Dr. Bette T. Korber
Named Distinguished Alumna College of Natural Sciences & Mathematics

At 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 on 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.

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. 1, 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 single 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 her 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.”

In 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

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

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 appointment 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 McBee (1997), now a tenured associate professor, Dr. Liguan 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 Aschcroft 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.

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.
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 predominately 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.

By Glenn Nagel
Dean, College of Natural Sciences and Mathematics

Dr. Catherine Fenselau
Allergan Distinguished Visiting Lecturer

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 Spectrometry. 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 structure. 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 lecturership is sponsored by a generous gift from Allergan Pharmaceuticals, Inc.
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 Bain.
I have been “acting” 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 during the summer. 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 Nuñez, 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 Vipal Patel, defended their master's theses. Danny’s thesis, “Synthesis and NMR of Tractable Models of Aqueous Heme Proteins,” was defended in summer 2000, and Vipal’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 (O2, 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 “interred” 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 sulfonylimidate 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 Wirde, 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 Acay. 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 Marsi 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 forward to working with another select group of students during the fall of 2001. I am looking forward to meeting the future scholars and assisting them in their academic careers.
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 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 overload 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-interacting 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-independent 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 learning 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. Naii Senozan, Dean Glenn Nagel and my biochemistry colleagues (Drs. Merryfield, Acery and Kohler) for their unstinting support and encouragement during my first four years here at CSULB. I would also like to thank Gina 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 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 was a 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), Rozihan Mahmud (Malaysia), Shuchin 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 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 established collaborative efforts of several international students who came to Long Beach for their education. They are Janet Hunting (US), Rozihan Mahmud (Malaysia), Shuchin Shen (Taiwan) and Theodore Nguyen (Vietnam).
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 Calrgary, 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 Canada Ltd. While with the AEC he investigated the free radical chemistry of iodine containing compounds in plasmas in water, the supercritical fluid roloid 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 BS 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.”

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 contributed a small section to Dr. Dennis Anjo to add some new experiment objects to the Chem 251 Lab. We have also inquired about new computer experiments 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 1118 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)2L2 (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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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, Fl. “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 1980 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.

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.

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.

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)-1,3-oxathiolane.”

In Memoriam

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.
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 are received 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
1250 Bellflower Boulevard
Long Beach, CA 90840-3903

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

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

The total value of gifts to the department, in-kind and cash, during the fiscal year ending June 30, 2001 was $12,562.50. 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 Uolver and Dr. Dennis Van Westerhuyzen.

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

- Allergan Foundation*
- CRC Press
- Diagnostic Products Corp.*
- Hypercube, Inc.
- Lab Support*
- Merck & Co.
- National Starch and Chemical Foundation (Ablestik Labs.)*
- Raytheon*
- U.S. Borax, Inc.*

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

- Boeing* (Dr. Norman Byrd)
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- McDonald's Corp. (Chris Appleton)
- GlaxoWellcome (Dr. Steve Castellino)

*Companies are members of the Chemistry & Biochemistry Advisory Council

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.

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.
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.

Eva Morlok, a December 2000 BS Chemistry and BS Biochemistry graduate, is employed by Accelrys, a scientific software company and subsidiary of Pharmacia, 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. Marsi 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.

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

Michael Monahan Fellowship
The Monahan Fellow 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, earnings 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 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.

Kathleen High and Eric Sundberg are this year's awardees.

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, 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, 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 Sadowski.
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.

### 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 & Yu Lim

**Inorganic Chemistry Award:** Ulf Kiehne

**American Institute of Chemists Baccalaureate Award:** Jared Ashcroft

**American Institute of Chemists Graduate Award:** Dmitry Pervitsky

**Toni Horakel 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 Corea

**American Institute of Chemists Baccalaureate Award:** Jared Ashcroft

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**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 Corea
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 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@cslub.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 America. 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 Chemiconics 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."

Diamee 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
BS Chemistry 1969, JD Loyola. Her daughter, Lisa, received her MD from Stanford and is now practicing in internal medicine.

1970 - 1979

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!"

Dr. 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, Armbrecht, Nelson & Nelson, which was one of several defense firms representing Dow Corning Corp. in the breast implant litigation.

Gilbert Ogle
BS Chemistry 1966, 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. 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 Castellano
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 confine-ment 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 Goto
BS Chemistry 1977, is Assistant Professor of Chemistry at Kure University School of Medicine.
Ellen Greerman  
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. David A. Lee  
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. Evelyn Glass  
BS Chemistry 1984, is a research associate in the Department of Biochemistry at the University of Southern California in Los Angeles. She is working on a project to develop new applications for enzyme inhibitors as potential drugs for the treatment of ALS or Lou Gehrig’s disease. "The foundation’s efforts are now growing rapidly in numerous directions related to identifying new drugs for development for the treatment of ALS." The foundation has a web site at www.alsdf.org. Her husband, Dr. Gary L. Glass, is an associate professor of pharmacology at the University of Southern California School of Pharmacy and a member of the faculty at the University of Southern California School of Pharmacy.

Dr. Kenneth Yamaguchi  
BS Chemistry 1989, is the Director of the Laboratory Information Management Systems (LIMS) at the University of California, San Francisco. He is responsible for the development and implementation of LIMS for the University’s bioinformatics and proteomics company, 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. In 2000 I was appointed as Vice President and Chief Operating Officer for the company, and I am now responsible for all of the company’s operations. In 2001 I was appointed as the company’s President and Chief Executive Officer.

Dr. R. C. Schirmer  
BS Chemistry 1981, MS Chemistry 1983, PhD Chemistry 1987, is an associate professor of chemistry at the University of California, Santa Barbara. "In the past few years, I have been involved in the development of new techniques for the treatment of ALS or Lou Gehrig’s disease. The foundation’s efforts are now growing rapidly in numerous directions related to identifying new drugs for development for the treatment of ALS." The foundation has a web site at www.alsdf.org. Her husband, Dr. Gary L. Glass, is an associate professor of pharmacology at the University of Southern California School of Pharmacy and a member of the faculty at the University of Southern California School of Pharmacy.

Dr. Andrea Baxter  
BS Biochemistry 1988, is a research associate in the Department of Biochemistry at the University of Southern California in Los Angeles. She is working on a project to develop new applications for enzyme inhibitors as potential drugs for the treatment of ALS or Lou Gehrig’s disease. "The foundation’s efforts are now growing rapidly in numerous directions related to identifying new drugs for development for the treatment of ALS." The foundation has a web site at www.alsdf.org. Her husband, Dr. Gary L. Glass, is an associate professor of pharmacology at the University of Southern California School of Pharmacy and a member of the faculty at the University of Southern California School of Pharmacy.

Dr. Andrea Baxter  
BS Biochemistry 1988, 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 a Technical Leader in Product Development at Fluids and Additives 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."
DAVIDE TENAGLIA

Davide Tenaglia, wife Julia and daughter Olivia

BS Chemistry 1994, MS Chemistry 1999, is a chemist at the Lawrence Berkeley National Laboratory. His work has been an exercise in extending seminars to instructors teaching quantitative analysis and organic chemistry.

1995 – 2000

DANIEL S. BROOKER

BA Chemistry 1997, is a 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 Aileron 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."

RANALD GOF J

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

TRACH 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 Chemistry 1998, is a math teacher at Granite Bay High School in California.

SHRIN KHRASHADI

BS Chemistry 1999, is a pharmacist 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. MARCHE

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

KAREEM MORGAN

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

Hiral Patel

BS Chemistry 2000, is employed with Truet Laboratorys, Inc., a pharmaceutical company. "Thanks to the CSLUB 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 grad 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). 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s) and Year(s)</th>
<th>Employer</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>JARED ASHCROFT</td>
<td>BS Chemistry, PhD Program, Rice University</td>
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</tr>
<tr>
<td>MONTY BADGER</td>
<td>MS Biochemistry, Dow Agriscience, San Diego</td>
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<tr>
<td>BRIAN C. BAKER</td>
<td>BS Biochemistry, MS Biochemistry Program, CSULB</td>
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<tr>
<td>YVONNE BURNS</td>
<td>BS Chemistry, MS Biochemistry, Aceelrys, San Diego</td>
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<tr>
<td>SOTIRIA D. CONTENTOS</td>
<td>BS Chemistry, MS Chemistry Program, CSULB</td>
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<tr>
<td>EDWARD CORREA</td>
<td>BS Biochemistry, UCLA School of Dentistry</td>
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<tr>
<td>MICHAEL J. EGAN</td>
<td>BS Biochemistry, UCLA School of Medicine</td>
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<tr>
<td>BRUCE T. GORMLEY</td>
<td>BS Chemistry, Ablestik Labs, Carson</td>
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<tr>
<td>FRANK LE</td>
<td>MS Biochemistry, Dental School, UCLA</td>
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<tr>
<td>MATTHEW E. HARRIS</td>
<td>BS Biochemistry, Medical School, USC</td>
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<tr>
<td>DAEKUN JIN</td>
<td>MS Biochemistry, Medical School, U of Cincinnati</td>
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<tr>
<td>THOMAS KELLY</td>
<td>MS Biochemistry, Bausch &amp; Lomb</td>
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<tr>
<td>KIAN KARI</td>
<td>MS Chemistry, PhD Program, UCLA</td>
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<tr>
<td>KAREEM A. MORGAN</td>
<td>BS Chemistry, BS Biochemistry, Law School</td>
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<td>ROLANDO ALEX NUNEZ</td>
<td>BS Biochemistry, Medical School of University of Illinois, Chicago</td>
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<td>VIMAL M. PATIL</td>
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<td>DIMITRY PERRYTSKY</td>
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<td>PATRICK E. PIERCE</td>
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### Dear CSULB Chemistry Alumnus:

Please fill out and return the requested information to:
Department of Chemistry and Biochemistry, California State University, Long Beach,
1250 Bellflower Boulevard, Long Beach, CA 90840-3903

You may respond electronically by the following procedure:
1. open the department's web page at http://www.chemistry.natsci.csulb.edu,
2. click on Newsletter,
3. click on the Alumni Response,
4. on the side bar, scroll to Alumni Response.

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#### Alumni Response Form

- **Name**: 
- **Address**: 
- **City**: 
- **State**: 
- **Zip**: 
- **Home Phone**: 
- **Home e-mail address**: 
- **CSULB Degree(s) and Year(s)**: 
- **Other Degree(s) • Year(s) • School(s)**: 
- **Occupation**: 
- **Job Title**: 
- **Employer**: 
- **Employer's Address**: 
- **Business Phone**: 
- **Business e-mail address**: 

1. Please give us information about yourself (job, further education, family, scientific achievements, etc.) which you would like included in next year's Newsletter. Photos for publication are also welcome. (Please continue comments on an additional page if needed.)

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

You may use your Visa or MasterCard.

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