

# CHEMISTRY

## BIOCHEMISTRY

For past and present students and friends of Chemistry and Biochemistry at California State University, Long Beach • Fall 2001 • Number 26

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## Dr. Bette T. Korber

### Named Distinguished Alumna College of Natural Sciences & Mathematics

**A**t the College of Natural Sciences & Mathematics Commencement on June 1, Dr. Bette T. Korber (BS Biochemistry 1981, PhD Caltech) was recognized as the Distinguished Alumna for 2001 and praised for her important contributions to AIDS research.

Last year, in a paper presented at the Seventh Conference on Retroviruses and Opportunistic Infections in San Francisco, Bette reported that the results of her research indicated that the HIV viruses probably passed from chimpanzees to humans in about 1930 as a result of hunting, butchering and eating chimpanzees during a period of food shortage. This finding challenged previous unsubstantiated assertions that HIV transmission evolved from chimpanzee cells used in testing polio vaccine in Africa in the 1950s. Her computer-based studies compared the composition of the genetic material of many current strains of the virus which extrapolated back to a common origin. Two different statistical investigations both pointed to 1930 as the crossover date.



Dr. Bette Korber, Distinguished Alumna, College of Natural Sciences & Mathematics and Glenn Nagel, Dean.

Bette is employed as a geneticist at the Los Alamos National Laboratories, the custodian of all the genetic sequence information on HIV reported throughout the world.

Notices of her presentation were widely heralded in the popular press, including *Time* magazine (Feb. 14, 2000) and on the front page of the *Los Angeles Times* (Feb. 2, 2000) and in a major

article in *Atlantic Monthly* (October 2000).

She singled out five members of the faculty at CSULB as being particularly influential in her education: Her late father Dr. George Korber, professor of sociology, who taught his students the values of empathy and compassion and to reject prejudices; Dr. Art Metzger, professor of business, who taught her that "being comfortable was

not the most important thing—being fully alive was a better thing"; Dr. Nail Senozan, professor of chemistry, "who taught me that the process of understanding a scientific concept is difficult, wonderful, challenging, exciting"; Dr. Larry Lerner, professor of physics, who gave her "the confidence I needed to change my major (from English) and go on in science"; and Don Depree, her karate teacher, who "taught me to confront fear, to do what is right even if it is difficult."

Bette added, "There are many things I love about CSULB. It (consists of) a great mix of students, from fresh young 18 year-olds, to older working people coming back, children of new immigrant families and new immigrants themselves. People from all walks of life—many languages spoken, many cultures represented. Sometimes students have to make great personal sacrifices to learn, but they come anyway. Through CSULB they have a door to an education that otherwise might be closed. I am very proud to have been part of this wonderful system." ■

## Alums Head Molina Healthcare

**I**n *Inc: The Magazine for Growing Companies*, Long Beach-based Molina Healthcare Inc. is ranked 61st in the nation among the top 100 fastest growing

private companies in America's inner cities. Located in downtown Long Beach at Ocean Boulevard and Golden Shore, Molina Healthcare has grown rapidly over the past five years and has expanded its service areas beyond the borders of California to Washington, Michigan and Utah. A company

with 440 full-time and 19 part-time employees, its five-year growth rate was 38 percent, its revenues exceeding \$184 million. Chairman of the Board and CEO of Molina Healthcare is Dr. J. Mario Molina (BS Chemistry 1980), who received his MD from USC. Assisting Mario is his sister, Dr. Martha

Molina Bernadett (BA Chemistry 1985), Vice President and General Manager. Martha received her MD from UC Irvine.

Molina Healthcare provides medical services to the poor and has a large minority clientele: African American, Hispanic and Southeast Asian. One of the

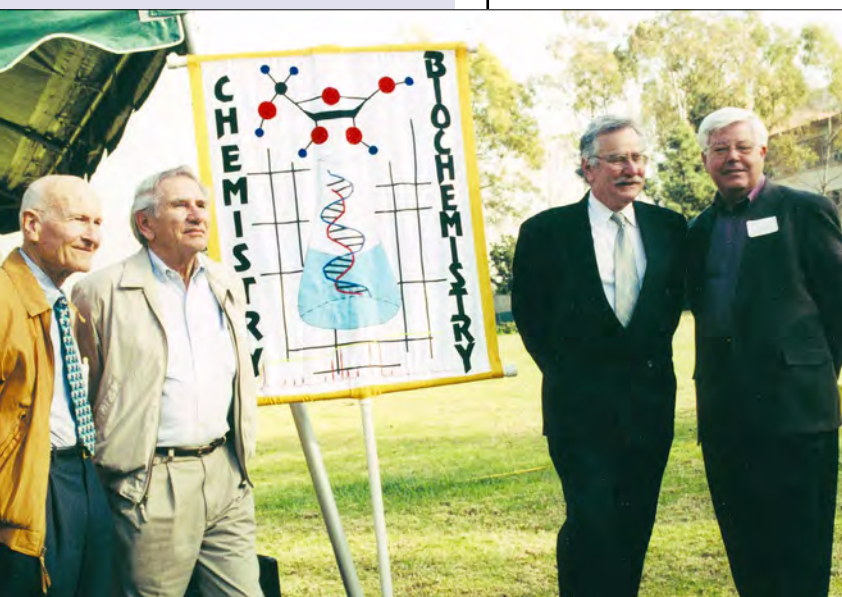
Dr. J. Mario Molina and Dr. Martha Molina Bernadett

See page 5, Molina

# Remarks by the Chair

by Nail M. Senozan

The profile of our department continues to change rapidly. This fall two physical chemists, Dr. Christopher Brazier and Dr. Stephen Mezyk, join the ranks of our faculty as assistant professors.



Groundbreaking Ceremony for the New Science Building, Feb. 2, 2001. Left to right: Chemistry Chairs, past and present, Dr. Darwin Mayfield (Chair 1964-1966), Dr. Ken Marsi (Chair 1975-1996), Dr. Nail Senozan (Chair 1996-present), Dr. Roger Bauer (Chair 1966-1975). Not shown: Dr. Don Simonsen (Chair 1961-1963).

Photo by David J. Nelson

Dr. Brazier, a native of England, has a BS degree in mathematics and chemistry from the University of Southampton, United Kingdom, and a PhD in chemistry from the same institution. He is a spectroscopist with a particular interest in small metal clusters that may play a role in rocket fuels. Dr. Brazier came to us from California State University, San Bernardino where he was a lecturer.

Dr. Mezyk has received his PhD from the University of Melbourne, Australia, worked at the Brookhaven and Argonne National Laboratories and held post-doctoral positions at the Universities of Saskatchewan and Calgary and at Notre Dame. Prior to his appoint-

ment at Long Beach, he was a research associate professor at the University of North Carolina in Wilmington. Dr. Mezyk's research is in reaction kinetics of transient species such as the hydroxyl radical and the environmental impact of such species.

Both Dr. Brazier and Dr. Mezyk join us with impressive records of scientific publications—over 80 articles between the two of them in distinguished journals of chemistry.

This year, Dr. Marsi completes his Faculty Early Retirement Program (FERP) while Dr. Baine begins FERP. Dr. Marsi will continue to serve as the coordinator of alumni relations and the editor of this Newsletter. Dr. Baine will keep his responsibilities as the vice-chair and advisor to the Student Affiliates of the American Chemical Society.

We are presently authorized to search for two biochemists and one chemistry educator for the academic year 2002-2003. Thus, by September 2002 the number of tenured and tenure-track faculty who have joined our department since 1997 will reach nine. Recent additions to our faculty roster include Dr. Doug McAbee (1997), now a tenured associate professor, Dr. Lijuan Li (1998), also now a tenured associate professor, Dr. Paul Buonora (2000), Dr. Krzysztof Slowinski (2001), and, starting this fall, Drs. Brazier and Mezyk. Meanwhile, since 1997, Drs. Kalbus, Lieu, Devore, Wynston and now Dr. Marsi have retired.

We would also like to welcome two new members to our academic/community liaison, the

Chemistry & Biochemistry Advisory Council. They are Dr. Michael Treuheit of Amgen, Inc. and Dr. Martin Sobczak of Ablestik Laboratories, a division of National Starch and Chemical Corp. We appreciate the dedicated assistance of our 25-member Advisory Council, founded in 1977.

“Being in the teaching profession is a precious privilege,” Dr. Marsi once remarked, and indeed, as our graduates embark on their new destinations, I realize again how privileged and fortunate I have been to have touched their education. Elsewhere in this newsletter you will read more about the achievements of our students, but here is a sampler: Kevin Phillips is now in his second year at Harvard where he is creating a library of DNA molecules capable of imparting catalytic activity to metal complexes. Jared Aschroft will begin PhD work in analytical chemistry at Rice University. Michael Eagan and Matthew Harris are starting medical school, Mike at UCLA and Matthew at USC. And we are proud indeed to see our former student Bette Korber receive the Distinguished Alumna award for 2001. Dr. Korber (Caltech PhD)

was recognized for her pioneering studies on the origins of the AIDS virus. Her discoveries, which date the appearance of the HIV to the 1930s, received extensive national coverage including a major article in the *Atlantic Monthly* in October 2000.

Cal State Long Beach continues to be a very good place to study chemistry. In recent years, with new faculty joining our ranks, research opportunities for undergraduates and master's students have greatly expanded. Our students now can participate in exciting projects in many areas including electron tunneling through films of molecules, modulation of electrical and optical properties of coordination compounds, characterization of biological receptors and aggregation and folding of proteins implicated in debilitating diseases. If you know any good students who may enjoy the excitement of chemistry, tell them to give us a call. We would love to show them the possibilities through chemistry.

Best regards and please stay in touch. ■



Also pictured at the Groundbreaking Ceremony for the New Science Building are left to right: Dr. Robert Loesch (Chemistry), Associate Dean; Dr. Beth Ambos (Geology), Associate Dean; Dr. Glenn Nagel, Dean, College of Natural Sciences & Mathematics.

Photo by Victoria Sanchez

# Academic Excellence

by Glenn Nagel — Dean • College of Natural Sciences and Mathematics —

I recently attended a conference of college and university presidents and deans at Fermi National Laboratory outside of Chicago. The conference was sponsored by five private foundations (Camille and Henry Dreyfus, W. M. Keck, M. J. Murdock, Research Corp. and Robert A. Welch Foundation) that have been strong supporters of undergraduate student research.

The purpose of the conference was to release the results (539 pages) of a study undertaken to provide a basic understanding of the environment for research in the natural sciences at predominantly undergraduate colleges and universities. CSULB was one of 136 institutions invited to contribute data and opinions to the study. Other institutions included liberal arts colleges (e.g., Bates, Carleton, Harvey Mudd, Knox, Middlebury, Mount Holyoke, Occidental and Pomona Colleges) as well as larger colleges and universities (e.g., William and Mary,

Western Washington, Northern Arizona and Rochester Institute of Technology). Three CSU campuses were represented (CSULB, Cal Poly SLO and San Jose State). In the words of Dr. Michael Doyle, vice president of Research Corp., "These institutions have served as a national resource for a significant proportion of students who undertake professional careers in the sciences and a primary reason for their output has been the research experiences of undergraduate students with faculty mentors." The foundations were concerned, however, that the number of proposals from science faculty was decreasing and that the opportunities for external funding were shrinking.

I am happy to report that the concerns of the organizers did not apply to our institution. CSULB ranked #9 of 136 in the number of research grants awarded and #4 in the number of baccalaureate degrees conferred in the sciences. In

addition, 87 students earning bachelor's degrees in the sciences from CSULB were granted PhD degrees between 1991 and 1999.

While we are very proud of these accomplishments, there was some room for concern. One calculation made from the study was that it takes, on the average, more than \$35,000 in funding to produce a published paper in a first-rate science journal. We strongly believe that student co-authorship of a research paper is a real mark of the quality of the work being done in our laboratories. Our cost at CSULB was actually somewhat higher than the \$35,000 figure, indicating that we either need to be more aggressive in publishing work or that we need to attract more funding in order to increase our publication rate with students. I believe strongly we must do both. What can you as alumni and friends of CSULB Chemistry and Biochemistry do to help us in our quest of Academic Excellence? The

first is all important: promote our program to your peers and associates and encourage talented students to apply for admission here. Second, we are always in need of funds to support student-faculty research. Your contributions can help support student research fellowships, lab materials and supplies, or costs associated with the presentation and publication of results.

If you wish to let us know of a student who is interested in applying or has applied to CSULB, you can reach me by calling 562/985-1521 or by e-mail (gnagel@csulb.edu). Donations to support undergraduate research in Chemistry and Biochemistry may be made via Dr. Marsi as is described elsewhere in this newsletter.

Your support and continuing interest in science at CSULB is deeply appreciated. ■

## Editorial Box

### CSULB

Chemistry and Biochemistry  
Department Newsletter  
Fall 2001, Number 26

An annual publication of the Department of Chemistry and Biochemistry for past and present students and friends of the department. News items, feature articles, photos and comments are eagerly invited. All articles not signed in this issue of the Newsletter were researched and written by the Editor. The Newsletter and other departmental news and information may be accessed on the Internet at the following address:

<http://www.chemistry.natsci.csulb.edu>.

To send information about yourself electronically for publication in the Newsletter, (1) open up the Web site indicated above, (2) click on Newsletter, (3) click on the Fall 2001 logo, (4) on the side bar, scroll to Alumni Response.

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Appreciation is extended to Connie Lane, Publications Office, for the Newsletter layout and to Bob Freigh, Audio Visual Services, for many of the photographs contained in this Newsletter.

## Dr. Catherine Fenselau Allergan Distinguished Visiting Lecturer

by Tom Maricich — College of Natural Sciences and Mathematics —

The 22nd Annual Distinguished Visiting Lecturer was Dr. Catherine Fenselau, professor of chemistry at the University of Maryland. Dr. Fenselau received an AB from Bryn Mawr College, and her PhD from Stanford University, where she worked with Dr. Carl Djerassi. She is a former president of the American Society of Mass Spectroscopy. She is also the recipient of the Garvan Metal of the American Chemical Society, the Maryland Chemist Award and the Merit Award of the National Institutes of Health. Dr. Fenselau is the newly elected chair of the Analytical Division of the American Chemical Society. Since she trained as an organic chemist, the wide scope of her expertise is reflected in the breadth of her recent publications, appearing in *Analytical Chemistry* and in *Cellular and Molecular Biology*.

While at CSULB, Dr. Fenselau presented two lectures to students and faculty, at times with standing room only. In her first, a general lecture, titled "How Much Do Things Weigh?," she presented the capability of mass spectrometry to weigh individual molecules, molecular complexes and even small viruses. Dr. Fenselau illustrated how the determination of molecular masses provided answers to important questions in biology, medicine and space travel.

After an interactive luncheon with students, Dr. Fenselau gave a more technical talk, titled "Chemistry of Zinc-Binding Proteins Studied with Electrospray Mass Spectrometry" to a crowd of chemists and biologists. Her revolutionary techniques for accurate analysis of high molecular weight proteins (greater than 30K Daltons) is paving the way for better

understanding of these proteins. Dr. Fenselau and her co-workers have used electrospray MS at pH 8.0 in combination with accurate mass measurements to confirm the multiplicity of insulin in stable non-covalent complexes with zinc ions. They showed that the nature and number of ligands involved in chelation agrees with results from crystal and solution structures. Counting the number of ligands participating in each center allowed deduction of the geometric configuration of the ligand field and gave

indirect information about the conformational state of the insulin monomers in solution.

An enthusiastic discussion ensued, which has led to new dialog between our universities and between different disciplines.

The lecture was followed by a reception and dinner at Andiamo's Restaurant in Long Beach.

This lectureship is sponsored by a generous gift from Allergan Pharmaceuticals, Inc. ■



# Reports from FACULTY &



Some of the faculty and students in attendance at the 29th Annual Awards Banquet in May. Seated left to right: Dmitry Pervitsky, Dr. Ximeng Wang, Dr. Paul Buonora and Dr. Peter Baine.

## DENNIS ANJO

My research continues with both carbon electrode studies and some new work on organoborane compounds. Paul Sierocki has worked on the pH response of carbon electrodes, extending our diagram of the pH, potential and response surface for carbon electrodes. Paul has also developed buffers that work in electrochemistry experiments, without causing interference. He was accepted in the PhD program at UCLA for the fall 2001.

Jared Ashcroft has also been working in my group. Jared is studying the emission spectrum of tri-anthracene borane. His work has indicated that the emission of the compound is not the traditional Kasha type. Multiple emission peaks are observed in condensed media. Jared is also going on to graduate school, beginning the PhD program at Rice this fall 2001.

I met a former student of mine, Greg Whitaker (BS Biochemistry 1990), during the last week of classes. Greg is at present working in anesthesiology, and will be finishing his residency soon. Greg also brought greetings from Michael Wanger (BS Biochemistry 1990), who is now practicing medicine in Florida.

## PAUL BUONORA

As I write these comments it is exactly one year since my wife, Sarah, and I arrived in Long Beach to look for housing and begin our lives in California. The year has

been full and gone by quickly. The faculty, students and university have lived up to all the hopes I had when I accepted the position.

Nail Senozan organized a welcome party, and Ken Marsi was very helpful in assisting Sarah in finding a position in dental materials research working with Long Beach alum Greg Dorsman (BS Chemistry 1977, MS Chemistry 1983) at Danville Materials. My organic colleagues have given advice and guidance as I learn to navigate life at CSULB and in Southern California.

On the research front, three undergraduate students will begin work this summer and a half dozen others have expressed interest in starting research in the fall. We hope to make short work of tying up loose ends on chiral gamma-dicarbonyl synthesis projects which were nearly complete when I left Pennsylvania.

The corrected galley proof of an invited review with Tae Oh of CSU, Northridge, of recent progress in imino Diels-Alder reactions, was returned to the journal *Tetrahedron* in late May.

I have not had much time for work in the history of chemical science, but I was asked to sit on the Outstanding Paper Selection Committee of the Division for the History of Chemistry of the ACS. Next year I will chair that committee.

In the teaching arena, I taught the Organic Chemistry 320 sequence this year. In the second se-

mester my class participated in beta testing the questions for the 2002 version of the ACS organic examination. In the laboratory for that course we replaced mercury thermometers with digital thermometers, an innovation I had utilized in Pennsylvania. This investment should provide dividends in the future as we eliminate mercury spill cleanup and reduce replacement costs. Currently, I am organizing materials to teach a Special Topics: Medicinal Chemistry course in the spring of 2002.

## JEFFREY COHLBERG

Summer and fall of 2000 were spent on a sabbatical leave in Tony Fink's lab at UC Santa Cruz. I worked on the protein  $\alpha$ -synuclein, which aggregates to form Lewy bodies in the brain cells of Parkinson patients. The aggregation can be replicated in the test tube. I discovered that this process is stimulated by glycosaminoglycans and obtained some information about the mechanism of this stimulation. The work generated data for two manuscripts, one of which was submitted for publication this spring. Santa Cruz was a delightful place to spend seven and 1/2 months, and in particular the Department of Chemistry and Biochemistry there provided a stimulating and friendly environment.

While in Santa Cruz I guided Gene Rozumov and Frank Le to complete their MS theses. They are both now at UCLA, Gene in

the PhD program in organic chemistry and Frank in dental school. Paula Spencer is finishing her thesis while she works as a protein chemist at Amgen. I taught Chem 441B in the spring and have been working in the lab with the aim of finishing my current project on neurofilament protein interactions. I am also working on a curriculum development involving the use of molecular modeling by students in biochemistry courses.

## DOROTHY GOLDISH

In addition to teaching classes and serving as the undergraduate advising coordinator for the department, I have been serving on two important university committees. In the past year, we have been preparing our self-study for reaffirmation of accreditation by our regional accrediting body, the Western Association of Schools and Colleges. With Vice President for Student Services Douglas Robinson, I co-chaired the task force writing a section on Services to Students. (Dr. Merryfield was co-chair of the task force writing about General Education.)

We were writing about some things that have been going well, but mostly about efforts to correct some of the problems alumni no doubt remember, such as slow grad checks, late evaluation of transfer credit, difficulty getting information about financial aid, non-functional classrooms and others. The good news is that many of these have been greatly improved. Grad checks are done quickly, admissions and financial aid information go out more efficiently, advisors have access to transfer records and other useful information so we can give accurate answers, some classrooms have been air-conditioned and equipped for modern technology (but others are still waiting for renovation.)

I am also a member of the committee dealing with enrollment management. The university's enrollment has been increasing rapidly, especially with an increasing number of freshmen. We are rapidly running out of classroom space and many departments are finding it impossible to hire enough faculty members to teach all the classes needed. We have

now received approval from the Chancellor's Office to limit the size of the freshman class, starting with the class entering in fall 2002. This doesn't mean that we will turn away highly qualified students or that we will redirect students who live and work close to CSULB to other campuses.

Under our plan, we will continue to admit all students from school districts close to the campus who meet the minimum CSU entrance requirements, but will impose somewhat higher standards for students from school districts farther away. This will be based on the CSU "eligibility index" which combines high school grade point average with scores on the SAT or ACT exam. A study of predictors of student success showed that this index gave us better predictions than using grades or test scores alone. Students who are initially denied admission would have the opportunity of attending another CSU campus or of attending a community college and then transferring. We will continue to admit all eligible upper division transfer students.

(Editor's Note: After submitting the above narrative, Dr. Goldish was appointed acting dean of Undergraduate Studies and will not be teaching during the 2001-2002 academic year.)

## LIJUAN LI

Dr. Lijuan Li, assistant professor of inorganic chemistry, was promoted to associate professor effective the beginning of the 2001-2002 academic year.

In March 2001, Dr. Li was awarded a SCORE (Support for Continuous Research Excellence) grant by the NIH in the amount of approximately \$500,000 for a period of three years. She has also been notified that she is the recipient of two additional grants: (1) an American Chemical Society Petroleum Research Fund grant (\$25,000) and (2) a Research Corp. grant (\$34,238).

Dr. Li joined our department in 1998 and in the past three years she has published eight papers in journals such as the *Journal of the American Chemical Society*, *Journal of Polymer Science* and the *Canadian Journal of Chemistry*. The article, "Metalloporphyrin-



# STAFF

Catalyzed Electrocarboxylation of Alkyl Halides,” published in *Recent Advances in Electrochemistry*, was co-authored by John Liarakas, a master’s student. A recent article, appearing in *JACS* titled, “Synthesis, X-ray Crystal Structure, and Solution Behavior of Fe(NO)<sub>2</sub>(1-MeIm)<sub>2</sub>: Implications for Nitrosyl Non-heme-iron Complexes with  $g = 2.03$ ,” was co-authored with Dmitry Pervitsky, who received his MS degree this summer.

Dr. Li also received a Scholarly and Creative Activities Award from the university for the summer of 2001.

## DR. ROBERT LOESCHEN

This year has been a busy one for me, with respect to facilities. (Dr. Loesch is associate dean in charge of physical facilities in the College of Natural Sciences & Mathematics.) In January we had the groundbreaking for the new science building, which is located just north of PH3. Since then, I met with campus officials, the contractor, the project director and the architect’s representative every week and listened as they discussed the whys and why-nots of building a science building. The contractor is trying to maximize profit (of course), but is really not worried about speed; CSULB eagerly wants the building finished and does not want to spend the contingency money, and the project manager is trying to figure out what everyone is doing. The results give rise to some interesting discussions, and I am glad I am not in charge. If everything goes on schedule, we should move in the summer of 2003. Please plan to come for a visit after the building is completed. Meanwhile, the

shop people and I are working hard to try to do renovations of existing space in PH1,2,3 and the Microbiology Building because we have so many new faculty members who need research space to accommodate their needs.

I have been “acting” associate dean for CNSM since 1992, and after an exhaustive search (no one else applied) I was appointed to the permanent position. It is nice to take off the “acting” prefix.

Academically, I am teaching organic chemistry and enjoying it a lot. I was very honored to have been selected for the Mayfield Teaching Award at graduation this year. In the fall, I am looking forward to teaching in the organic laboratories, as I have not done that for several years.

## MARCO LOPEZ

Leaving the “Heme Team” this year are Alex Nunez, who was accepted to University of Illinois, Chicago Medical School, and Jose Pena, who was accepted to the UC Berkeley PhD program in Virology. Both will start fall 2001. Two graduate students, Danny Ponce and Vival Patel, defended their master’s thesis. Danny’s thesis, “Synthesis and NMR of Tractable Models of Aqueous Heme Proteins,” was defended in summer 2000, and Vival’s thesis, “Computer Simulated Trajectory of a Sterically Hindered CO-Heme System,” was defended in May 2001. MS students Jing Leng and Kian Kani are writing their MS theses this summer. MS student Phat Hoang wrote his thesis last year and got a job in the Bay Area; we are waiting for him to return and defend it. The Heme Team will be looking to increase the number of students. Currently, Juan Lopez, whose

project is the characterization of NO-Heme complexes, is the only “Heme-Teamer” remaining. We will be looking to recruit students to the Heme Team this summer.

Together with other faculty in the college, we were fortunate in receiving funding for a research proposal titled, “Proximal Effects on Ligand Binding to Heme-protein Models,” submitted as part of a SCORE grant to the NIH. The funds will be used to set up a nanosecond flash-photolysis lab for studying the kinetics of ligand (O<sub>2</sub>, CO, and NO) binding to heme models of proteins. Furthermore, this grant will provide funds for a technician to help in performing the experiments. The funding is for three years and starts Sept. 30, 2001.

During the last year I have been getting experience in teaching the Advanced Organic Chemistry Laboratory course, Chem 420. Last fall I “interned” Dr. Nakayama’s lab section and attended Dr. Berryhill’s lectures. This spring I taught a section of the course. In the fall, I will take over responsibilities for the course. The course teaches advanced laboratory techniques and spectroscopy, focusing on Mass Spectrometry and Nuclear Magnetic Resonance (NMR) spectroscopy.

## TOM MARICICH

This past year reflects the coming year, where I will continue to teach organic chemistry lecture and lab, coordinate the lab and coordinate the department seminar program. Four years ago I introduced the teaching of Chem 320A during the summer session. It now regularly draws about 50 (often desperate) students, who tend to perform better than those in classes during the regular terms.

My research students are making progress on their projects. Andrea Chen is completing her master’s project working with a chiral sulfonimidate alkylating agent she synthesized. She has submitted crystals of one diastereomer for X-ray analysis by one of our seminar speakers this past semester, Dr. Katherine Kantardjieff, professor and director of the W. M. Keck Foundation Center for Molecular Structure at CSU, Fullerton. Andrea is hoping to demonstrate

selective, chiral alkylation on racemic mixtures of chiral acids and on meso or prochiral diacids. Another student, Dustin Wride, is beginning to investigate the alkylation of sulfhydryl groups under acidic conditions, with potential applications toward alkylation of cysteine SH groups in peptides and proteins. This project was stimulated by suggestions from Dr. Roger Acey. Mike Eagan completed his project and graduated Summa Cum Laude. He is heading for medical school at UCLA this fall. Caroline Carter worked on a summer internship at Neutrogena in Los Angeles.

This summer we travelled to Anacortes, Wash. with our two sons and daughter, their two spouses and our three grandchildren to join with over 100 descendants of my parents to celebrate a memorial centennial of my mother’s birth. While we were there, we took in four operas of “Der Ring des Nibelungen” by the Seattle Opera.

## KENNETH MARS

I have completed my Faculty Early Retirement stint, but will continue to teach the second semester of organic chemistry in the fall of 2001. I have an ongoing assignment as the editor of the Chemistry & Biochemistry Newsletter and as the Coordinator of the Advisory Council and am active in assisting Dean Nagel with fundraising for the department and College of Natural Sciences & Mathematics.

In April I served as the external reviewer for the Department of Chemistry at California State University, Hayward. Every five years each department in the California State University System must be reviewed by an external visitor in the discipline. I had been the reviewer in the previous cycle and on returning for my second five-year review I was pleased to find that many of my recommendations had been implemented by the department. Dr. Leroy Chauffe, the department chair at Hayward, was a lecturer in our department during 1967-1968. The year just ended marked the 40th year of my membership on the faculty at CSULB.

I was privileged to have six President’s Scholars in my first semester organic class, and I look

## Molina

*Continued from page 1*

challenges successfully met is communicating matters of health to people of a variety of cultures and languages. This has been accomplished by maintaining a workforce that reflects the ethnic composition of its patients and by hiring staff who live in patients’ neighborhoods and speak their languages. Molina Healthcare is a provider of health care to approximately 350,000 persons.

Nearly all the company’s revenues derive from Medicaid and other government-sponsored health insurance programs. However, customers also include state agencies such as the California Department of Health Services.

According to Mario, “Other companies enter and exit the Medicaid market depending on how profitable it is for them and how much effort they have to expend. It’s just the opposite for Molina Healthcare. We are in it for the long term. We find ways to make it work.”

Mario received high honors and was elected to Phi Beta Kappa while at CSULB.

Martha, also a Phi Beta Kappa graduate of CSULB, received numerous awards during her undergraduate career, including the Khalil Salem Award, the Toni Horalek Award and the David L. Scoggins Scholarship. She was also president of the Student Affiliates of the American Chemical Society during one of its most active years.



Left to right: Dr. and Mrs. Robert Loesch and Dr. and Mrs. Tom Maricich at the 29th Annual Awards Banquet in May.

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## Faculty and Staff

Continued from page 5

forward to continuing to teach the second semester of this class in the fall.

### DOUGLAS McABEE

The 2000-2001 academic year was a busy and productive time for me and for members of the lab. We said goodbye to Daekeun Joo last summer, who entered medical school this past year at the University of Cincinnati. Daekeun successfully defended his research thesis, which focused on identifying regions of the lactoferrin molecule involved in binding the rat

pendent manner, similar to what we had previously found with a heterologous system. It also appears that lactoferrin binds to non-HHL molecules on HuH7 cells.

Cathy Overstreet and Vincent Yee are in the second year of their thesis work. Cathy, with the help of undergraduates Sonya Botero and Eva Morlok, is generating recombinant glycosylation variants of lactoferrin for expression in yeast. This group has made very good progress on the project. Vincent is examining the effects of in vivo iron overloading in rats on

and learn to use the Molecular Simulations molecular modeling software the college obtained this spring.

This was also a watershed year for me in that I was awarded tenure by the university. With that in mind, I would like to take this opportunity to publicly thank my chairman, Dr. Nail Senozan, Dean Glenn Nagel and my biochemistry colleagues (Drs. Merryfield, Acey and Cohlberg) for their unstinting support and encouragement during my first four years here at CSULB. I would also like to thank Gina

Howard Hughes Medical Institute for students in the Departments of Chemistry & Biochemistry and Biological Sciences. This program was described in some detail in last year's newsletter. In the 2000-2001 academic year, our first year of operation, we brought three new courses online—a freshman seminar, Ideas in Biological Sciences, a critical thinking class for science students, and a course in research design. Eleven students are now working in labs and receiving support as the first group of HBS students. I team-taught the critical thinking class to a group of freshmen who wrote essays about "My Life as a Scientist" and created "Project Think," a campaign to bring critical thinking to middle and high schools. For next year, a Bioinformatics course will come online, and we have extended offers of participation to 22 talented incoming freshmen.

Team-teaching seemed to be my theme this year; in the spring I also team-taught the pilot offering of Chem 105, a one-unit lab course for students planning to become elementary school teachers. Nancy Gardner and I managed to write the labs just barely ahead of the lab meetings and worked the students almost as hard as we worked ourselves. We are now revising the labs in preparation for the course becoming a requirement in the liberal studies curriculum in the fall. I continued as the General Education Implementation coordinator, with this year's major project being to prepare a section of the university's WASC self study. Meanwhile, in my copious free time I continue to work with graduate students Mike McAllister and Cathy Barra. Congratulations to graduates Kristi Fox and Sofia Aguero.

(Editor's Note: Dr. Margaret Merryfield was promoted to full professor effective the fall semester of 2001. In June Dr. Merryfield

was a panelist on authoring grant proposals at the Western Regional AAAS meeting held at UC Irvine.)

### HENRY PO

Dr. Senozan and I published a chemical education article on the history and limitations of the Henderson-Hasselbalch equation. It should appear in the *Journal of Chemical Education* in the fall. If you would like to receive a copy of the reprint, please write to either one of us. We have also developed a computer experiment for our class, based on the published article. The students really enjoyed doing this experiment and their time away from the wet lab.

I attended the Pacificchem conference in Hawaii last December and presented a paper on the kinetics and thermodynamics of the oxidation of thiols. This work is a collaborative effort of several international students who came to Long Beach for their education. They are Janet Hunting (US), Rozi-ahanim Mahmud (Malaysia), Shu-Chin Shen (Taiwan) and Theodore Nguyen (Vietnam).

### CHRIS SLOWINSKI

My first semester at CSULB (I arrived in January of 2001) was quite eventful. My lab will be up and running at the beginning of the fall semester of 2001. I would like to thank Joyce Kunishima for her most professional help in purchasing instruments and dealing with every day problems.

My students and I will investigate electronic properties of single molecules using the electrochemical approach and tunneling junction method. Three undergraduate students have already expressed their interest in working with me in the fall, and I am looking forward to working with an even larger number of graduate and undergraduate students. I have estab-

See page 7, Faculty & Staff



Others who attended the Awards Banquet are left to right: Dr. Nail Senozan, Yannis Papastamatiou, Dr. Kenneth Marsi, Roger York (standing), Caroline Carter (standing), Jared Ashcroft, Ulf Kiehne and Chosu Khin.

hepatic lectin (RHL). George Liarakos, Pat Pierce and Thanh Nguyen are nearing completion of their MS theses. George has most recently examined the interaction of lactoferrin with hepatocytes isolated from control and iron-loaded rats. Iron loading induces the cells to take up about twice as much lactoferrin as control cells, indicating that physiologic iron overloading is accompanied by a change in hepatic lactoferrin metabolism. Pat has shown that one or more proteins in serum block the binding of lactoferrin with hepatocyte RHL. He isolated and identified two lactoferrin-binding proteins from serum: the copper-containing ferroxidase ceruloplasmin and an as yet unknown polypeptide of 165 kDa.

Jennifer Laprise, an undergraduate research assistant, joined the lab in April and is assisting Pat and me with purifying these lactoferrin-binding proteins from serum and helping to analyze their biochemical features. Thanh has been working on characterizing the interaction of human lactoferrin with the human hepatoma cell line HuH7. Using this homologous system, she has found that lactoferrin interacts with the human hepatic lectin (HHL) in a galactose-inde-

the expression activity and is making solid progress on this work. Grace Jung, a graduate student who joined the lab just this year, is working on expression of lactoferrin-transferrin hybrid proteins using a baculovirus vector and insect cell expression system.

Two lab members are working in labs elsewhere this summer. Sergio Lopez, who is cloning the rat lactoferrin gene, received a summer fellowship through the SPUR program at Hunter College, at the CUNY in New York. Sonya received a MIRT fellowship this summer and is working with Dr. Robert Evans at Oxford University in England on lactoferrins.

My own activities this past year have focused primarily on coordinating and guiding student research projects and teaching biochemistry and my cell membranes graduate course. I filled in for Dr. Jeff Cohlberg as interim biochemistry graduate advisor when Jeff was on sabbatical leave during the fall semester. My aversion to forms and strict procedures notwithstanding, I got through the fog with much assistance from Jeff, the departmental office staff and the dean's office. In between all these activities, I have been attempting to teach myself UNIX

DeFinis and Wanda White for their cheerful and competent administrative assistance and for helping me when I broke my arm playing basketball last winter. I am looking forward with anticipation to teaching and research (and more basketball!) this next academic year.

### MARGARET MERRYFIELD

This year marked my first year as program director for Honors in Biological Sciences, a research-centered program sponsored by the



The banquet attendees included, from left to right, Dr. Douglas McAbee, Patricia Maxwell, Gina DeFinis, Jack Clark, Dino Santos, Cheryl Ea and Jean Kigozi.

# New Physical Chemists Join the Faculty

## Dr. Stephen Mezyk

Dr. Stephen Mezyk comes to us by way of the University of North Carolina at Wilmington where he was research associate professor. He received his BSc and PhD in Chemistry, both from the University of Melbourne, Australia. Following completion of his PhD he was a postdoctoral fellow at the University of Calgary, Canada, the University of Saskatchewan, Canada and Notre Dame University. Prior to taking the position at UNC Wilmington he was a research scientist for eight years with Atomic Energy of Canada Ltd.

While with the AEC he investigated the free radical chemistry of iodine containing compounds in

water, the supercritical fluid radiolysis of perfluorocarbons and water, and studied aqueous corrosion chemistry.

During his appointment at UNC Wilmington he taught courses in spectroscopy and kinetics, advanced quantitative chemical analysis and a general chemistry course.

He has received funding totaling over \$1.3 million to support his research activities during his scientific career. Dr. Mezyk has had over 40 publications appear in scientific journals such as *J. Phys. Chem.*, *Can. J. Chem.* and *J. Chem. Soc. Faraday Trans.*

When asked what attracted him to Cal State Long Beach, he said, "I felt [the department offered] an excellent opportunity for me to pursue my research goals of doing basic physical/analytical chemistry studies in support of important environmental problems, while still allowing me to enjoy undergraduate teaching. I wanted to be able to do collaborative work with established scientists in a department that had the equipment resources that I require. And, having traveled extensively around North America, I really liked the idea of being located near a major city with a climate that one could enjoy all year round."

Dr. Stephen Mezyk (at left) and Dr. Christopher Brazier

## Dr. Christopher R. Brazier

Dr. Christopher R. Brazier joined the tenure-track faculty in the area of physical chemistry this fall. Dr. Brazier received his BSc Degree (1st Class Honors) in Chemistry with an emphasis in mathematics at the University of Southampton, Southampton, England and his PhD in Chemistry, also at the University of Southampton. His thesis work involved the spectroscopy of gas phase free radicals. Following receipt of the doctorate, he served as a postdoctoral research associate and research scientist at the University of Arizona where he performed extensive research on the chemistry and laser spectroscopy of alkaline earth organometallic free radicals, helping to establish a new field of gas phase inorganic chemistry. Dr. Brazier comes to us directly from CSU San Bernardino where he served as a full-time lecturer for three years in the Department of Chemistry and was responsible for teaching beginning chemistry courses, quantitative analysis, instrumental analysis and a number of general education courses in

chemistry. Prior to his appointment at CSUSB he was a research scientist at Hughes STX, Phillips Laboratory at Edwards Air Force Base where he studied rocket fuel chemistry and technology. He observed the AIC molecule for the first time through spectroscopic means. He plans to pursue his interest in spectroscopic techniques to determine properties of small molecules.

Dr. Brazier is the author of 45 articles published in professional journals and has given 41 presentations at scientific meetings.

Dr. Brazier states, "I have been teaching in the CSU system for four years now and really appreciate the wide variety of students the system attracts. At Long Beach I am looking forward to working with graduate students and educating the next generation of chemistry researchers for academe or industry. I consider it a privilege to help educate some of the best and brightest students being recruited through the President's Scholars program." ■

Photo by Victoria Sanchez



## Faculty and Staff

Continued from page 6

lished a research collaboration with Dr. Marcin Majda from the University of California, Berkeley. We will investigate the properties of phospholipid monolayers and bilayers on solid substrates. We have received an ACS-PRF grant for this collaboration. In the fall I will also start collaborating with Dr. Christopher Chidsey from Stanford University. My lab will investigate the electronic conductivity of molecular wires synthesized by Dr. Chidsey. I have written three research proposals: for the ACS-PRF, the Research Corp. and the Dreyfus Foundation. I am extremely grateful to Dean Glenn Nagel and Chair Nail Senozan for constant support and help in these activities.

In January I attended the Gordon Research Conference on Electrochemistry in Ventura and presented a poster concerning the tunneling junction method. In the fall of 2001 I will attend two additional conferences and will present an

invited lecture at the Symposium on Interfacial Electron Transfer (a part of the American Chemical Society meeting in Chicago). I will also present my research results at the 200th meeting of The Electrochemical Society in San Francisco in September of 2001. In addition, I was invited to serve as a co-chair (with Dr. K. Kolb from the University of Ulm) of the session titled "Electrochemical Surface Science and Thin Organic Films."

I really enjoyed teaching Chem 251 (Quantitative Analysis) this spring. We are working with Dr. Dennis Anjo to add some new experiments to the Chem 251 Laboratory and to develop a computer lab experiment in statistical analysis of experimental data. I also contributed a small section to Dr. Ken Nakayama's NSF proposal for the purchase of an NMR upgrade. This fall I will be busy developing and teaching a completely new graduate course in electrochemistry.

In addition to the above activities, I serve as a peer reviewer for two international journals: *Langmuir* and the *Journal of Electroanalytical Chemistry*.

### XIMENG WANG

I am a visiting lecturer assigned to teach Chemistry 111B and also to do research with Dr. Lijuan Li. I am supervising four students involved in research in her laboratory. My work is on "The Novel System Displaying Metal-Metal Interactions and Electron Transfer in a Molecular Wire" and "Synthesis, X-ray Crystal Structure and Properties of Fe(NO)<sub>2</sub>L<sub>2</sub> (L = imidazole or 5,6-dimethylbenzimidazole), Implications for Nitrosyl Non-Heme-Iron Complexes."

I formerly worked at Kent State University in Ohio; Clark Atlanta University in Atlanta, Ga; University of Bristol in the UK; and University of Hong Kong. ■

## Faculty E-mail Addresses

Should you wish to correspond with Chemistry/Biochemistry faculty, their e-mail addresses are listed for your use. They would be happy to hear from you.

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# WHERE WHERE ARE THEY NOW?

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

**DR. J. KENNETH BARTLETT**

(Professor 1954-56), our first faculty member, now retired from Southern Oregon State College in Ashland, wrote, "Just a short note in the small world department. The Fall 2000 issue of your newsletter includes pictures and comments concerning the visit of Nobel Laureate, Dr. Dudley Herschbach to CSULB. By coincidence, I was a TA in the Qualitative Analysis portion of his general chemistry course at Stanford University. Not only was it obvious that he was a highly intelligent individual, but he also was a truly nice, friendly guy who even participated in some of our flag football games.

**DR. LEROY CHAUFFE**

(Lecturer 1967-68), retired in June of this year from the CSU Hayward faculty. Dr. Chauffe joined the Chemistry Department at CSUH in 1968, served as chair of the department periodically and

as acting dean in 1994-95. At the time of his retirement he had been chair of the department since 1995.

**BURT CODISPOTI**

(Stockroom Clerk 1993-1995) completed his high school teaching credential in June in Chemistry, Music, German and General Science. "I've just accepted the band director job at Arcata High... jazz and concert band. I am supplementing my work with lots of trumpet lessons and performances. I often think of my great job in the stockroom at CSULB working with so many good people."

**DR. BETH DEBEUS**

(Lecturer 1998-2000), a Dreyfus Teaching Fellow in our department under the sponsorship of Dr. Jeff Cohlberg, has been appointed to the tenure track at Midwestern University/Arizona College of Osteopathic Medicine (Arizona State University) in Phoenix.

**DR. C. DENNIS HALL**

(Visiting Lecturer 1972-73), has retired from King's College, London University, and he and Jean live in Dunellen, Fla. "We are enjoying our days in Florida, and my part-time association with the University of Florida, Gainesville, enables me to keep in touch with chemistry." While at CSULB he was the master's supervisor for Joe Bramblett (MS 1972).



**DR. FRED SHAIR**

(Dean of the College of Natural Sciences & Mathematics 1989-1993), has retired as manager of Educational Affairs at the Jet Propulsion Laboratory in Pasadena. Dr. Shair came to CSULB from Caltech in 1989 where he was professor of chemical engineering for many years. While at CSULB he proved to be a popular and innovative dean. He has had a distinguished career in chemical engineering, and is especially well known for studies of dispersion of airborne pollutants and indoor air pollution. In his retirement he plans to maintain an academic relationship with Caltech.

**DR. AUGUSTINE SILVEIRA**

(Lecturer 1976-77) retired from the faculty at SUNY Oswego in August 2000 where he has served as chair for the past 33 years. During his 1976-77 sabbatical, he taught in our department and was simultaneously involved in research at UC Irvine. Dr. Silveira was appointed Distinguished Teaching Professor in the SUNY system for his services as an outstanding teacher and researcher. Following retirement he was appointed as a distinguished visiting lecturer at the University of Tasmania and is currently involved in collaborative research in the chemistry department at University of Massachusetts, Dartmouth. He and his wife, Beverly, will divide their retirement time between their homes in Fairhaven, Mass. and San Clemente, Calif. His daughter, Dr. Linda Silveira, is associate professor of chemistry at Redlands University. ■



## Leticia Arellano-Summer

Leticia Arellano-Summer, who received her MS degree in our department in 1995, passed away September 2000. Leticia received a BA in Physical Science from UC Berkeley in 1987 and subsequently taught chemistry and physical science at Jefferson High School in South Central Los Angeles for several years. Desiring to learn more chemistry, she entered the MS Chemistry program at CSULB in 1992 where she was a research student of Dr. James Jensen and Dr. Henry Po, performing work on reaction mechanisms and authoring a thesis titled, "The Mercury(II)-Promoted Hydrolysis of 2-Phenyl-1,3-oxathiolane and 2-*t*-butyl-2-phenyl-1,3-oxathiolane."

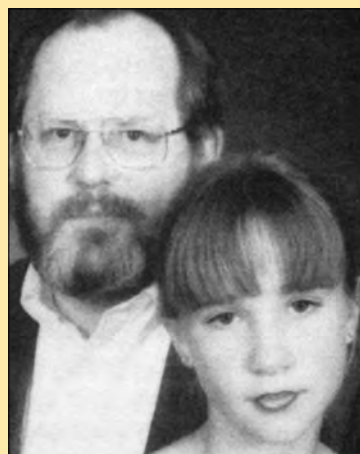
Leticia was a much-honored student at CSULB: She received the John Stern Memorial Award in Physical Chemistry, the Hewlett Packard Award for Excellence and was elected to Phi Lambda Upsilon, National Honorary Chemistry Society.

Following completion of her thesis, Leticia briefly joined our department as a lecturer and taught Chem 202. She is survived by her parents, husband, and two young children. ■

## In Memoriam

### Dr. Charles R. (Chuck) Bennett

Dr. Charles (Chuck) Bennett, a lecturer in our department in the 1980s, passed away on Nov. 12, 2000 at age 54. He was an active member of the ACS Orange County Section, having held such positions as chair-elect, chair, past-chair, and councilor, and was a member of the ACS National Committee on Environmental Improvement.



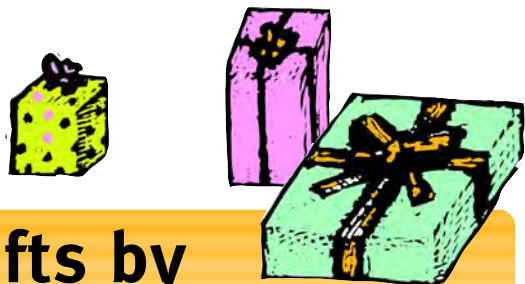
Dr. Charles "Chuck" Bennett and daughter, Anastacia.

The eulogy at Chuck's memorial service was delivered by Dr. Steve Jones (MS Chemistry 1979 CSULB) who stated, "Chuck's passion was as an environmental advocate. I know that he loved teaching college chemistry at Long Beach State, Cal State Fullerton and Cerritos College, [but] what he loved most and what he would probably like to be remembered for was to be involved with any environmental fiasco. He spent countless hours investigating problems associated with superfund sites and would represent the public against the big corporations without compensation."

In a moving tribute to Dr. Bennett, published in the *Orange County & San Gorgonio Sections Newsletter*, Ray Ouellette (BS Chemistry 1968 CSULB) said, "During his career Dr. Bennett brought a deeper understanding of the importance of science and true chemistry to our everyday lives. Chuck loved to teach and he loved to tackle difficult problems. His devotion to his endeavors, whatever they were, was always in the search for truth. Science was his tool for arriving at the truth."

He is survived by a daughter, Anastacia. ■





## Gifts by Individuals

During the 2000-2001 fiscal year the department received gifts totaling \$37,482.50. Of this amount, \$23,650.04 was given by individuals. The average gift was \$311.18, and the median gift was \$100. The faculty, staff and students of our department are very grateful for your generosity.

Cash gifts received are used for scholarships, awards, the seminar program and purchase of supplies and equipment for which there is not adequate state funding. Also, the costs of publishing the Chemistry & Biochemistry Department Newsletter are met with private giving. You may give an income-tax-deductible gift directly to the department by making a check to:

CSULB Foundation/Chemistry Fund  
Department of Chemistry & Biochemistry  
California State University, Long Beach  
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The Office of University Relations and Development is informed of all gifts, and you will receive a personal letter of acknowledgement from the department. You might investigate the possibility that your company matches employee gifts. In that way, the value of your gift to the department is multiplied.

If you are contacted by a university representative and a gift is requested, please specify the Chemistry and Biochemistry Department as the recipient of your gift, if that is your intention. Thank you!

## Corporate Gifts to the Department

The total value of gifts to the department, in-kind and cash, during the fiscal year ending June 30, 2001 was \$37,482.50. Gifts from business and industry amounted to \$12,562.50 in cash and \$1,269.96 in in-kind gifts.

We wish to acknowledge the help of the following persons in assisting us in securing gifts for the department: Mr. Donald Ferm, Ms. Jean Kigozi, Ms. Joyce Kunishima, Dr. Ken Marsi, Ms. Patricia Maxwell, Dr. Steve Ruckmick, Mr. James Richards, Dr. Ercan Unver and Dr. Dennis Van Westerhuyzen.

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

Allergan Foundation\*  
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Matching gifts were received from the following companies (employees whose gifts were matched are given in parentheses):

Boeing\* (Dr. Norman Byrd)  
IBM (Dr. Elizabeth Brinkman)  
McDonald's Corp. (Chris Appleton)  
GlaxoWellcome (Dr. Steve Castellino)

\*Companies are members of the Chemistry & Biochemistry Advisory Council

## Lab Support Scholarship Awarded to Long Beach City College Student



Kyla Perkins, Lab Support Scholar.

Lab Support, a division of On Assignment, Inc., an agency that provides temporary professional assignments in laboratories, has established a \$2,500 scholarship for area community college transfer students who intend to major in chemistry or biochemistry at CSULB. This is the seventh consecutive year in which this award has been conferred.

Previous awardees have transferred to CSULB from Cypress College, Citrus College, Mount San Antonio College, Irvine Valley College, Long Beach City College and Cerritos College.

The award recipient for 2000-2001 is **KYLA PERKINS**, a transfer student from Fullerton College, who intends to continue on to pharmacy school after receiving a BS degree in chemistry. She is a graduate of La Mirada High School and was attracted to chemistry because of the challenge of analytical thinking that is required.

The purpose of the Lab Support Scholarship is to identify and encourage outstanding community college transfer students to enter our chemistry and biochemistry programs as majors and to foster closer relationships with nearby community colleges. The department would like to express its gratitude to **JEAN KIGOZI**, Account Manager with Lab Support's Carson office, for facilitating this scholarship. Ms. Kigozi is a member of our Advisory Council.



Jean Kigozi

## Honor Roll of Individual Donors (July 1, 2000–June 30, 2001)

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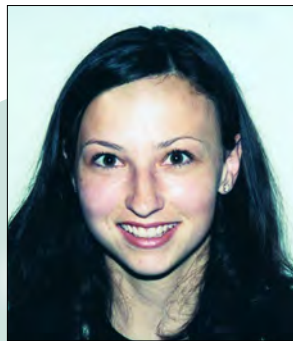
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# Endowed Awards

## ROBERT B. HENDERSON AWARD

The Robert B. Henderson Award was established by Dr. Henderson's family, colleagues and friends to honor his memory. Dr. Henderson was a member of the Chemistry and Biochemistry Department from 1955-1983 and a distinguished scientist and teacher of organic and general chemistry. Recipients for this award are chosen from among bachelor's and master's graduates as those best exemplifying Dr. Henderson's scholarship and commitment to the profession of chemistry. This year's award of \$1,000 was presented to **YVONNE BURNS AND DMITRY PERVITSKY**.



Yvonne Burns

Yvonne, a December 2000 BS Chemistry and BS Biochemistry graduate, is employed by Accelrys, a scientific software company and subsidiary of Pharmacoepia, where she works in "inside sales." Yvonne will eventually enter an MBA or PhD program. She is also this year's winner of the Analytical Chemistry Award, the Biochemistry Award, the Robert B. Rhodes Award and last year's Kelly Scientific Resources Award in inorganic chemistry.



Dmitry Pervitsky  
(with daughter, Vera)

Dmitry, who received his MS in Chemistry in the summer of 2001 under the supervision of Dr. Lijuan Li, has continued on to the PhD program in chemistry at UC Irvine where he will be a research student of Dr. Bo Hong. Dmitry was also honored this year with the

American Institute of Chemists Graduate Award and was also named to the Graduate Dean's Honor List. For the past two years Dmitry has been the Dr. Michael Monahan Summer Research Fellow.

## KENNETH L. MARS SCHOLARSHIP

This \$1,000 scholarship, established by faculty, staff, family, friends and former students on the occasion of Dr. Ken Marsi's retirement, is used to defray registration fees of an outstanding junior or senior chemistry or biochemistry major. This year's scholar is **EVA MORLOK**.



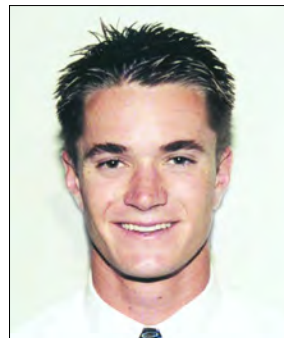
Eva Morlok

Eva, a biochemistry major, will be in her senior year this fall and is a research student of Dr. Douglas McAbee. She was last year's recipient of the Spyros Pathos Award and a co-recipient of the Diagnostic Products Corp. Award. Eva plans to continue on for her PhD in biochemistry and enter the academic profession.

## MICHAEL MONAHAN FELLOWSHIP

The Monahan Award was established through a generous 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 and a member of the faculty at the Salk Institute and subsequently a senior research scientist with Beckman Instruments. Dr. Monahan was also the founder and president of California Medicinal Chemistry Corp. In 1985-87, following his retirement, he served as a lecturer in our department. According to his will, the income from his bequest is to be used to support student research in our department. This is the fourth year this \$2,500 award has been given.

**ERIC SUNDBERG**, this year's Monahan Fellow, will be a senior BS Chemistry major in the fall of



Eric Sundberg

2001. During the summer he was a research student of Dr. Lijuan Li. He also shared the Spyros Pathos Award this year, and last year was the recipient of the Freshman Chemistry Award. Eric plans to enter medical school following graduation.

## SPYROS PATHOS IV AWARD

The Spyros Pathos IV Award is presented annually to a student excelling in the second semester of general chemistry, Chemistry 111B. This year is the fifth year that the Pathos Award has been granted. The 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.

**KATHLEEN HIGH AND ERIC SUNDBERG** are this year's awardees.



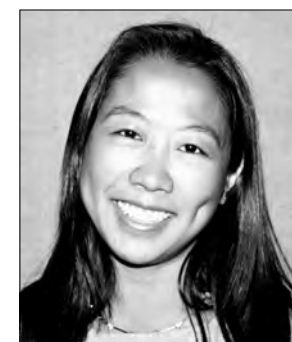
Kathleen High

Kathleen is a senior BS Biochemistry major and a returning student who worked previously in business for 23 years before enrolling at CSULB. Following graduation she plans to work for a non-profit environmental foundation.

Eric Sundberg (see the Michael Monahan Fellowship above).

## DAVID L. SCOGGINS AWARD

This award memorializes David L. Scoggins, a 1968 BS chemistry graduate of CSULB and a graduate student and teaching assistant in the Department of Chemistry at the time of his death in 1969. This award recognizes outstanding scholarship and promise by a graduating chemistry or biochemistry student who intends to pursue a career in one of the health-related professions. The Scoggins scholar this year is **HELENE PAO**.



Helene Pao

Helene, a BS Biochemistry graduate, intends to enter medical school. She was last year's Diagnostic Products awardee.

## JOHN H. STERN AWARD

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



Roger York

**ROGER YORK**, this year's Stern awardee, is majoring in chemical engineering and is a junior this fall. He was a transfer student from Grossmont College in San Diego, and plans to continue on for a PhD in chemistry or chemical engineering. He is currently a research student of Dr. Chris Slowinski. ■

# Awards to Chemistry/Biochemistry Students

**FRESHMAN CHEMISTRY AWARD:**  
Yu Lim & Shaina Magness

**AMERICAN CHEMICAL SOCIETY POLYMER CHEMISTRY AWARD:**  
Yannis Papastamatiou

**ANALYTICAL CHEMISTRY AWARD:** Yvonne Burns

**MERCK AWARD IN ORGANIC CHEMISTRY:**  
Chiharu Kumagai & Lauren Ihde

**BIOCHEMISTRY AWARD:**  
Cheryl Ea & Yvonne Burns

**INORGANIC CHEMISTRY AWARD:**  
Ulf Kiehne

**AMERICAN INSTITUTE OF CHEMISTS BACCALAUREATE AWARD:**  
Jared Ashcroft

**AMERICAN INSTITUTE OF CHEMISTS GRADUATE AWARD:**  
Dmitry Pervitsky

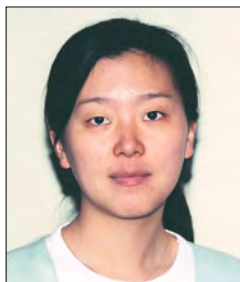
**TONI HORALEK AWARD FOR DEPARTMENTAL SERVICE:**  
Caroline Carter

**HYPERCUBE AWARD:**  
Chosu Khin

**DIAGNOSTIC PRODUCTS CORPORATION SCHOLARSHIP:**  
Chosu Khin & Eva Morlok

**DEPARTMENTAL HONORS AT GRADUATION:**  
Sotiria Contos, Matthew Harris & Michael Eagan

**KHALIL SALEM AWARD:**  
Eddie Correa



Yu Lim



Chiharu Kumagai



Ulf Kiehne



Chosu Khin



Shaina Magness



Lauren Ihde



Jared Ashcroft



Sotiria Contos



Yannis Papastamatiou



Cheryl Ea



Caroline Carter



Students on tour of the Hyperion Water Treatment Plant in Playa Del Rey. Left to Right: Caroline Carter, Gian Gacho, SAACS Faculty Sponsor, Dr. Peter Baine, Uyen Dang and Tsu-Chi Hsu.

The Student Affiliates of the American Chemical Society participated in a wide variety of events during 2000-2001, making it an interesting year.

SAACS attended the ACS regional meeting in San Francisco during October, where Jennifer Guzzo and Jackie Duvall presented a poster together on their research. In April, we attended the ACS 2001 national meeting in San Diego. We viewed numerous posters, heard speakers presenting a wide variety of topics and met students from other schools at the Undergraduate Kick-Off Social. Registration fees and hotel costs for the meetings were provided by SAACS with money earned by the

Garb Sale, which is held at the start of each semester.

Once again, SAACS sponsored a canned food drive for Thanksgiving. A decorated box was placed in front of the chemistry stockroom to collect food for the needy.

Several speakers were hosted by SAACS during the year, providing useful information to students. During the fall, Denise Lutz of Kelly Scientific Resources presented information on finding a job in the field of chemistry and the services that KSR provides. Dr. Donald Reish presented information on participating in science internships for school credit. SAACS met with Dr. Andrew Fisher, professor of chemistry at UC Davis, to discuss

graduate school opportunities in chemistry. We also had the opportunity to meet and have lunch with the Allergan Distinguished Visiting Lecturer, Dr. Catherine Fenselau of the U of Maryland, in March.

In May, we attended a field trip to the Hyperion Water Treatment Plant in Playa Del Rey, sponsored by the ACS Younger Chemist Committee. We saw (and smelled!) just what happens to water after it is flushed or washed down a drain. We were also given a tour of some of the labs of the facility.

SAACS sponsored several social events during the year. We participated in the College of Natural Sciences & Mathematics Student-

Faculty mixer in March, handing out fliers and information about SAACS to interested students. Dr. and Mrs. Baine graciously hosted both the end-of-the-semester winter party and the spring fling party, an opportunity for students and faculty alike to relax after the stress of finals. SAACS also hosted a pizza party for students, faculty and staff at Ecco's Pizza on the last day of classes in May, where Dr. Baine was presented with a gift in appreciation for his sponsorship of SAACS. In addition, we continued to sponsor the coffee and donut hour every Friday morning, where students and faculty are able to meet informally. ■

by Caroline Carter — President • 2000-2001 —

# Chemistry ALUMNI Biochemistry NEWS

**We very much appreciate the time you have taken to inform us about yourselves, 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. Alumni having both bachelor's and master's degrees from our department are listed under the year they received their bachelor's degree. To communicate about the Newsletter or to send information, write to: Dr. Ken Marsi; Department of Chemistry/Biochemistry, California State University, Long Beach; Long Beach, CA 90840. FAX: 562/985-8557. E-mail: kmarsi@csulb.edu.**

1956 – 1969

## DR. OLIVER M. BROWN

BS Chemistry 1966, PhD 1970 Kansas State U, is Professor of Pharmacology at the SUNY Upstate Medical University College of Medicine in Syracuse, N.Y. He is involved in teaching and educational administration and is phasing out of research. "I do lots of consulting on drug-related court cases, and I am enjoying gardening, landscaping, sailing and playing with old tractors and old cars."

## DR. ROGER CLARK

BS Chemistry 1966, MS Chemistry 1970, PhD U of Utah, is a chemist for the French company, Total, and lives in Pottstown, Penn. Son, Bill, is a software engineer at Rational Computer in Boston and his twin brother, Jim, is a mechanical engineer at American Meter Co. in Erie, Penn. Roger and Carol are anticipating Roger's retirement and are thinking of returning to California.

## DR. ALAN CUNNINGHAM

Chemistry Minor 1956, MA Biology 1958, PhD Chemistry UC Santa Cruz, has retired from his teaching position at Monterey Peninsula College after 26 years of teaching chemistry.

## VIOLETA DADUFALZA

MS Biochemistry 1967, continues to work at the Children's Hospital of Orange County.

## ALAN DISTEFANO

BS Chemistry 1968, MBA UC Irvine, is Director, Global Trade and Investment, with the State of Nevada, Commission on Economic Development in Carson City, Nev. "In addition to my position with the State of Nevada, my wife and I own our own export business. We exclusively represent six U.S. environmental companies with our own distributor network in 20 countries in Asia and Latin Ameri-

ca. I also serve on boards or committees of the U.S. Department of Commerce, the Nevada District Export Council, the Nevada World Trade Council and the International Resource Center of Northern Nevada."

## DR. FRED DORER

BS Chemistry 1961, PhD Chemistry U of Washington, Seattle, now retired as Academic Vice President from California State University, Bakersfield, has taken a part-time assignment with the Western Association of Schools and Colleges. He facilitates accreditation visits and reviews programs. Son, Garrett, works for Chemonics International and lives in Cairo, Egypt. Son, Russell, lives in Boston and has completed two years of a clinical residency in pathology at Harvard Medical School. He received a Howard Hughes Fellowship to do basic cancer-related research.

## DR. DAVID R. FAGERBURG

BS Chemistry 1967, PhD Organic Chemistry U of Washington, is Assistant Professor of Chemistry at Northeast State Technical Community College, Blountville, Tenn. "Downsizing in some cases works out very well. I retired from 29 years at Eastman Chemical Co. in December 1999 and went into full-time college teaching in January 2000."

## DIANE MCGANN

Chemistry student, MA Instructional Media, teaches at Santa Ana High School. Last November she was coordinator for high school students' programs for National Chemistry Week sponsored by the Orange County Section of the American Chemical Society. In 1999 she received the ACS award for exceptional teaching service in the Southwestern United States.

## TIM MCGAULEY

BS Chemistry 1968, MS Chemistry California State U Northridge, is employed as a chemist with the Product Assurance Laboratory in Pine Bluff, Ark. "We are one of the few, if not the only, Army installations to have its own production line, making nearly all the smoke mixes used by the Armed Services, as well as flares and incendiaries. We also store about 12 percent of the nation's stockpile of chemical weapons. I purchased an ocean-going yacht in 1997 and would like to take it out on a trial voyage next year from its home port of Superior, Wis., to a port in the Gulf."

## JOANNE EHTESHAMZADEH MYERS



Joanne Myers, husband Bill, and stepdaughter.

BS Chemistry 1963, MS Chemistry 1967, retired as an employee of the California State Compensation Insurance Fund. She recently spent time in Germany (see photo) where "those two years of German in the '60s paid off." Son, Robert, is a programmer in New York, and son, Raymond, lives in Sacramento where he is a jazz musician. Joanne and husband, Bill, live in Fresno.

## JOHN S. NELSON

BS Chemistry 1969, JD Loyola University, was the featured speaker at the January meeting of the Orange County Section of the ACS. His topic was "Breast Implant Litigation: The Intersection of Science and Law." John is a

founding partner of Nelson & Nelson (1995), an insurance defense litigation firm whose cases include toxic torts, construction defect and fraudulent personal injury claims. From 1992-1995 he worked at Morgan, Armbrister, Nelson & Nelson, which was one of several defense firms representing Dow Corning Corp. in the breast implant litigation.

## GILBERT OGLE

BS Chemistry 1968, worked for TRW for 20 years in space travel, lasers, combustion and environmental science and is now semi-retired and a golf professional at Alta Sierra Country Club in Grass Valley, Calif.

## DR. ALAN J. SENZEL

BS Chemistry 1967, MS and PhD Chemistry UCLA, is employed as Publications Manager for the International Union of Pure and Applied Chemistry in Research Triangle Park, N.C. As such he has responsibility for the monthly journal, *Pure and Applied Chemistry*; the bimonthly news magazine, *Chemistry International*; and about 25 IUPAC-sponsored conferences held around the world each year. "I'm in my third year as IUPAC Publications Manager. My daughter, Lisa, received her MD from Albert Einstein College of Medicine in June and began a residency in clinical pathology. She earned her PhD in neuroscience in 1999. My son, Richard, works as a statistical analyst for TV Guide in New York City." Alan and Phyllis celebrated their 32nd wedding anniversary in June.

## GLORIA LEONARD SHELTON

BS Chemistry 1968, works as Senior Account Representative for Baker Industrial Chemicals in Bellingham, Wash. "Tell your students that there is a great need for 'chemical generalists' in the various fields of industrial water treatment; a little bit of engineering (fluid mechanics) helps. The problem-solving techniques that seem to come 'naturally' to most chemists are very much in demand and not easily taught. And most engineers are lacking the understanding of the chemistry of processes—pressure and temperature are all they seem to understand!"

1970 – 1979

## DR. TED A. BAILEY

BA Chemistry 1973, BA Visual Science and OD 1977 Southern California College of Optometry, is an optometrist in Santa Cruz, Calif.

## RAY CALLOWAY

BS Chemistry 1978, and now retired from Aerospace Corp., continues to volunteer many hours in the Long Beach Unified School District. "There is such a great need. I am able to provide some elementary students with an introduction to science that wouldn't otherwise be possible." His daughter, Lisa Thompson (BS Chemistry 1995), is a forensic scientist employed by Orange County.

## DR. STEPHEN CASTELLINO

BS Chemistry 1979, PhD Chemistry UC Riverside. "I've been at Glaxo Wellcome for three years in drug metabolism doing LC-NMR to support pre-clinical and clinical studies. The science continues to be challenging and rewarding. I still enjoy lab work and have tried to avoid confinement to an office. Life is pretty chaotic with one son graduating from high school, a daughter and son in middle school and the youngest in elementary school. The family and I spend our leisure time cycling, playing volleyball and hiking."

## PHIL R. COWAN

BS Chemistry 1971, works as a Senior Engineer/Scientist with Boeing Aerospace in Huntington Beach, Calif.

## DR. HIDEKI GOKO

MS Chemistry 1977, is Assistant Professor of Chemistry at Kobe University School of Medicine.

**RICK GOYT**

BA Chemistry 1977, manages a senior housing facility in San Luis Obispo and is building a new senior facility in Templeton, Calif. In his "spare" time he is working toward his teaching credential in chemistry, physics and math.

**STEPHEN HEADRICK**

BA Chemistry 1979, MS USC, is an Integration and Test Manager in Systems Test Engineering with Lockheed Martin Space Systems in Palo Alto, Calif. "I moved back to California in 1993, started working for Lockheed Martin and am enjoying myself with as many outdoor activities as I can find." Many alumni may remember that Steve was a former Stockroom employee at CSULB.

**JOSEPH KAUFMAN**

BS Biochemistry 1983, is Vice President for Bioinformatics with Agilix Corp. in New Haven, Conn. "In 1999 I co-founded Agilix Corp., a genomics and proteomics company, in New Haven, Conn. We are developing next generation universal DNA microarrays." Joe lives in Hamden, Conn.

**DR. CLAUDE LASSIGNE**

BS Chemistry 1970, PhD Simon Frazier U, is Professor of Chemistry and department chair at Kwantlen University College, Surrey, British Columbia, Canada. Claude, a bicycling enthusiast, is recovering satisfactorily from a serious bicycle accident requiring extensive surgery.

**DR. LUIS LOMELI**

BA 1978, MD UCLA, is completing a book titled *Dermatology in Primary Care & a Visual Perspective of Clinical Medicine*. "My medical practice is thriving, and it allows me to privately finance medical care for the working poor." Luis and Diana have two children, Danica (17) and Nathan (15). Luis practices medicine in Ontario, Calif.

**DR. MARIANNE MARSI**

BS 1978, PhD Chemistry UCLA, is R&D manager at DuPont's Central Research & Development Laboratories in Wilmington, Del. She manages several groups in the Corporate Center for Analytical Sciences that are involved in surface science research and NMR technology.

**PAT MCKAY**

MS Biochemistry 1979, celebrated his 20th year at Genentech and works in the Recovery Sciences (Process Development) Department and teaches part time at Skyline College in the evening division. Daughter, Allison (11), received an Academic Achievement Award upon graduation from elementary school and enjoys science. Son, Brian (15), will begin his junior year in high school. "He continues to excel in school, receiving academic awards in geometry (he finished first in his school and 10th in the state for the statewide competition), algebra and biology."

**RANDALL E. SMITH**

BA 1978, MA West Coast U, is employed as an Engineer Scientist Specialist in Materials Engineering with Boeing in Huntington Beach. Randall worked for Hughes Aircraft before joining McDonnell Douglas in 1987. McDonnell Douglas was purchased by Boeing several years ago.

**1980 - 1984****SCOTT BARKER**

BA Chemistry 1982, is Sales Director for Gunther International in Cool, Calif.

**DR. GREGORY DOWNS**

BA 1981, MD Medical College of Wisconsin, is employed as an anesthesiologist and critical care physician and lives in Shorewood, Wis. "I enjoyed my time at CSULB without question. I am currently president of a 41-member anesthesiologist group in Milwaukee and fly part-time for charitable organizations in the area."

**ELLEN GREENMAN**

BS Chemistry 1984. "Having completed a four-year Landscape Architecture Certificate Program at UCLA, I am now phasing out of teaching at Hollywood High School and beginning a new career in Landscape Architecture. I hope to be licensed in about another year. It is a very exciting change! I've given 14 years to the public schools and now it is time to move on. My daughter has embarked on her third year at Berkeley, but is spending this year abroad in Padua, Italy."

**DR. LARRY MANES**

BA 1981 Chemistry, PhD UC Santa Cruz, is Vice President and Director of Chemical Manufacturing at Gilead Pharmaceutical in Foster City, Calif. and is also Chief of Scientific Operations for the ALS Therapy Development Foundation, a non-profit organization that is developing new therapies for the treatment of ALS or Lou Gehrig's disease. "The foundation's efforts are now growing rapidly in numerous directions related to identifying drugs for development for treatment of ALS." The foundation has a web site at [www.als-tdf.org](http://www.als-tdf.org). His wife, Cristina Diaz, teaches a course in marine biology at Cal State Monterey. About three years ago Larry was diagnosed with a slowly developing form of ALS.

**MELANIE GRADY PATTERSON**

BS Chemistry 1978, MS Management Redlands University. "I spent 20 years (1979-1999) working in both aerospace and pharmaceutical laboratories. In August of 1999 I



*Melanie Grady Patterson and family.*

made the decision to leave the 9-5 scene to spend more time raising my children. During my career as a chemist and Lab Manager, I gained considerable knowledge in the area of Laboratory Information Systems (LIMS). This expertise has allowed me to start my own independent LIMS consulting service called Lab Data Consulting. I work 10-20 hours per week around my children's school schedule. It has been wonderful! When I am not chauffeuring the kids to their various activities, I spend time volunteering at the children's school, at church activities and raising the family dog. The quality of the education I received at CSULB has played a major role in my professional success and I shall continue to support the department to show my gratitude. My husband and I have four children: Jasmine, 18 (she will be attending CSU Fullerton in the fall), Stuart, 15, Renee, 9, and Victoria, 8.

**DR. KENNETH YAMAGUCHI**

BS 1980 Chemistry, MS Chemistry 1981, PhD Chemistry UC Riverside, is Associate Professor of Chemistry at New Jersey City University, Jersey City, N.J. "I have been busy this year with grant

writing and research and other professional activities."

**1985 - 1989****DR. ANDREA BAXTER**

*Dr. Andrea Baxter, husband Derek Case and daughter, Loren Case.*

BS Biochemistry 1988, MD U of Oklahoma, and her husband, Derek, are parents of a daughter, Loren Illisa Case (1-1/2). Andrea is in family practice in St. Louis, Mo. and was chosen chief resident. She lives in Belleville, Ill.

**TIM BRADY**

BA Chemistry 1987, has a naturopathic medicine practice in Whittier, Calif.

**DR. HUGH CECIL**

Chemistry 1988, MD UC Davis, works in a group practice in Kalispell, Mont., where he specializes in vascular and interventional radiology. He is also the Chief of Diagnostic Radiology at the Kalispell Regional Medical Center. "We have just purchased a new MRI and have an outpatient imaging center in the works. I've never regretted this choice of specialties." His wife, Denise, teaches at the local community college.

**DR. KERRY DEGROOT**

BS Biochemistry 1988, MD Georgetown U, and Dr. Jacqueline DeGroot announced the arrival of a son, Pieter Christian, born Jan. 14, 2001. Kerry is an anesthesiologist and medical school faculty member at Georgetown U in Washington, D.C.

**DR. DWAYNE D. GERGENS**

BS Chemistry 1987, PhD Chemistry UC Irvine, is now Associate Professor of Chemistry at Mesa College in San Diego.

**DR. RAY GRITTON**

BA Chemistry 1987, MD Hahnemann College of Medicine, and Dr. Liva Yates-Gritton announced the birth of a son, Raymond James Gritton, Jr, born on Aug. 15, 2000.



*Dr. Ray Gritton, Dr. Liva-Yates Gritton, and children, Jasmine and Ray Jr.*

**DR. ERICH KELLER**

BS Biochemistry 1989, PhD UC Santa Barbara, is in his second year of a fellowship with the National Institutes of Health in Bethesda, Md.

**DR. DAVID A. LEE**

BS Chemistry 1989, PhD Organic Chemistry UC Davis, is Technical Leader in Performance Additives and Fluids with Great Lakes Chemical Corp. in West Lafayette, Ind. "Our products include additives for lubricants and industrial fluids and additives for specialties such as waxes, paints and coatings, medicinal applications, etc."

**DR. LARRY MATSUMOTO**

BS Biochemistry 1987, MD Creighton U, is a physician with a perinatal group in Dallas, Texas, and he and Susan and their three children are enjoying life in their first new home in Plano.

**DR. RODNEY SOLGONICK**

BS Biochemistry 1988, MD UC Davis, is an anesthesiologist with the Champlain Regional Medical Center in Plattsburg, N.Y.

**LEO J. STEMLER, JR.**

BA Chemistry 1988, is Technical Support Manager for RPS Industries, a Division of Endress + Hauser, Inc., in Brea. Leo is active in the Orange County Section of the ACS, having served as Section Chair. "I have had a new challenge for the past two years: stage acting in community theater. The acting experience is similar to chemistry except that the director experiments with people and personalities instead of solutions and molecules!"

## 1990 – 1994

**NINA BAO**

BS Chemistry 1994, MS Chemistry, is a Lecturer in the Department of Chemistry & Biochemistry. Nina is completing her credential to enable her to teach high school science.

**DR. OREN BESKE**

BS Biochemistry 1994, received his PhD earlier this year from UC San Francisco and is currently employed by Virtual Arrays, Inc., a biotech company. "I get to think about a lot of different biological problems and how to apply given technologies to solve them. In fact, we have just submitted my first patent to our lawyers and should be submitting another one soon. I am running my own group with two technicians and plan to hire another." He and Michelle are expectant parents and live in Belmont, Calif. Visit his web page at <http://oren.gocc.com>.

**DR. RICH CHARLEBOIS**

BS Biochemistry 1993, DO California College of Osteopathic Medicine of the Pacific, has a medical practice in Waterville, Maine. He and Tracey Gratto, also a CSULB graduate, have two children, Caleigh (3) and Sagan (1-1/2) and live in China Lake, Maine on a 4.5 acre home site. "I have fond memories of Dr. Marsi, Dr. Steve McDowell and Dr. Roger Acey."

**ERIN CRENSHAW**

BS Biochemistry 1994, is employed by Merck Human Health Division. On March 12 she became the mother of a girl, Avery Elizabeth.

**DR. STEVEN DELL**

BS Chemistry 1993, PhD Chemistry Princeton U, is a research chemist with Novartis in Summit, New Jersey, studying reaction mechanisms by using continuous flow pressurized microwave conditions.

**DR. ALEC GREER**

MS Chemistry 1993, PhD U Wyoming, is in his third year as Assistant Professor of Chemistry at Brooklyn College in New York City. "Presently I have two graduate students and three undergraduates working in the lab. We are having fun with some natural products chemistry and also some photochemistry. Some of our photo-deoxygenation work is reminiscent of the high-valent iron porphyrin work that I did with Dr. Marco Lopez back in 1991-93!"

**MICHAEL HALL**

BA Chemistry 1995, is Training Supervisor for the Pacific Maritime

Association in the Port of Los Angeles/Long Beach, and lives in Belmont Shore.

**DR. BRIAN LAFITTE**

Chemistry Minor 1994, has received his PhD at UCLA and is doing postdoctoral research, also at UCLA.

**DR. MARIO MEALLET**

Chemistry Minor 1994, MD Harvard U, is an ophthalmology resident at the Los Angeles County Hospital. "I am in my final year of training and am once again approaching a fork in the road. I am leaning toward a future in academics and hope that doors open for me. I am in the process of applying to cornea fellowships across the country, but would like to stay in the Los Angeles area."

**JON SPENCER**

BS Chemistry 1994, is a Specialized Investigator for the California Department of Health Services, Food and Drug Branch, and lives in Huntington Beach. His work involves a combination of science, public service and law enforcement focused on the protection of public health. He inspects manufacturing sites of food, drugs and cosmetics for health compliance and is involved in the licensing and regulation of all aspects of manufacturing in these areas. Part of his job entails training manufacturing personnel in sanitation and state regulation.

**DR. JEFFREY S. PETERSON**

Student 1993, BA Business UC Berkeley, received his MA/MD from Boston University in 1996 and has just completed an emergency medicine residency at Stanford. "I am currently on the faculty in the Department of Emergency Medicine and a Fellow in the Department of Sports Medicine."

**DR. DAVID PORZIO**

BS Biochemistry 1990, MD UC Irvine, has returned to Long Beach after a cardiology fellowship at the U of Massachusetts. "I have taken a position with a cardiology practice at St. Mary Medical Center. My wife, Pam, is planning on caring for our son, Luca, until she obtains her California medical license. Cousin, Dr. Robert Porzio (CSULB 1994), just moved to Michigan to start residency training in emergency medicine."

**ROBERT STEVENS**

BS Biochemistry 1993, begins his final year of law school at Lewis and Clark College of Law in Portland, Ore.

**KIANA S. TABIBZADEH**

BA Chemistry 1990, MS Chem-

istry 1994, is Chair of the School of Physical Sciences & Technologies at Irvine Valley College.

**DAVIDE TENAGLIA**

Davide Tenaglia, wife Julia and daughter Olivia

BS Chemistry 1994, MS Chemistry 1996, works as a chemist for Windsor Research and Development, a division of Kodak Polychrome in Windsor, Colo. He, wife Julia and daughter, Olivia (1-1/2), live in Broomfield, Colo.

**DR. MIKE WANGER**

BS Biochemistry 1990, practices internal medicine in Clearwater, Fla.

**DR. GREGORY WHITAKER**

BS Biochemistry 1990, DPM Scholl College of Podiatric Medicine, received his DO Degree from Nova Southeastern University College of Osteopathic Medicine in Ft. Lauderdale, Fla. He completed a rotation at the Long Beach Veterans Administration Hospital in Long Beach, followed by a rotation with Dr. Rich Charlebois (BS Biochemistry 1993) in Waterville, Maine. He is presently in a surgical residency in Knoxville, Tenn., to be followed by an anesthesiology residency. Following his residencies he will enter the U.S. Army for four years to complete his medical school scholarship obligation.

## 1995 – 2000

**DANIEL S. BROOKER**

BA Chemistry 1997, is chemist and plant supervisor for Chem-Mex Industries, Inc. in South Gate and lives in Long Beach.

**MARTHA DE LA ROSA**

MS Chemistry 1997, continues her work on the PhD in Chemistry at UCLA.

**THANG DINH**

BS 1995, MS UC Irvine, formerly employed by IDUN Pharmaceutical in La Jolla, is now working at Allergan Pharmaceuticals in Irvine in the Chemical Sciences Department.

**NANCY J. GARDNER**

BA Chemistry 1995, MS Chemistry 1997, continues as a Lecturer in the Department of Chemistry & Biochemistry at CSULB. "I enjoy being involved in the creation of

our new class, Explorations in Chemistry. This class is for future elementary education instructors. Developing experiments and lectures is challenging but fun. I would like to see this activity become part of an outreach program, extending seminars to instructors who are already teaching elementary school. Next year this new class will become part of the Service Learning Curriculum."

**RANDAL GOFF**

BS Chemistry 1999, is a PhD student at Brigham Young University in Provo, Utah. He enjoys TAing in freshman chemistry and organic chemistry. Prior to entering graduate school he was laboratory manager and general manager for Sherwin, Inc. He is co-author of two papers in *Materials Evaluations Periodical*.

**THACH HO**

BS Chemistry 1995, MS Chemistry 1997, is serving as a lecturer in the Department of Chemistry & Biochemistry and teaching quantitative analysis and organic chemistry.

**GAIL JONES**

BS Biochemistry 1998, is a math teacher at Granite Bay High School in California.

**SHIRIN KHORASHADI**

BS Biochemistry 1999, is a pharmacy student at UC San Francisco. "I really enjoy pharmacy school and am very happy about my decision. UCSF is a great school. My undergraduate studies at CSULB are helping me a lot, especially organic chemistry and biochemistry. I have recently started to work at Walgreen's pharmacy during my studies."

**PHILLIP D. MARCHIS**

BS Chemistry 1998, is a radiochemist and Staff Research Associate at UCLA.

**KAREEM MORGAN**

BS Chemistry and BS Biochemistry 2000, spent the past summer at UC San Francisco engaged in biochemical research.

**DR. BAO THIEN VU NGUYEN**

Dr. Bao Nguyen

Student 1997, received his DDS degree on June 3 from UCLA Dental School and began his dental ca-

reer at the Camp Pendleton Marine Base this year. Although Bao was a biochemistry major, he was accepted into dental school at the end of his junior year.

**NAOMI-TRANG NGUYEN**

BS Biochemistry 1998, worked for two years in diabetes research with Novo Cell in Irvine. She is presently a volunteer with Americorp, working with the American Red Cross, assisting with disaster relief in Southern California.

**HIRAL PATEL**

BS Chemistry 2000, is employed with Truett Laboratories, Inc., a pharmaceutical company. "Thanks to the CSULB Chemistry & Biochemistry Department that gives students an opportunity to be creative and think on their own."

**KEVIN PHILLIPS**

BS Biochemistry 2000, is working toward his PhD in physical chemistry at Harvard U. "I work for Dr. David Liu who started here 1-1/2 years ago. We have eight full-timers (seven grads and one post-doc) and six undergrads. Most of our group's work is geared toward molecular-directed evolution; namely, trying to expand the current techniques of the directed evolution of peptides and nucleic acids to include unnatural small molecules as well (see our web site: [evolve.harvard.edu](http://evolve.harvard.edu)). So far, my work has been an exercise in organometallic chemistry...everything is water stable but very oxygen sensitive, so I have gotten pretty good at air-sensitive work."

**PATRICK PIERCE**

BS Biochemistry 1997, MS Biochemistry 2000, is a lecturer in the Department of Chemistry & Biochemistry.

**JOEL DANIEL PONCE**

MS Chemistry 2000, has returned to Mexico, but is planning to come to the U.S. again to study for his doctorate in chemistry at UCLA.

**GIL RAMIREZ**

BA Chemistry 1997, is an inorganic chemist with Montgomery Watson Laboratories in Pasadena. He reports that alumni Carol Jean Belt and Tuan Nguyen are also employed with Montgomery Watson Laboratories.

**JEFFREY L. ROGERS**

BS Chemistry 1999, BS Geology U of Missouri, works as a Technical Support Chemist with Litho-Chem, Inc. in Santa Fe Springs. "My styrene acrylic coating formulations set new performance levels for the graphic arts industry." ■

# Plans of Some of Our 2000-2001 Graduates

**JARED ASHCROFT**  
BS Chemistry  
PhD Program, Rice University

**MONTY BADGER**  
MS Biochemistry  
Dow Agriscience, San Diego

**BRIAN C. BAKER**  
BS Biochemistry  
MS Biochemistry Program,  
CSULB

**YVONNE BURNS**  
BS Chemistry,  
BS Biochemistry  
Accelrys, San Diego

**SOTIRIA D. CONTOS**  
BS Chemistry  
MS Chemistry Program, CSULB

**EDWARD CORREA**  
BS Biochemistry  
UCLA School of Dentistry

**MICHAEL J. EAGAN**  
BS Biochemistry  
UCLA School of Medicine

**BRUCE T. GORMLEY**  
BS Chemistry  
Ablestik Labs, Carson

**FRANK LE**  
MS Biochemistry  
Dental School, UCLA

**MATTHEW E. HARRIS**  
BS Biochemistry  
Medical School, USC

**DAEKEUN JOO**  
MS Biochemistry  
Medical School,  
U of Cincinnati

**THOMAS KELLY**  
MS Biochemistry  
Bausch & Lomb

**KIAN KANI**  
MS Chemistry  
PhD Program, UCLA

**KAREEM A. MORGAN**  
BS Chemistry, BS Biochemistry  
Law School

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BS Biochemistry  
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**VIPAL M. PATEL**  
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**DMITRY PERVITSKY**  
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**GENE ROZUMOV**  
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PhD Program, UCLA

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MS Biochemistry  
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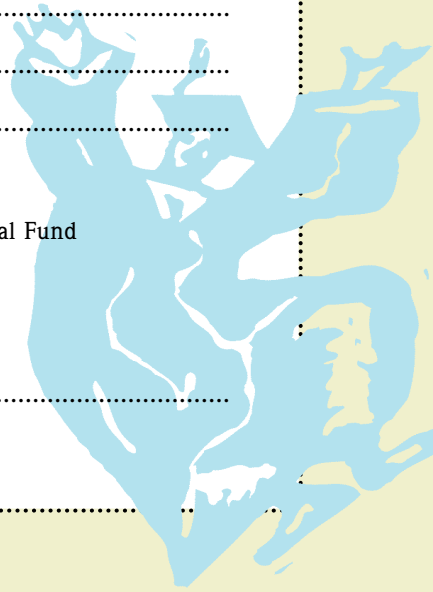
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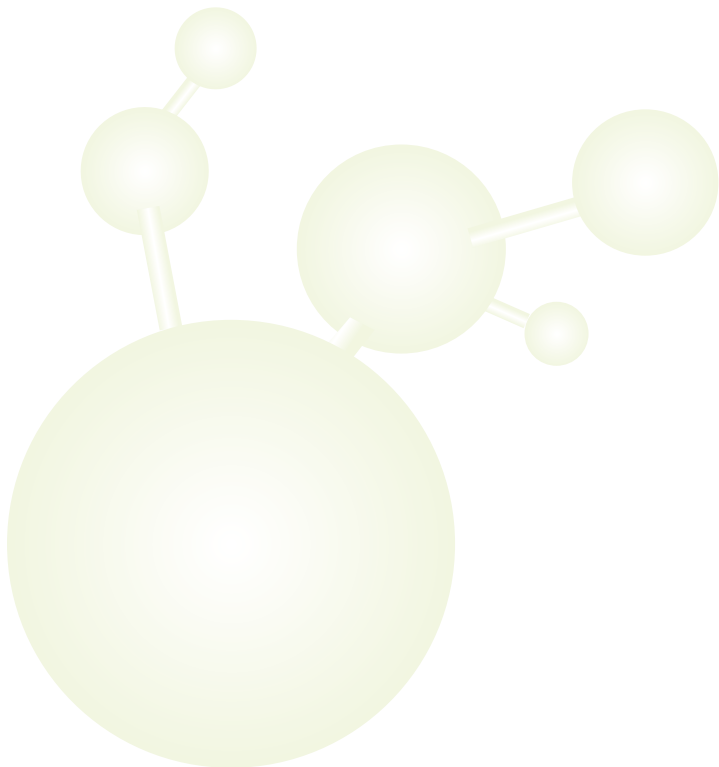


*Members of the 2000-2001 Graduating Class with several members of the Chemistry and Biochemistry Department faculty.*

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