Christos Angeletakis, PhD	Victor Cachia, DPM	Robert Doebler, PhD	Annette Guerrero
Dennis Anjo, PhD	Keith Cagan, MD, PhD	& Tracy Doebler	John Gutschenritter, DDS
Silverio & Wendy Arano	Raymond Calloway	James R. & Coni Donnelly	& Sharon Gutschenritter
Jerry Aspland	David Carlberg, PhD	Gregory Dorsman	Denis C. Guttridge
Charles Austin, PhD & Carol Austin	& Margaret Carlberg	Tom Douglass, PhD	Howard H. Guyer
Maria D. Avina	Kelly G. Carroll	Clare Elser	Alex Habibe
Peter Baine, PhD	Ronald H. & Kathleen R. Carroll	Randy Estrada, MD	Patricia Hanna
Howard B. Baldwin	Joseph Casanova, PhD	Bradley Feldman	Elaine Haglund, PhD
Nina Bao	Stephen Castellino, PhD	Kyle Findly	Marilyn Hale & R. C. Gall
Danute & Al Basiulis	& Nancy Castellino	Stanley Finney, PhD	Scarlet Hamamchian
Robert Bau, PhD	Dorothy J. Caughey	& Linda Finney	Glenn R. Harding
Roger Bauer, PhD	Lori J. Childres, DDS &	Trisha Frazier	Greg Hare
& Jacqueline Bauer	David R. Sydow, PhD	Ronald Garber, PhD	Eric Harenburg
Edwin Becker, PhD	Richard & Nannette Clark	Nancy Gardner	Peter Harney, PhD
Ephraim Ben-Zvi, PhD	Roger T. Clark, PhD	Beverly & William Garrigues	Edwin R. Harris, PhD
Elliott Berkhiser	Vickie Clawson	Victor & Eunice Gearhart	Jim Harris
Arnold "Jack" Berry, PhD	Jeffrey Cohlberg, PhD	Robert A. Gelfand, PhD	LaVona A. Harris
Leo Best	Aristide J. Collins, Jr.	Dwayne D. Gergens, PhD	Taye Hashiguchi
Annie Bianchino, PhD	Armando Contreras	Dwight & Bridget Gergens	Jason Haughton
Robert K. Blair	Kimberly & Raymond Corkery	Dana Gilchrist	Don Hayden, PhD
Steve Blanc	Martin Costello	Leslie J. Gilpin	Utha Hellmann-Blumberg, PhD
Michael J. Block, PhD	Sam Councilman, PhD	Dee Glore	Renee G. Hermes
Keith Bogdon & Daksha Kurani	Shirlee A. Critchfield	Dorothy Goldish, PhD	Douglas Hill, PhD
Susan Boggs, PhD	Roger & Carolyn Crow	& Elihu Goldish, PhD	Thach Ho
David & Teresa Bothman	Alan Cunningham, PhD	Harold Goldwhite, PhD	Margaret A. Hohly
Sanford & Annette Bothman	Robert Curiale	Isadore Goodman, PhD	Jimmy A. Holstein
Reid H. Bowman, PhD	Violeta D. Dadufulza	Lisa Gorlinsky	Lisa Holzman

Stephen Horn, PhD
Brad House
Frederick W. Howe
Kenneth S. Huang
William H. Hülbrock
Doug & Joanne Huntley
Jon Hutchins, PhD
Robert O. Hutchins, PhD
& Mary G. K. Hutchins, PhD
Jeffery K. Ichikawa
Carol A. Itatani, PhD
Thomas Ito, PhD
Mary Jacob, PhD
Diane Johnson
Clyde C. Jones
Nik K. Jones
Steve Jones, PhD
Gene E. Kalbus, PhD
David Kanne, PhD
Joseph C. Kaufman
Gary Keehner
Elizabeth Keller, PhD
Birjees Khawar
Juhee Kim, PhD
Laura Kingsford, PhD
Larry Klein
Timothy Kneebone, DPM
Ralph J. Knights, PhD
& Jacquelyn K. Knights
Bette Korber, PhD
Paul Kraatz, PhD & Loretta Kraatz
John D. & Carol J. Kulluk
Shelly Kumar, PhD
Joyce Kunishima
Luda Kuprenas
Katherine C. & Richard Kurjan
Liz Labrador
Pete Ladjimi, Jr.
Bill Lake, PhD & Marien Lake
Bill Lane
Joseph A. Latter
Donald Lauda, PhD
Karen Laurence
Jennifer M. Lee
Jooae Lee
John Leeb
Lawrence S. Lerner, PhD
Edward K. Lesniewski
George Liarakos
John Liarakos
Van T. Lieu, PhD
Charles Lindeman
Evie Lindeman
Rebecca D. Lizardi
Robert L. Loeschen, PhD
& Sharon Loeschen
Luis A. Lomeli, MD
Marco Lopez, PhD
Anh Ngo Long, MD
Timothy Mac Andrew
Robert Mac Phee, PhD
Larry Manes, PhD
Tom Maricich, PhD
& Suzanne Maricich
Debra Marr-Leisy, PhD
& William E. Leisy
Brian G. Marsi, PhD

Kenneth L. Marsi, PhD
& Irene Marsi
Kenneth Scott Marsi
Marianne Marsi, PhD
& Lewis E. Manning, PhD
Robert Maxson, PhD
Darwin L. Mayfield, PhD
& Norma Mayfield
Patrick & Mary McKay
Fran & Chuck McLuen
Dayna Marie Melton
Margaret Merryfield, PhD
& Kent Merryfield, PhD
Dorothy H. Middleton
Mary Milkovich
Billy Minski
Lauren N. Miyaguchi
Cheryl Mock
Mary Martha Molina, MD
Sonia Molina, DDS
Dr. Michael Monahan Estate
Michael A. Moore
Jack Munsee, PhD
Michael Mustillo
Joanne A. F. Myers
Glenn Nagel, PhD &
Greta Nagel, PhD
Kensaku Nakayama, PhD
James Neely, OD
Larry Neisess
John S. Nelson
Ba Thu Nghiem, PhD
Sineth Nguon
Josephine Nguyen
Ted Nguyen
Richard Nighswonger
James Noblet, PhD
Stuart Nowinski
Craig Ogawa
David R. Oliver
Raymond E. Ouellette
Craig C. Owens, MD
Sofia Papatheodorou, PhD
Helen & Bernard Paradise
Barbara Parks
Arie Passchier, PhD
& Deanna Passchier
Melanie M. Patterson
Monica Patterson
Thomas Payne
Robert C. Pedersen, PhD
Louis E. Perlgut, PhD
Mark C. Phillips
Robert E. Phillips Jr., DDS
Henry N. Po, PhD
Michael L. & Mary Porter
David Porzio, MD
Robert Proffitt
Thomas E. Pruitt
Thomas G. Quaid
Sandra Qüen
Felix & Lucette Raimondo
Ray & Christina Redfern
Christopher A. Reed, PhD
Gary W. Reichard, PhD
James C. Richards
Bruce Rickborn, PhD

William C. Ritz, PhD
Karen M. Rogers
Theresa Rohr-Kirchgraber, MD
Norman C. Rose, PhD
Dorothea-Ann J. Rzasz
Najat & Issam Saliba
Nicholas C. Salvati, DDS
Armando Samaniego, MD
James Sample, PhD
Spencer & Jeannette Santage
Mary & Marlin Scarlett
Harry G. Schmus
Erika Schneider, PhD
Kimberly A. Schugart, PhD
Frank Scott
Bret Seaton
Nail M. Senozan, PhD
& Diane S. Senozan
Alan J. Senzel, PhD
Steve Shanklin
K. Y. Shen, PhD
Shu-Chin Shen
Sandra Shereman
Kahirup J. & Joseph Shorr, PhD
William A. Sinclair, PhD
Jeanne Sinsheimer
David M. Smith, PharmD
Marianne Sommerville-Koonings, MD
Robert Soukup
Terri Shaw Speakman, PhD
Jon Spencer
Lena Sripitisawad
Leo Stemler
Leticia & Mitchell Summer
Nhan Ta
Quoc Ta
Mare Taagepera, PhD
Kiana S. Tabibzadeh
Yucel Tavolara
William A. Thomasson, PhD
Gary Tietavainen
Celestine Tillman
Hoa B. Trinh
Hendrick Tuinstra, PhD
Ercan Unver, PhD
Lily N. Vuong
Ngoc-Anh Thi Vuong
Sigrid G. & Tom Wagner, PhD
Michael P. Wanger, MD
& Michele Tondreau
John Watcher
Carl Wayne
Gregory L. Whitaker, DPM
Carter White, PhD
Jon Wiedenman
Richard H. Wilde, PhD
& Louise Wilde
Delyse R. (Büus) Williams, MD
Curtis Winters, MD
Jack L. Wolf
Marco Wong, MD
Sandra Stoner Wright
Gerald E. Wuenschell, PhD
Leslie K. Wynston, PhD

EXPENDITURES FROM PRIVATE FUNDS

by Ken Marsi

Because of the generosity of alumni and the industrial and business community, the department has been able to maintain its programs of excellence in the face of inadequate funding from the state. *Income to the department from private sources exceeds state funding for operating expenses.* We use private funds with great care because they represent expressions of trust and good will from our donors. Also, there are many needs but limited resources, so we must carefully prioritize our expenditures. Our total cash income for the 1996-97 fiscal year ending June 1, 1997 was \$47,763.70 and our total expenses were \$29,639. The disparity between income and expenses is accounted for as follows: a significant portion of gift income was designated to be added to our scholarship endowments, specifically, the Henderson Memorial Fund, the Stern Memorial Fund, the Monahan Memorial Fund and the Marsi Scholarship Fund. Only interest from these funds can be used to award scholarships. In addition, gifts were received this fiscal year for projects for the coming fiscal year.

Scholarships and awards	\$11,978
Equipment for instruction	8,437
Department Newsletter	3,481
Seminar program	3,388
Advisory Council expenses	688
Recruitment and hiring expenses	633
Alumni development	588
High school chemistry conference	200
Printing costs	154
Miscellaneous office expenses	92
Total	\$29,639

ALUMNI NEWS

We very much appreciate the time you have taken to inform us about yourself, and we always 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:** (562) 985-8557. **E-mail:** kmarsi@csulb.edu.

1954

Frederick W. Howe, BS Physical and General Science. "Although I was not an original '49er," I enrolled at Long Beach State, as it was then called, in the spring of 1951. Classes at that time were held in some of the Whaley Company's converted apartment buildings. Sometimes we would hold class in a bedroom, sometimes in a living room. It was congested but fun. My love for chemistry came to Long Beach State with me as I transferred from River Falls State Teachers College and UCLA with 30 units of chemistry. So three years later, in June 1954, I graduated from Long Beach State College with a degree in Physical and General Science. I believe that I was the first to receive a Bachelor of Science Degree. I continued at Cal State and received a General Secondary credential in August of 1957 and began teaching seventh

grade science at Lamson Intermediate for the Garden Grove Elementary School District. After two years I taught chemistry and math at Buena Park High. Eventually I entered the construction industry and have been instrumental in constructing many major buildings in Orange and Los Angeles Counties." [Editor's note: the Physical and General Science degree was a forerunner of the BS Degree in Chemistry. The first BS Chemistry degree was awarded in 1958, although the Department of Chemistry did not come into existence until 1961.]

1962

Robert O. Hutchins, MS



Dr. Robert O. Hutchins

(PhD, Purdue University), continues as chair of the Chemistry Department at Drexel University in Philadelphia, Penn. Bob recently wrote, "It was my experience at Long Beach that determined the direction of my career. This is in addition to the fact that Gail and I met at Long Beach." **Dr. Gail Hutchins**, a graduate of CSULB, teaches at a community college in the Philadelphia area and is also a chemical safety consultant.

Karen Lay O'Malley, BS,



Karen Lay O'Malley

works as manager of Customer Education, Computer Systems Group with Unisys Corp. in Blue Bell, Penn. "My chosen major of physical chemistry required a healthy dose of math and physics which qualified me for a summer job in the Rocket Division of North American Aviation—a set of circumstances which led my life in a different direction than I then imagined. At North American I encountered computers for the first time and learned to program, writing code in FORTRAN. At NAA I met and married a physicist from Berkeley, who was working as a trajectory engineer on the flight path for Apollo. Patrick and I have two sons; our oldest has his PhD from UC Irvine in computer science and our younger son is an artist/musician/poet/dreamer, working and living in Hermosa Beach. My classmates were **Richard Parker, Arie Passchier, Richard Pelly** and **John Jasnosz. Fred Dorer** was one year ahead of us."

1963

Joanne Myers, BS; MS

1967 is an industrial hygienist with the State Compensation Insurance Fund in San Francisco. "I continue to work as a field industrial hygienist—going into a lot of mostly dirty workplaces. In recent years I have also spent a good deal of attention to indoor air quality problems in office and commercial buildings. There is lots of opportunity for good biochemistry and toxicology in this work, but not the time and political climate for research. It is generally less stressful to do work in an industrial environment which has more well-characterized exposures. I continue to benefit from a solid foundation at CSULB."

1964

Beverly J. Garrigues, BS

(MA, National University), is a self-employed psychotherapist specializing in marriage, family and child therapy. "My husband, William, has retired and is now a computer consultant. Our daughter, Trisha, a CSULB alumna, is married and recently fulfilled a dream of owning another horse. Son, Jonathan, works for Microsoft in Seattle. William and I continue to live on a ranch with a cat, two dogs, 15 ducks and 12 geese!"

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

Roger Clark, BS, MS 1966

(PhD, U of Utah), completed his 20th year with Atochem/Pennwalt. Twin sons, Jim and Bill, received, respectively, a BS in mechanical engineering and a BS in electrical engineering during the past year.

James Myrtle, MS (PhD, UC

Riverside), serves as Director of Medical Affairs for Chiron Diagnostics in Norwood, Mass. "My career continues to focus on the design and development of medical diagnostic tests and devices. One that I started development on 14 years ago, the PSA test, has transformed prostate cancer diagnosis and management, and continues to evolve biochemically and clinically. My oldest son is candidate for a PhD in aeronautical engineering at UCLA, and my daughter, a UC San Diego graduate, is an art director in San Diego. My youngest son is in college."

1967

David Fagerburg, BS (PhD,

U of Washington), is Research Associate in polymer chemistry with Eastman Chemical Co. in Kingsport, Tenn. "I continue to work in the area of weatherable copolyester sheeting. We have commercialized our first-generation product based on my research. The product has thus far made it into some bank signs (i.e. new Wells Fargo signs in Calif.), gas station signs and Coke vending machine faces that have a thermoformed shape of a Coke bottle projecting from the face. Chemistry is still fun after all these years. My wife and I continue to enjoy scuba diving together and also attempting to spoil our seven grandchildren."

Ralph J. Knights, BS (PhD,

Purdue), "I am still with New Zealand Milk Products, working for the dairy farmers of New Zealand. I have all of the development projects and professional staff in R&D reporting to me." Ralph reports that his brother, **Evord Knights (BS 1964, PhD Purdue)**, works for Gemini, a company specializing in assisting companies that are reorganizing, restructuring or downsizing. His and Betty's home base is Gainesville, Ga. Evord's work takes him all over the world, which enables him to extend his list of sighted birds and to visit numerous parks in new places. Ralph, Jackie and son, Craig (13) live in Santa Rosa.

1968

James R. Scott, BS (DDS,

USC), "I have remained a staff dentist at a rural migrant health center in the San Joaquin Valley for the past 15 years. I continue to win the battle against cancer with an alternative therapy diet. My wife, Michele, plans to begin dental hygiene training next year. We are challenged by and enjoy our 2- and 4-year-old boys, Charlie and Kevin."

Harry Schmus, BS, is Senior Scientist/Technical Support with Hitachi Instruments in Danbury, Conn.

Gloria Shelton, BS, works as Senior Account Representative for Baker Industrial Chemicals in Bellingham, Wash. "After being 'down-sized' from Calgon Corp. after 16 1/2 years, I was hired by BIC to oversee the water chemistry at the ARCO refinery in Cherry Point, Wash. I am co-authoring a paper to be presented at the International Water Conference in Pittsburgh, Penn. in November, titled 'Demeralizer reconfiguration increases capacity and saves money.'"

1969

Reid H. Bowman, BS (MS, Princeton; PhD, UC Santa Barbara), has retired from Dow USA and is now a partner with VTI Technology Vision, Inc., a water treatment firm based in San Gabriel. Reid lives in Ojai.

Dr. Reid H. Bowman

1970

Michael Gardner, MS (PhD, UCLA). "I retired from TRW in April of 1996, shortly after I returned from my last assignment in France. A year in Paris was a nice way to end a 29-year association with TRW. My assignment before Paris was to design and construct a chemical plant for the production of 5 million pounds annually of air-bag propellant. It was that assignment that brought me to Arizona, and Lynn and I have stayed here. I have been very busy this last year, writing and starting a sputtering photography business. Yes, there is life after chemistry!"

William Hulbrock, BS, MS Biochemistry 1974, is a group leader at ICN Biomedical. Bill has been appointed to the Chemistry and Biochemistry Advisory Council and participated in a panel discussion on "Careers in Chemistry" presented to undergraduate students in the spring.

1971

James R. Donnelly, BS, is director of Environment Technology for Kvaerner Metals in San Ramon. "I have spent more than 25 years in the environmental engineering field developing and applying state-of-the-art technologies for air, water and soil pollution control. I am the primary inventor for a number of air and soil treatment process patents and am active in national and international technical associations. I am a member of the Board of Trustees for the Institute for Professional Environmental Practice."

Paul Schuman, BS, is Holistic Health Practitioner in Oceanside and is also a licensed real estate broker. "I own a company 'Problem Solvers' that negotiates debt and helps restore credit and avoid bankruptcy for companies with cash flow problems." He and Glenda have a son, Kyle (10).

1972

Christopher Appleton, BS, continues as a manager with McDonald's Corp. at the company's headquarters in Illinois. He is currently serving on the Board of Examiners of 1997 Malcolm Baldrige National Quality Award.

1974

Robert C. Cole, BS, is a Research Scientist with The Aerospace Corp. in El Segundo. "I have used my laboratory training to fabricate micro-electronic devices for space applications. I have published several papers for the fabrication of novel electronic devices that are immune to ionizing radiation."

Randy Estrada, BS (MD, U of Guadalajara), spent his residency at St. Joseph's Medical Center in Paterson, N.J. He is presently Staff Pediatrician with Kaiser Permanente Medical Group in Riverside. "My wife and I had our first baby, born Dec. 28, 1996, after 14 years of marriage!"

Pete Ladjimi, Jr., BS, MS 1976, begins his second year of graduate studies in analytical chemistry at UC Riverside where he is a teaching assistant. He has finished his course requirements.

William Moody, Student (MD Autonomo Guadalajara, Mexico), is staff pediatrician at the Fallbrook Hospital in Fallbrook, Calif.

1975

Richard A. Oelschlaeger, MS, is a medical microbiologist and supervisor of the Microbiology Laboratory at the Veterans Administration Medical Center in Long Beach.

1977

Ray Calloway, BS, retired four years ago from Aerospace Corp. "I have many hobbies: golf, woodcarving, working on my '66 Mustang, gardening, playing the keyboard, working with my computer and being an attentive grandfather."

Alan Cunningham, MS Biochemistry (PhD, UC Santa Cruz), has retired as a faculty member at Monterey Peninsula College, but works on a part-time basis as the college's environmental health and safety officer. He lives in Carmel Valley.

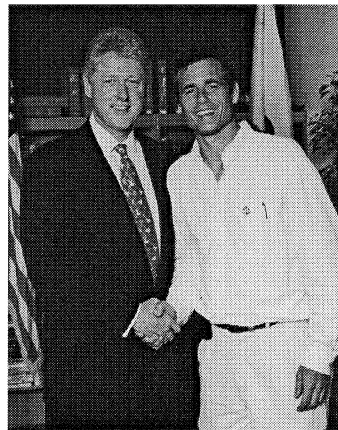
Larry Neissess, MS Biochemistry, is a research chemist with the Los Angeles County Sanitation Districts and works in Whittier. He and Mrs. Neissess have three children, ages 4 and 2 (twins). "My biggest projects have dealt with the health effects of using reclaimed waste water for ground water recharge."

Gayle Doyle Westoff, BS, lives on a ranch in Idaho. "I used to work with David Oliver in Dr. Stern's laboratory. I remember frying a lot of abalone in that hood." [Editor's note: No more food in the laboratories!] Gayle was an undergraduate assistant in the Chemistry Stockroom.

Sandra Stoner Wright, MS Biochemistry. "I am currently working toward a secondary teaching credential at San Jose State University and hope to teach high school science next year."

1978

George Green, BA (DDS, USC), is a self-employed dentist in Los Alamitos. "In addition to maintaining a private practice, I have been an adjunct faculty member at Cypress College School of Dental Hygiene for the past 10 years."



Tom Johnson with a friend!

Tom Johnson, BS (MS U of Washington), owns a photography business in Los Angeles. During the 1996 election he served as official photographer for the California Democratic Party.

Luis Lomeli, BA (MD, UCLA). "I have written several items, including a medical/technical book which is accompanied by a tape of heart and lung sounds and a large medical atlas in English and Spanish. My atlas is posted at USC School of Medicine and

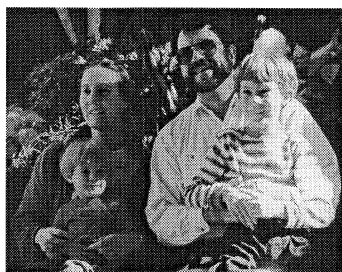
Drew Medical School as well as in many medical colleges in Mexico. Of most interest to me is my research into immune-mediated contraception. So far I have not been too successful in this area; as a result, I have ended up with a bunch of rabbits! Luckily, I have found a person who loves to eat rabbit meat. I am currently working on an extensive book on dermatology; I must have the largest collection of photographs of common as well as esoteric skin lesions."

Marianne Marsi, BS (PhD, UCLA), is involved with DuPont's Teflon polymer sales and customer service. Her office is in Chestnut Hill, Del. She and her family live in West Chester, Penn.

Robert Proffitt, BA. "I worked at Children's Hospital of Los Angeles for the past six years in the research labs of the Autologous Bone Marrow Transplant program, studying neuroblastoma and supporting their computer needs as a programmer/researcher. I designed a computer-controlled digital imaging microscope system and published a paper, 'A fluorescent digital image microscopy system for quantitation of relative cell numbers *in situ*,' in *Cytometry* and coauthored a second paper, 'A micro-computer program for calculating population doubling time *in vitro* and *in vivo*.' In August of 1996 I left the hospital to work for Douglas Aircraft in Long Beach, where I will be working with various computer projects and client/server databases. Now I live only five minutes from work. Pattie and I have been married for 13 years, and our two boys, Matthew and Eric, are 11 and 12. They are busy with school and hobbies, and both of them play trumpet in the elementary school jazz band.

Randall E. Smith, BA (MS, West Coast U), a materials engineer with McDonnell Douglas Aircraft Military Transport in Long Beach, has returned to Long Beach after six months of contract work at Gulf Stream Aerospace in Savannah, Ga.

Malcolm Windsor, BS, is an environmental engineer with the Department of Defense and lives in Cabot, Ark. He is currently completing a master's degree dealing with pollution abatement systems for homes. "My research has identified carcinogens, as well as pathogens that must be dealt with."



Dr. Gerald Wuenschell and family.

Gerald E. Wuenschell, BS (PhD, USC). "I am teaching organic chemistry at California State University, Los Angeles, although not on the tenure track. I find working with the students very rewarding. I only wish that I had more opportunity to do research. Carol returned to the Center for Craniofacial Molecular Biology at USC as a member of the research faculty." The Wuenschells have 2 sons, Arthur (7) and Alex (3).

1979

Steve Castellino, BS, is Senior Research Scientist in the Agricultural Chemicals Division of Rhone-Poulenc in Research Triangle Park, N.C.

Jeffrey Hagenah, BS (PhD, UCLA; JD, UC Berkeley), is a patent attorney with Burns, Doane, Swecker and Mathis in Menlo Park. "My practice is all chemical patent prosecution and opinion work. I spend a large portion of my time writing patents on all types of chemical inventions ranging from new pharmaceutical compounds to batteries and blood testing reagents. I am the in-house expert on organic chemistry and get to use my chemical training on a daily basis. The inventors I work with appreciate being able to talk with someone who understands synthetic organic chemistry." Jeff worked for many years with Chevron before entering Boalt Hall law school. He and Pam have a 1-year-old daughter, Laura.

Steve Jones, MS (PhD, UC Riverside), is owner and manager of Jones Environmental Laboratories in Fullerton.

Robert Maiden, MS, is president and owner of Killdee Scientific Glass Co., Inc., in Santa Fe Springs. "I was awarded US Patent 5,580,365, 'Method of making a glass diffusion cell,' last November. Our annual sales increased 50 percent last year!"



Patrick McKay and family.

Patrick McKay, MS, is Senior Research Associate with Genentech, Inc., in South San Francisco where he works in the Recovery Sciences Department. His wife, Mary, was voted "Outstanding Leader" for her work with the Girl Scouts program. Son, Brian (11 1/2) graduated from elementary school with honors. His interests are basketball and playing the flute. Daughter, Allison (7 1/2), is active in Brownies and stamp collecting. "I've worked on a variety of projects this past year, all at different scales, and I enjoy the challenges of designing process steps which ultimately get put into place for the manufacture of a biopharmaceutical. I've finished my 16th year at Genentech and am involved in helping teach a course on biotechnology on site. My sections deal with protein structure and function, as well as different types of chromatography."

Donald L. Muir, BS 1979 (DMD, Washington U), practices dentistry in partnership with **Dr. Nicholas Salvati (Student 1979, DMD, Washington U)** in San Clemente.

Delyse Buus Williams, BA (MD, UCLA), works for Kaiser Permanente in Oakland, specializing in ophthalmic plastic and reconstructive surgery (plastic surgery of the eyelids, tear drainage systems and orbits). Her husband is an attorney for State Farm Insurance.

1980

Susan Torian Brentnall, BA (PharmD, UC San Francisco), is pharmacist-in-charge at the College Hospital Pharmacy in Cerritos. She presented a talk on "Careers in Pharmacy" to the Student Affiliates this spring. Susan plans to spend a year in Japan studying the Japanese medical care system.

Victor Cachia, BA, (DPM, California College of Podiatric Medicine), owns podiatric clinics in Mission Viejo and Irvine. He has a home page on the Internet which may be visited at <http://www.podiatric.com>. Vic is Diplomate, American Board of Podiatric Surgery; and Fellow, American College of Foot and Ankle Surgeons.

Brian Dubow, BS. "I manage F-22 Advanced Tactical Fighter and Joint Strike Fighter Programs at San Diego Aerospace Co. I also managed a student space program with undergraduates from UC San Diego and San Diego State U which flew on the space shuttle, Endeavor, June 21, 1993. This successful experiment is now on permanent exhibit at the San Diego Aerospace Museum. My wife of 13 years, our son, and I are very active with the San Diego Zoological Society. I sit on the Board of Directors of the Charles Lindbergh Society and the American Institute of Aeronautics and Astronautics."

Leslie Gilpin, Student, Chemistry Minor. "This is my 15th year as a science teacher for the Long Beach Unified School District. I taught Biology, Chemistry, Earth Science and coached girls' varsity soccer for eight years at Lakewood High and am now in my fifth year at Millikan High as an integrated science teacher. There I teach college prep and non-prep students together in a course that combines fundamental concepts in the sciences."

Donald Honda, BA (PharmD, UC San Francisco), is Assistant to the Director, Pharmacy Operations with Kaiser Permanente in Roseville. "I was recently promoted to my new position after completing six years as Chief Pharmacist at Kaiser Permanente, Rancho Cordova. I enjoy the variety and challenge inherent in my job. I'm married with three boys 3, 6, and 8."

K. Scott Marsi, BA (MS, San Diego State U), is Manager of the Detergents and Personal Care Products Division of Rhone-Poulenc, a French-based chemical company with U.S. offices in Cranbury, N.J. He and his family live in West Windsor, N.J.

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

1981

Thomas Harmon, BA (MS, USC; MD, USC), is a general surgeon with the Thomas-Davis Medical Center in Tucson, Ariz. "I work with residents from the University of Arizona Medical School; U of A recently made me a clinical associate professor. Thomas-Davis Medical Centers have voted to unionize. Most of us have mixed viewpoints on this issue." Tom and Beth have three children, Tyler (5 1/2), Casey (3 1/2), and Daniel (9 months). Tom enjoys hiking and mountain biking in the mountain ranges outside Tucson.

Larry Klein, BA, is Laboratory Director/Regional Manager for American Environmental Network in Pleasant Hill. "I split my time between labs in San Francisco and Portland and devote my free time to recording and touring with my band, Dervish."

Huong-Anh Ngo Long, BA (MD, UC Davis), specializes in physical medicine and rehabilitation and is Medical Director of the Rehabilitation Service at San Pedro Peninsula Hospital.

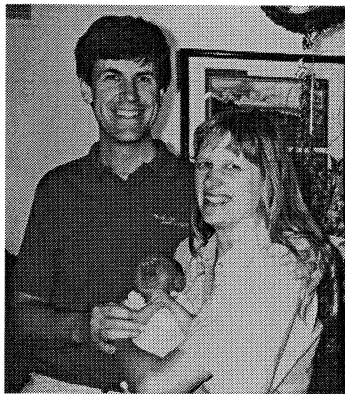
Larry Manes, BS (PhD, UC Santa Cruz) is Senior Manager, Contract Manufacturing for Gilead Sciences in Foster City. "My wife, Cristina, and I just had our first child, Nicolas Alejandro Manes, born on April 27, 1997."



Dr. Larry Manes.

James Neely, Student (DO, U of Health Sciences), is a self-employed physician in Gallatin, Mo. He was recently board certified in geriatrics and family medicine.

Marianne Sommerville, BA (MD, USC) is an obstetrician-gynecologist with Kaiser Permanente in San Diego. "I never imagined life could be so busy! Our four children keep my husband and me on our toes. We both work full time at Kaiser."



Jeff and Pam Jetter with son, Jared.

1982

Jeff Jetter, BS, and Pam (Hubler) Jetter, BS. Jeff is Senior Chemist with Honda R&D, North American, Inc. in Torrance. The Jettets recently became parents for the first time, welcoming a son, Jared Jeffrey, born on April 23, 1997.

1984

Lori Jo Childres, BA (DMD, Washington U School of Dentistry), lives in Redding and is married to David Sydow, MD (BA 1984, Biology). Lori and David have a daughter, Kaitlin (3). Lori is currently on leave from the practice of dentistry to be with her daughter.

Eric J. Derbyshire, BA (MBA, U of Phoenix), is Business Group Leader for Watlow Controls in Winona, Minn. "It's been a challenge to change industries and employers—specialty chemicals at ICI Fiberite to industrial electronics at Watlow—but I'm glad I made the move. My chemical background, however, continues to serve me!"

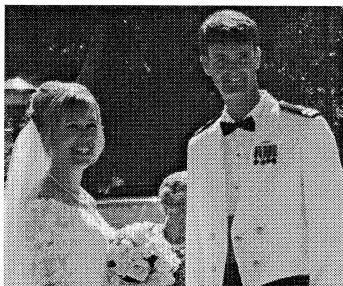
Dwight Gergens, BS (MS, UC Irvine; MBA UC Irvine), is Senior Business Analyst at Ablestik Laboratories in Compton. "After technical service and then marketing, I have made a career shift into computers. Ablestik implemented a new system and after learning that system, and combined with my business knowledge, I was promoted to Senior Business Analyst. My wife, Bridget is expected to complete her dissertation at USC this fall and will receive her EdD degree."

Craig Owens, BA, practices as a general and laparoscopic surgeon. "I completed my residency in general surgery at Loma Linda U and a fellowship in laparoscopic surgery with the Richmond Surgical Group. I have joined the RSG, a team of nine surgeons, as a new associate. I am enjoying life in Richmond, Va."

Theresa M. Rohr-Kirchgraber, BA (MD, Cornell U), is Director of Ambulatory Education at the University Hospital, the State U of New York at Syracuse. "We keep busy with our three children and enjoy the craziness. I love being a physician and am focusing more on adolescent medicine and the Women's Health Initiative at SUNY-HSC at Syracuse."

1985

James Brophy, BS, is active in the East Village Association in downtown Long Beach. He is the proprietor of Chatz, a coffee house located at E. Broadway and Linden, and a restaurant, Mango Fool, between First Street and Ocean.



Patricia Healy and husband, Phil.

Patricia Healy, BS, MS 1988, is Associate Attorney with Townsend, Townsend and Crew in Palo Alto. "This fall I will be joining the litigation group in Palo Alto. My husband, Phil, and I (we were married in August, 1996) enjoy living in the Bay Area." Phil is a naval officer who is currently attending the Naval Post-graduate School in Monterey.

Martha Molina, BA (MD, UC Irvine), is Vice President of Staff Model Clinic Operations for Molina Medical Centers with headquarters in downtown Long Beach. Martha was married to Dr. Faustino Bernadett on May 17 of this year.

1986

Jason Brown, Student, Chemistry Minor (DDS, UCLA), owns his own dental practice in San Diego. Jason and Laurie were married in September, 1996. "There have been a lot of technological advances in dentistry recently, especially in cosmetic and adhesive dentistry—thanks to chemistry! Restorations are getting stronger and better and most often look like natural teeth."

Annette Guerrero, BA, lives in Scottsdale, Ariz. and commutes to California where she is employed by the Air Resources Board.

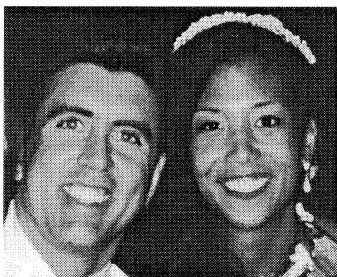
Richard Nighswonger, BA, is an adhesives and sealants sales specialist with Loctite Corp. and lives in Seal Beach. "I have worked for Loctite since January of 1996. The variety of products requiring adhesives for their manufacture is amazing and is the most interesting part of this job. In August of 1996 my wife, Tish, gave birth to our second son, William. His big brother, Russell, is now 4. I get the distinct feeling that when Russell grows up he will surely enjoy a successful career in a field where he can use his sharp negotiating skills."



Dr. Van Woo and family.

Van Woo, MS (MD, UC Irvine), practices as a radiation oncologist with Radiation Oncology Services in Tulsa, Okla. "Karen and I have been busy with the birth of Rebekah Grace on July 3, 1996. Her brothers, Matthew (5) and Christian (3), love her. I have been busy studying for my oral boards in radiation oncology."

1987

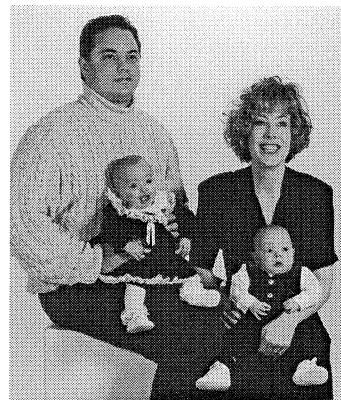


Dr. Ray Gritton and Dr. Liva Yates

Ray Gritton, BA (MD, Hahnemann Medical U), has completed his internship in physical medicine and rehabilitation. Ray was married to Dr. Liva Lee Yates at the site of the Korean Friendship Bell in San Pedro in September 1996. Liva received her MD from UC San Diego.

Randall Jensen, BS, and Darlene Jensen announced the birth of their daughter, Emma J. Jensen, on March 1. Randy is completing his PhD in Philosophy at UCLA.

Tim MacAndrew, BS, BS Computer Engineering, 1989, works as a software engineer for California Microwave-GED in Woodland Hills.



Dr. Larry Matsumoto and family.

Larry Matsumoto, BA (MD, Creighton U), has completed his residency in the Department of Obstetrics and Gynecology at Mercy Hospital and Medical Center in Chicago. He will begin a fellowship at UC San Diego Medical School this fall. Larry and Susan are the parents of twins, Meghan Susan and Daniel Larry.

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. She graduated from dental school at the top of her class!

Hugh Cecil, BA Biology, Chemistry Minor, (MD, UC Davis), has completed his training in diagnostic radiology at the U of Kansas, Wichita, and has started a fellowship in angiography and interventional radiology in Albuquerque, N.M.

Kerry DeGroot, BS Biochemistry (MD, Georgetown U), is an instructor in the Department of Anesthesia at Georgetown U. His specialty is heart surgery anesthesia. His wife, Jacqueline, is a pathologist who recently authored a chapter on trypanosomes for a medical reference work.

Ken Lesniewski, MS, works for Huntsman Corp. which purchased the majority of Texaco Inc.'s Petrochemical assets in 1994. Texaco was Ken's former employer. "I am still in sales, working out of my house and calling on the major non-ionic surfactant purchasers in the 11 western states."

1989

William Walton, BA (DDS, Creighton U) has his own dental practice in Long Beach. He presented a program to undergraduates, sponsored by the Student Affiliates, titled "Careers in Dentistry," this spring.

Carter J. White, BS (PhD, Iowa State U). "I am presently busy preparing and prosecuting chemistry-related patent applications. I recently passed the Patent Bar Examination and will soon be registered as a patent agent."

1990

Miki Aurang, BS Biochemistry (MD, Washington U), is a resident in internal medicine at the UC Irvine Medical Center. Husband, **Rick Csintalan, Student 1991 (BS Physical Therapy, 1987)**, also received his MD degree from Washington U where he graduated first in his class. He is currently an intern in orthopedic surgery at the UC Irvine Medical Center.

Ed Barley, BS, is a forensic scientist with the Los Angeles County Sheriff's Department. This spring he participated in a panel discussion on "Careers in Chemistry" for undergraduate chemistry majors.

Marcel Goldberg, BS Biochemistry (MD, U of Kansas). Marcel has completed his family practice residency with the Merced Family Practice Residency Program and has moved to Camarillo where he and Judy are building a home. He works with a family practice group there. Tommy is now 2 years old.

David Porzio, BS Biochemistry (MD, UC Irvine), is resident physician at the U of Massachusetts Medical Center, specializing in internal medicine and will be completing his residency in July 1998, followed by a fellowship in cardiovascular diseases. He is married to **Pam Garcia (Anatomy & Physiology, 1990)**.

Jon Ranier, MS Chemistry (PhD, UC Riverside), has been appointed Assistant Professor of Chemistry at Arizona State University.

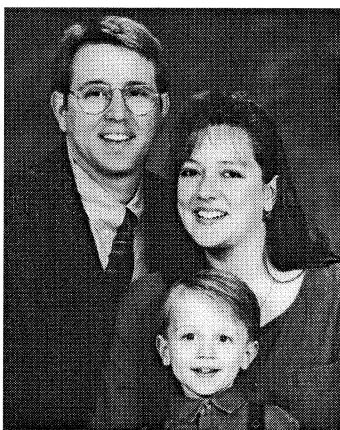
Kiana Tabibzadeh, BA, MS Chemistry, after serving as a part-time chemistry faculty member at Irvine Valley College, El Camino College and Mount San Antonio College, has accepted a full-time, tenure-track position at Irvine Valley College.

Michael Wanger, BS Biochemistry (MD, U of Kansas), is an internal medicine physician with Morton Plant Mease Primary Care, Inc. in Clearwater, Fla. He was married to Michele Tondreault in October 1996, and completed his residency training in internal medicine at Scripps Clinic, San Diego in May 1997.

Michael Weiler, Student, Minor in Chemistry (MD, Medical College of Wisc.), is a hospital-based internist and lives in Fountain Valley.

1991

Kimberly Corkery, BS. "My husband's custom home-building business is growing which means my real estate business also keeps me busy. Our oldest child will be starting kindergarten this fall, and her brother will soon follow."



Dr. Robert Doebler and family.

Robert Doebler, BA (PhD, U of Virginia), received his PhD in May of this year. He is looking forward to a career in drug delivery research.

Joyce Harpt, BS, is a Materials and Process Engineer with Boeing (formerly McDonnell Douglas) in Long Beach. "I have been working extensively with the pollution prevention team exploring sealing compounds to replace the chromated sealing materials that are used in aerospace applications. Also, I have been spending time finding replacements for the CFC-blown foams which will no longer be manufactured. I have been married eight years and have two children."

Clyde C. Jones, BS Biochemistry (MS, Tufts U), is an applications analyst with Biogen in Cambridge, Mass. Clyde was married on March 15, 1997 in Portugal.

Mitra Kashanchi, MS, is lead chemist with Chevron Products, Inc., in El Segundo. "I was promoted to lead chemist this year and have been working for Chevron for six years. My husband is in the real estate business, and he and I have two daughters: Melanie (5 1/2) and Natalie (3). I have applied for the MS program in Chemical Engineering at UCI."

John D. Molloy, BA, (JD, Pepperdine U) is Deputy District Attorney in the Riverside District Attorney's Office. John graduated *Magna Cum Laude* from Pepperdine Law School in 1996.

James Noblet, MS (PhD, UCLA), left his position with Aerospace Corp. to become Assistant Professor of Environmental/Analytical Chemistry at the U of Wisconsin, Green Bay. "I will be teaching undergraduate courses in analytical and environmental chemistry, and graduate courses in environmental science, as well as doing research on the fate of pollutants in aquatic systems."

1992

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

Brian Smith, BS Biochemistry, is completing his PhD at the Medical University of South Carolina in Charleston. He is studying the metabolism of long-chain fatty acids (e.g., C₂₄) and associated metabolic disorders afflicting neonates. And his wife, Ana Mari, have a newborn daughter, Hannah, and live in Folly Beach, N.C. His spare time is spent working on his "fixer-upper" home. Ana Mari is business manager for a restaurant in Charleston.

Samuel Sperry, BS, was advanced to candidacy for the PhD in March, 1996 and hopes to complete the degree by June, 1998. "I will possibly continue marine natural products research as a post-doctoral fellow at the U of South Pacific in Fiji." Sam's thesis advisor is Dr. Phil Crews.

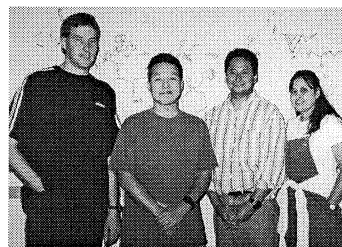
1993

Christian Balarie, BS Biochemistry (DDS, Northwestern University), is resident dentist with the Loma Linda Veterans Administration Hospital. "I am once again enjoying the Southern California weather!"

Keith Bogdon, BS, MS 1996, has completed his MS in Chemistry at CSULB and has finished his first year of law studies at McGeorge School of Law at University of the Pacific. He is interested in patent law. On June 1, he and **Daksha Kurani (BS, 1996)** were married. They met as students in the department in 1995.

Stephen Dell, BS, will complete his PhD in 1998. He is a research student of Dr. Robert Pascal, Jr. His work deals with the synthesis of cyclophanes and examination of intra-molecular, through-space interactive effects on their chemistry and spectroscopy.

Ronald Estrada, BS, was accepted to Nursing School at Rio Hondo College for the fall of 1997. He plans eventually to enroll in the CSULB Nurse Anesthetist Program.



Some of our graduates in chemistry and biochemistry PhD programs at UCLA. Left to right: Alec Greer, Jeff Ichikawa, Roy Avalos and Kauser Akhoun.

Alexander Greer, MS, completed his PhD in organic chemistry at the U of Wyoming and is now a post-doctoral associate of Dr. Christopher Foote at UCLA. While at the U of Wyoming he received the Sara Jane Rhoads Award and his thesis has been nominated for the best dissertation award. At UCLA he is studying photo-oxidation of *trans*-anethole in protic and aprotic solvents. Alec and Kristy Ann DiCario were married in August in Mesa Verde National Park in Colorado.

Jose E. Meza, BS Biochemistry. "I started my PhD in the fall of 1993 and joined Mary-Claire King's lab at UC Berkeley shortly thereafter. Dr. King decided to move to the U of Washington (Seattle) in the summer of 1995, and I moved with her to finish my PhD. I have been in Seattle almost two years and plan to complete the PhD either by the summer or fall of

1998 from UC Berkeley. I married a wonderful person, Rebeca Diaz-Meza, in May of 1996. She is a graduate student at UCLA in the Department of Education but is finishing her degree in the Seattle area."

Robert Rzasa, BS, continues as a PhD student at Texas A&M in synthetic organic chemistry. He has passed his preliminary examinations and hopes to complete his PhD during 1998. He has one publication in *Tetrahedron Letters*. He has synthesized the *boc*-protected metabolite, pateamine A, a promising anti-carcinogen. His wife, Rhonda, is employed by the alumni office at Texas A&M.

Greg Whitaker, BS Biochemistry (DPM, Scholl College of Podiatry), works as a transplantation coordinator/procurement specialist for the Inland Eye and Tissue Bank in Redlands. "Basically, my job is to facilitate tissues for surgical recovery, as well as being on the tissue recovery teams." Greg is scheduled to begin medical training at NOVA Southeastern University College of Osteopathic Medicine in Fort Lauderdale, Fla. this fall.

Jeffrey M. Whitaker, BS Biochemistry (MS, San Francisco State U), leaves his position as research associate at San Francisco State U to enter the California College of Podiatric Medicine.

1994

Nina Bao, MS, is a chemist with Soft Gel Technologies, Inc. in Commerce. "I've worked for this company for two years. I helped to set up the QC Laboratory and to develop assay procedures. Our assay procedure for evaluating flavinoid glucosides and terpene lactones in *ginkgo biloba* powder extract will be included in the next edition of *AOAC Standard Procedures* manual. Our laboratory has grown from three to eight persons."

Oren Beske, BS Biochemistry, is a PhD student in biochemistry at UC San Francisco. He has been awarded a National Science Foundation Pre-doctoral Fellowship. During the spring semester Oren participated in a panel discussion for the Student Affiliates at CSULB on graduate school opportunities, titled "Is a PhD for Me?"

Dilina Brassard, BS Biochemistry. "For the past 1 1/2 years I have been working as a contract employee at 3M in the Medical Products Division as a sterilization assurance lab technician. I moved to Minnesota almost two years ago. Now I am back in school at the U of Minnesota in the Carlson School of Management, study-

ing for an accounting degree. I live with my sisters and our three dogs and cats."



Nancy Gardner, MS 1997, with fellow graduate student, Daniel Ponce.

Nancy Gardner, BA, has completed her MS in chemistry with Dr. Marco Lopez. She joins the chemistry faculty at CSULB as a part-time instructor and will direct instruction in Chem 101, replacing Luda Kuprenas who has retired.

David Tenaglia, BS, MS 1996, is employed by Geneva Pharmaceutical, a division of CIBA which is located in Broomfield, Colo.

Stephen A. Westerhout, BA, has begun his fourth year of medical school at Loma Linda U. His two residency choices are anesthesia or obstetrics and gynecology.

1995

Jennifer Brook, BS Biochemistry, is a research chemist with Amgen in Thousand Oaks.

Kaiser Estrada, BS Biochemistry, is Manufacturing Associate for Amgen in Thousand Oaks.

Dana Marte Gilchrist, MS Biochemistry. "In addition to working at the UC Irvine Farm Elementary School, I am a doctoral candidate for an inter-departmental degree in Developmental Cognitive Neuroscience. I work in the Departments of Neuroanatomy and Pediatrics in the UC Irvine School of Medicine and help run clinical trials on children at the Child Development Center."

Gregory Gossage, BS, is a criminalist with the Long Beach Police Department. "I have been working at the LBPD for 1 1/2 years now and have been involved in crime scene evidence collection and photography, latent fingerprint development by chemical means and recently blood alcohol analysis. My chemistry and physics education at CSULB helped me greatly with my new job. I am currently in the MS degree program at CSU-CA, with about two more years to go. I'm planning to pursue a PhD in chemistry after my MS degree is completed."

Dana Haley, BS Biochemistry, has completed her second year as a PhD student in Molecular and Medical Pharmacology at UCLA. In the spring semester of this year she participated in a panel discussion for undergraduate students titled "Is a PhD for Me?"

Scarlet Hamamchian, BS Biochemistry, is a research chemist with Abbott Laboratories, Clinical Chemistry Division, in South Pasadena. She is currently working in the Technical Development Department in the area of process validation and vendor qualifications.

Jason Houghton, BS Biochemistry, is a sales representative for R. W. Smith & Co., a food service company based in Costa Mesa.

Thach Ho, BS, MS 1997, entered the PhD program in chemistry at UCLA this fall.

Jennifer M. Lee, BS Biochemistry, works as a chemist with Bachem in Torrance. Bachem specializes in the synthesis of polypeptides. "It was a real challenge to change from the college environment to a work environment. If you make the effort to understand the chemistry of it, the work here is interesting."

Julie Vincent, BS Biochemistry, is a lab technician with Bayer Pharmaceuticals in San Diego.

1996

Silverio Arano, BS Biochemistry, has begun medical studies at UC Davis this fall.

Neary Arpajirakul, BA, is a substitute teacher in the Long Beach Unified School District. "Although I am not working in the field of chemistry I use it and physics everyday in my life. When I'm not subbing, I paint and draw and make electronic musings on the Mac."

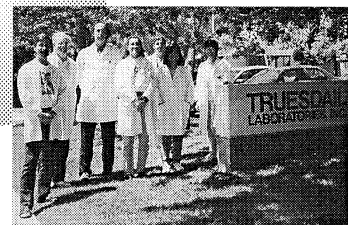
Leticia Arrellano-Summer, MS, has joined the faculty this fall as a part-time instructor with the responsibility of teaching and coordinating Chem 202.

Michael Barrett, BS Biochemistry, is Sales Associate in Orange County for SurgiCal, Inc., with headquarters in Blue Jay. His job involves selling neurosurgical instruments to neurosurgeons. He plans to begin work for the MBA in the fall.

Domenica Devine, BS Biochemistry, began the PhD program in

biochemistry this fall at UCLA. "My research with Dr. Judy Brusslan at CSULB will be helpful to me in my graduate work. I am traveling to New York for the opening of the 107th floor of the World Trade Center. This is the observation area which my husband, Michael, designed!"

Brett Krasner, Student, has completed his first year of medical school at Wayne State University in Detroit. "Medical school is fantastic! All the material is interesting and not too difficult to learn. I wish we had more time to savor the information rather than speeding through these courses so rapidly. If you speak with pre-med hopefuls next year, tell them that biochemistry at the undergraduate level—the full-year course—is well worth their time. We did the full-year version in incredible detail in three months!" Brett and Lisa have a son, Alex (2) and were expecting a second child in August.



A group of chemists at Truesdail Laboratories including two alumni: Joe Bramblet (second from left) and Sandra Quon (second from right). Not shown is alumnus, Dr. Norman Hester, Director of Laboratories.

Sandra Quon, BS, wrote recently "I am enjoying my new career as a chemist at Truesdail Laboratories. I am working under **Joe Bramblet (MS 1973)**, manager of the organic instrumentation department. I am currently learning EPA methods of sample preparation in the organic extractions laboratory. We mainly analyze water, soil, and air samples. I have also had the opportunity to work with HPLC in the analysis of automobile exhaust."

CHEMISTRY BIOCHEMISTRY



Some Members of the 1996-97 Graduating Class

Front Row, left to right: Nancy Shenouda, Yolanda Hassink. Second Row, left to right: Jamal Mousa Kahala, Girmachew Ayele, Caroline Klaess, Benjamin Turner, John Escobar, Ihab Abumuhor, Rachirong Vinyartn, Maria G. Meraz, Thu Anh Do, Tram-Anh Bui, Quinn Dong. Third Row, left to right: Dr. Darwin Mayfield, Dr. Ken Marsi, Cesar Salamone, Delaure Hage, Kyaw Zwa Lynn, Huyen Cong, Tramy Vo, Noucha Meallet, Lenore Landis, SuYin Young, Dung T. Banh, Jessamyn Nguyen, Vi Pham, Thach Son Ho, Abdallah Abu-Samrah, Jennifer Hueston. Last Row, left to right: Shadi Jaafar, Leonard Wheeler, Anthony Medak, Jeffrey Selander, Daniel A. Farney, Quoc Ta, Gil Ramirez.

**CSULB
CHEMISTRY AND BIOCHEMISTRY DEPARTMENT
NEWSLETTER
FALL 1997, NUMBER 22**

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

(562) 985-4941

e-mail: kmarsi@csulb.edu

CHEMISTRY BIOCHEMISTRY

Fall 1997, Number 22

Dear CSULB Chemistry Alumnus:

The faculty and I hope that you have enjoyed reading our 22nd 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 also are 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*: (Please continue on the reverse side of this page if needed.)

2. If you have enclosed a contribution, please enter the amount _____. You may choose a fund to support: Discretionary Fund; Henderson Memorial Fund; Monahan Memorial Fund; Pathos Memorial Fund; Scoggins Memorial Fund; Stern Memorial Fund; Marsi Scholarship Fund.

Kindly complete this questionnaire and enclose in the envelope provided. Thanks!

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Department of Chemistry and Biochemistry
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