



CHEMISTRY DEPARTMENT NEWSLETTER

August 1984 No. 9

Danute Basiulis, MS '77, Named Outstanding Alumnus of 1984



Danute Basiulis, Outstanding Alumnus, and Dr. Richard I. Akawie in the organic laboratory at Hughes Aircraft. Dr. Akawie and the late Professor Robert Henderson were graduate students together at UCLA.

Danute "Dana" Basiulis, MS '77, was presented an award as the Outstanding Alumnus of the School of Natural Sciences at the 1984 Commencement Ceremonies on May 31. Dana began working at Hughes Aircraft as a chemist after completing her master's degree under the direction of Dr. Kenneth Marsi. Since joining Hughes, she has risen rapidly to her present position as head of the Composite and Structures Section, Materials Science Department, in the Technology Support Division. At the time of her appointment, she was the only woman section head in the division.

Dana earned her undergraduate degree at the University of Massachusetts in 1959, but postponed her scientific career while raising a family of two children. "Dana provides inspiration for all women who seek eventual professional fulfillment, but whose careers

have been delayed by the important responsibilities of parenthood," stated the letter of nomination.

Her contributions to Hughes have also been noted with the awarding of two certificates of recognition in 1982. In 1984 she received a special commendation for outstanding work at Hughes Aircraft.

Dana is a valued member of the Chemistry Advisory Council, a group of industrial representatives who advise and support our department. Through her effort Hughes Aircraft now sponsors a scholarship for a chemistry graduate student completing his first year of graduate studies.

Dana is the second chemistry alumnus so honored. In 1980 Dr. Evord Knights, BS '64, Vice President of Union Oil of California, Chemicals Division, was similarly recognized.



Dr. Efraim Racker, Rachele Lecturer

Dr. Efraim Racker: Fifth Rachele Lecturer

For its fifth annual Rachele Lecturer, the Chemistry Department was host to a visit by one of the "grand old men" of biochemistry, Dr. Efraim Racker of Cornell University. Racker received an MD degree from the University of Vienna and taught for many years at New York University before becoming Albert Einstein Professor of Biochemistry in 1966. Although his initial work was in the field of neuro-chemistry, Racker is best known for his pioneering studies in characterizing the mitochondrial inner membrane complexes which comprise the electron transport system. In recent years, Racker has focussed his attention on protein kinases, enzymes which phosphorylate cellular proteins, and their role in malignant transformation. This has become a very "hot" field since the discovery that some oncogenes, or cancer genes, direct the production of novel protein kinases which phosphorylate tyrosines in various target proteins.

Dr. Racker visited CSULB on March 7, 1984, and delivered two seminars. A talk for laymen on "Drugs and Mental Illness" gave an overview of the chemistry and biology of psychoactive substances. The traditional luncheon with the ACS Student Affiliates was followed by a seminar on "Oncogenes, Transforming Growth Factors, and Protein Export," dealing with some of the recent results from Dr. Racker's laboratory.

The department is grateful to Rachele Laboratories for its continued support of this excellent series.

Dr. Henry Po Receives 1983-84 Scholarly and Creative Achievement Award

Dr. Henry Po, a member of the chemistry faculty since 1968, became the second member of our department to receive a Scholarly and Creative Achievement Award. Dr. John Stern was the 1981-82 award recipient.

Dr. Po is among the most published and widely recognized members of our faculty. He is the author of twenty-nine publications in internationally respected journals and is invariably invited to prestigious Gordon Conferences, attendance at which is usually limited to persons who have made significant contributions in a particular area of chemistry. Dr. Po's research speciality is reaction mechanisms of complex ions. He is regularly invited to present seminars at nearby universities and was honored by a visiting professorship at his *alma mater*, UC Davis in 1982. He attracts into his research group many of the brightest and most talented undergraduate research students who recognize the excitement and significance of his work. The percentage of his master's students who continue on to PhD programs in chemistry is quite remarkable.

Dr. Po was honored at a ceremony on May 3, 1984, at which the President of the University, Dr. Stephen Horn, spoke of the need for "role models" to set the tone of the university for the future.

Dr. Howard Stephens, BS '65, Award Recipient

Dr. Howard Stephens, BS '65, received the "Distinguished Member of the Technical Staff" award from Sandia National Laboratories, January, 1984. The award, which consists of a cash prize and a plaque, recognizes sustained performance or unique contributions related to the technical missions of the Laboratories. The citation reads in part: "for sustained, outstanding technical contributions that include the development of state-of-the-art calorimetric techniques, the assessment of geologic data for selection of nuclear waste storage sites, and an understanding of solvent hydrogenation mechanisms and the operation of novel catalysts in direct coal liquefaction." This is the second round of awards for Howard. In March, 1982, he was presented with the Richard A. Glenn award by the ACS Fuel Division for outstanding work in bituminous coal research. Howard received his PhD from Purdue University in 1970.



Stuart Nowinski

Stuart Nowinski, BS '75, Wins Outstanding High School Teaching Award

Stuart A. Nowinski, BS '75, a teacher at San Marino High School, was presented with the American Chemical Society's Southern California Section Award for outstanding performance as a teacher of high school chemistry. The award was made on May 23, 1984, at a regular meeting of the section. Stuart became the Section's nominee for the 1984 American Chemical Society Western Regional Conant Award, which he also won! Stuart is now eligible for the 1985 James Bryant Conant Award in High School Chemistry, a national award sponsored by the Ethyl Corporation.

Three years ago one of Stuart's students at San Marino High School won the Section's annual high school chemistry contest, and for the last four years he has had one or more students in the top ten in the contest.

Stuart is an elected member of the Executive Committee of the Southern California Section of the ACS and is an officer in the California Association of Chemistry Teachers. Needless to say, we are proud that Stuart is numbered among our alumni, and we wish him well as he is considered for the National Conant Award.

Don't Knock Safety Around Karen

by Gitta Dixon

When you open the doors to the stockrooms of the Chemistry Department, there is not one hint of disorder. Bottles and containers are neatly labeled and arranged on shelves along with other items that are categorized.

Karen Lynn Knox, supervising instructional support technician III, is responsible for the organized stockrooms and other safety precautions. Knox was a recent recip-

ient of the 1982 Governor's Employee Safety Award along with 60 other state employees who were recognized for their on-the-job safety performances.

A tremendous clean-up campaign was started by Knox upon arriving at CSULB two years ago. "I try to make my surroundings pleasant by being clean and organized."

Although Knox is surprised that she was chosen for the award, Dick Hunt, environmental health and occupational safety officer, believes the award was well deserved. "Karen is an energetic and dynamic young lady. In knowing what existed before and what exists now, Karen has done an outstanding job, and I am impressed with her performance thus far."



Karen Knox receives the Governor's Award from Arthur G. Scotland, the Governor's Cabinet Secretary, at an awards ceremony in the Governor's Office in Sacramento.

Beside restoring the stockrooms, Knox has accomplished other tasks. She maintains inventory for the Chemistry Department and handles all of the waste chemicals for the department as well as the campus. Knox is also a member of the safety committee.

Frank Rizzardi, systemwide environmental health and safety administrator, said there are three main reasons for nominating Knox. "Karen implemented dynamic clean-up programs for hazardous substances within the Chemistry Department, she contributed to the reorganization and development of safety procedures that improve communications within the department and she completely revised storage and inventory control programs in conformance to safety codes which have contributed to an improved health and safety working environment."

In two years, Knox has accomplished a great deal, but she still has more projects in the process of being started. "The glass stockroom is the last room left. I will have to make it earthquake safe. The old equipment will be taken out of teaching labs and then the research labs will be the only labs left to clean."

It looks as though Karen Knox will be very busy for quite awhile.

Editor's note: Gitta Dixon is a writer for the University publication, Network, an in-house weekly bulletin. This article appeared in the August 5, 1983 issue.



CSULB representatives visit Getty Synthetic Fuels Laboratories. Left to right: Dr. James Jensen, Associate Dean, School of Natural Sciences; Dr. Kenneth Marsi, Chair, Department of Chemistry; Dr. Stephen Horn, President; Dr. Dick Jenkins, Laboratory Director, Getty Synthetic Fuels, and member of the Chemistry Advisory Council.

CHAIRMAN'S REPORT

The past year has been an eventful one and filled with accomplishments by faculty and students. It also promises to be a prologue for very important changes for the immediate future.

Awards. A number of faculty, alumni and students have been the recipients of well-deserved awards. Among faculty, Drs. Po, Senozan and Stern have been cited for their outstanding contributions, and among alumni Danute Basiulis, Stuart Nowinski and Dr. Howard Stephens received special commendations. Karen Knox, a technical staff member was honored by the governor, for her contributions to a safe working environment for students and employees.

Enrollments. The Chemistry Department experienced the highest enrollment in its history, admitting 5,400 students to classes during the 1983-84 academic year. Unfortunately, our resources have not grown with our enrollments so ingenuity and frugality have been practiced by faculty and staff alike to meet educational demands.

Chemistry Advisory Council. This group of industrial representatives has increased in number and commitment to our program. The Council has been in existence for six years, and it has become an integral part of our department, providing advice, material support, educational internships and job opportunities for our students. New companies represented include Hewlett Packard, Ameritone Paint Corporation, Arco, Monsanto, and Brown and Caldwell.

Facilities. The new Henderson Organic Laboratories were occupied by students last fall after many construction delays. These laboratories reflect the competence of Dr. Henderson's planning skills and are nearly flawless in their operation. They are certainly among the most outstanding organic chemistry laboratory facilities in the nation.

The Future. Our plans for the future include: (a) A BS degree in biochemistry; the degree proposal has been favorably reviewed on campus by several committees. If all goes well, we hope to inaugurate this degree in the fall semester of 1986. (b) Complete renovation of most of our undergraduate instructional laboratories. The state appropriations for 1984-85 include \$182,000 for planning a 2.5 million dollar renovation program. General chemistry, qualitative and quantitative analysis, biochemistry and physical chemistry laboratories will be completely modernized if future proposals are funded. (c) The hiring of four additional tenure-track chemists in the coming three years to offset the loss of eight of our faculty during the last five years. If approved, hiring will be in the area of biochemistry, inorganic, organic and physical chemistry.

On behalf of the faculty and staff of this department, I wish to thank the alumni for their increasing awareness that their help can make a difference in the improvement of our department, and for their response in providing input for the five-year review. Our appreciation also is extended for the thoughtful and enthusiastic assistance of the Advisory Council. Finally, a "thank you" to the Stu-

dent Affiliates of the American Chemical Society for their loyalty and for their sponsorship of social and educational programs so important to maintaining a high morale and lively spirit within the department.

Best wishes, Ken Marsi

Corporate Gifts to the Chemistry Department

We are pleased to note the support of the following companies, funds and foundations. During the past year approximately \$28,000 in cash and in-kind gifts were presented to the Department of Chemistry. Of this amount, \$15,700 was designated for student awards, scholarships and graduate summer research fellowships. Faculty and students are profoundly grateful for the thoughtful assistance offered by these organizations. In a modestly funded department such as ours, this support has played a significant role in helping to maintain a quality program.

Ameritone Paint Corporation
California Foundation for Biochemical Research
Coastal Water Research
Dow Chemical USA
Getty Synthetic Fuels, Inc.
Hughes Aircraft Company
Hyland Laboratories
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Minirem Corporation
Monsanto Fund
Naples Laboratories
Niklor Chemical Company, Inc.
Occidental Research Corporation
Rachelle Laboratories
Specialty Laboratories, Inc.
Stauffer Chemical Company
TRW
Union Oil Company of California

- In 1983, the Department of Chemistry at CSULB ranked tenth in the nation in the number of students graduating with MS degrees in chemistry, 18.
- Since 1958 women account for 39% of those receiving bachelor's degrees in chemistry from CSULB. Forty-five percent of the 1984 graduating class consisted of women.
- California State University, Long Beach, was named among the top ten best comprehensive universities in the western United States in a survey of 662 of America's college presidents published in the November 28, 1983, issue of *U.S. News and World Report*.

Department Welcomes New Tenure-Track Faculty

Dr. Dennis M. Anjo, will be joining the analytical chemistry faculty as an Assistant Professor starting fall, 1984. Dr. Anjo received his BA and MS degrees from San Francisco State University and his PhD in analytical chemistry from Arizona State University in 1984. His research thesis, "Photoacoustic Profiles of Compounds in Skin," was performed under the direction of Dr. Thomas Moore. Prior to beginning his PhD studies he was a member of the research staff at UC San Francisco for several years. Dr. Anjo's research interests include photoacoustic spectroscopy, molecular spectroscopy, and chromatographic detection techniques. His major teaching assignments will include quantitative analysis, instrumental analysis, and advanced analytical methods.



Dr. Dennis M. Anjo

Dr. Margaret L. Merryfield, a biochemist and native of Texas, did her undergraduate work at Rice University where she was elected to Phi Beta Kappa. Her doctoral work, completed under the famous enzymologist, Henry Lardy of the University of Wisconsin, was a study of the regulation of the key gluconeogenesis enzyme phosphoenolpyruvate carboxykinase by metal ions. After receiving her PhD in 1981, she moved to Lester Reeds' laboratory at the University of Texas, where she studied the role of phosphorylation and dephosphorylation in the regulation of branched-chain keto acid dehydrogenase (BCKDH), a key enzyme of amino acid catabolism. At CSULB Dr. Merryfield will bring expertise in enzymology to our biochemistry faculty. In addition to teaching introductory biochemistry, she will be breathing new life into our presently dormant graduate course in enzymology, and she plans to continue her research on the BCKDH system.



Dr. Margaret L. Merryfield



Dr. Alfred Burger

Dr. Alfred Burger: Henderson Memorial Lecturer

On April 11th, the department welcomed the distinguished medicinal chemist, Professor Alfred Burger, of the University of Virginia, Charlottesville. Dr. Burger spoke on "Methods, Purpose and Applications in Medicinal Chemistry" while presenting the Robert B. Henderson Memorial Lecture as a special feature of the departmental seminar series.

Dr. Burger kept the audience enthralled by recounting incidents, both personal and scientific, during his long years of research in specialized areas ranging from synthesis of morphine substitutes to antimalarial substances, organophosphorous compounds to psychopharmacological drugs.

Dr. Henderson worked in Dr. Burger's laboratories at Virginia in 1947-48 before returning to California and, in 1955, becoming the first permanent member of the CSULB chemistry faculty. A paper in the *Journal of Organic Chemistry* (1955), coauthored by Burger and Henderson, reported their work on heterocyclic phosphonic acids. At a reception following the seminar, Dr. Burger was pleased to renew the acquaintance of Mrs. Dora Henderson and to reminisce on the Charlottesville of a third of a century ago.

Dr. Burger's books include "Medicinal Chemistry" (now in its 4th Edition), "Drugs Affecting the Central and the Peripheral Nervous Systems," and most recently "A Guide to the Chemical Basis of Drug Design." On the day Dr. Burger was giving his seminar at CSULB, the annual Alfred Burger Award in Medicinal Chemistry was being presented at the ACS National Meeting in St. Louis to George H. Hitchings of Burroughs Wellcome Laboratories, U.K.

Minority Access to Research Careers

The School of Natural Sciences received a Minority Access to Research Careers (MARC) Grant for a five year period which began August, 1983. Dean Roger Bauer is the director and Dr. Henry Fung is the coordinator. Presently, the four outstanding students in the MARC Scholars Program are Luis Ledesma, Lenora Mendoza-Noroski, Michael Peters-Perez, and Denise Romero. Three of the four students are working with members of the chemistry faculty as their research mentors.

Luis Ledesma is studying with Dr. R. Acey on *delta*-aminolevulinic synthetase activity in *Artemia salina* (brine shrimp). This enzyme is a rate-limiting enzyme in heme biosynthesis and may be useful in studying specific gene expression in developing eukaryotic organisms. Lenora Mendoza-Noroski has Dr. A. J. Berry as her mentor. She is trying to determine if thyroid-stimulating specific immunoglobulins from Graves' dis-

ease patients affect thyroid hormone production and iodide uptake. Such studies may lead to availability of more convenient, more accurate, and less expensive assays to identify Graves' patients. Michael Peters-Perez is studying the formation of methemoglobin under Dr. N. Senozan's direction. Mr. Peters-Perez will be investigating the ability of selected compounds, ions, and physical conditions to enhance or prevent methemoglobin formation.

The MARC program for honor undergraduate scholars at CSULB permits selected scholars to be introduced to and become familiar with many of the current biomedical research techniques now being employed in biomedical research and to perform original research under the supervision of a faculty mentor as part of their chosen baccalaureate degree program. Each scholar is reimbursed for his/her tuition, fees, and approved expenditures and receives a monthly stipend not to exceed 24 months total.

Robert B. Henderson Memorial Award Presented to David N. Cook

The first recipient of the Robert B. Henderson Memorial Award is David N. Cook who graduated with a BA in Chemistry in May of this year. The presentation was made at Commencement ceremonies.

David previously had received an AB degree in American Studies from Harvard University in 1982. Deciding that there was little of interest that he could do with that degree, he came to CSULB in the summer of 1982 to begin taking premedical course work in preparation for a career in medicine. David became fascinated with the beauty and excitement of chemistry and abandoned career plans for medicine in favor of what he hopes will be an academic career in chemistry. He has been accepted into the PhD program at UC Berkeley where he will work in physical organic chemistry. His wife, Abbey, will be a student in the geology PhD program at Berkeley.

David graduated with a perfect 4.0 (straight-A) average, and managed to compress all classwork required for the BA into two years of study starting with college algebra, freshman chemistry and beginning physics.

The Henderson Memorial Award was established by colleagues, friends, former students and family of the late Professor Henderson to "recognize a graduating student who has demonstrated outstanding scholarship and who holds exceptional promise for a distinguished career in chemistry."

Department Undergoes Five-Year Review

During the past year the Chemistry Department conducted a self study as a prelude to an external review during the coming academic year by an as yet unnamed reviewer, a chemist selected by the administration from among the five leading chemistry departments in the nation. The self study resulted in a lengthy report which will be made available to the external reviewer.

Part of the input for this study came from alumni who responded to our request for an anonymous evaluation of our program. Among outstanding strengths of the department listed by alumni were good teaching, strong faculty, good student-faculty interaction and emphasis on basics. The most noteworthy weakness noted (30 respondents) was poor equipment. Graded answers to five questions about the department received uniformly excellent responses. Among areas recommended for improvement were: obtain better equipment, create more industrial ties and do more vocational counseling.

Six years ago our department formed an industrial advisory council which has been of significant help in assisting faculty with vocational counseling. The Council meets with faculty twice each year for informative exchanges of views on curriculum and educational philosophy.

Another interesting fact to emerge from our questionnaire is that 42% of our respondents did not enter the university with a major in chemistry but changed to chemistry from another area.

A summary of educational levels and career affiliations of responding alumni is presented:

Highest degree obtained:

PhD	22%	JD	2%
MD	9%	MS	29%
DDS	5%	MBA	4%
PharmD	3%	BA/BS	26%

Summary: 41% doctorates, 33% masters, 26% bachelors.

Occupations:

"Chemist" 22
College Professor 16
Management 12
Research Chemist 11
Engineer 10
Physician 9
Dentist 7
Quality Control 6
Pharmacy 4
Computer Tech 3
Sales 3
Self Employed 3
Criminalist 2
Attorney 2
Environmental 2
Biochemist 2
High School Teacher 2

Conducted simultaneously with the external review, but unrelated to it, is the five-year accreditation review of our department by the American Chemical Society. We're having a very busy, bureaucratic year!

Gifts by Individuals to the Chemistry Department

Giving to the Chemistry Department by individuals amounted to \$2807 during the past year. This includes gifts to the Robert B. Henderson Memorial Fund. We are indeed pleased that increasing numbers of alumni, friends and faculty recognize the value to the department of private giving. These resources are used for student scholarships and help support educational enterprises such as conferences and our weekly seminar program. Emergency research needs are often met with these funds, books are purchased for our collection and some publication expenses of articles authored by faculty are paid from gifts.

The scope and intensity of our program, I believe, considerably exceeds the expectations of the State of California. Assistance from individuals such as yourself and corporate giving, reported elsewhere, have had a significant impact and have contributed to the enrichment of our students' education. State institutions often have an aura of sterility about them, but thanks to private and corporate giving, we have been able to initiate and support activities which give character to our program and help personalize students' educational experiences.

Gifts in any amount are enthusiastically received, and I will acknowledge contributions with a personal letter of appreciation. Make any checks payable to: *California State University, Long Beach Foundation* (or more simply, *CSULB Foundation*) and send them to the *Department of Chemistry, California State University, Long Beach 90840*.

With sincere appreciation, Ken Marsi

1983-84 donors:

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- Enrollment at CSULB in the spring of 1984 was 30,199 students.

HONORS TO CURRENT STUDENTS AND NEW GRADS

Stephen Bigus	Rachelle Laboratories Summer Research Fellowship
Jose "Mike" Baza	Harvard University Summer Fellowship
Anne Carey	Graduation with Distinction
David Cook	Alumni Award
	American Institute of Chemists Award
	Award in Inorganic Chemistry
	Award in Physical Chemistry
	Graduation with Great Distinction
Dwight Gergens	Robert B. Henderson Memorial Award
	Alumni Award
	Honors for Service
Katherine Helgoe	Toni Horalek Award for Service to the Chemistry Department
	Award in Biochemistry
	Alumni Award
	Gold Nugget Award, Associated Students
	Graduation with Distinction
Jocelyn Honda	Freshman Chemistry Award (CRC Handbook)
Dwayne Ishida	Union Oil of California Summer Research Fellowship
Janet Kiang	Getty Synthetic Fuels Summer Research Fellowship
	Outstanding Graduate Student, School of Natural Sciences
	Rachelle Medal, Outstanding Graduate Student in Chemistry
Larry Klein	Rachelle Laboratories Summer Research Fellowship
Thomas Krause	Alumni Award
	Award in Physical Chemistry
Hung Lee	Union Oil Company of California Summer Research Fellowship
Lily Lim	Alumni Award
	Merck Award in Organic Chemistry
Mary Martha Molina	California Heart Association Summer Fellowship
	Mortarboard Honor Society
Brian Moore	Alumni Award
	Award in Inorganic Chemistry
Lenora Noroski	Harvard University Summer Fellowship
Anjana Patel	California Foundation for Biochemical Research Summer Research Fellowship (1984)
Michael Peters-Perez	Cornell University Summer Fellowship
Khanh Pham	Getty Synthetic Fuels Summer Research Fellowship
Theresa Rohr	Golden Nugget Award, Associated Students
Michael T. Salman	Graduation with Distinction
Deborah Schwyter	California Foundation for Biochemical Research Summer Research Fellowship (1984)
	Rachelle Medal, Outstanding Graduate Student in Chemistry
Paul Serra	California Foundation for Biochemical Research Summer Research Fellowship (1983)
Tyrrel Smith	Hughes Aircraft Graduate Fellowship
Anne Tolles	California Foundation for Biochemical Research Summer Research Fellowship (1983)
Nancy Tuler	Alumni Award
	Honors for Service
	Toni Horalek Award for Service to the Chemistry Department
Stephen Wilhelm	Dean Rhodes Award

STUDENT AFFILIATES REPORT by Martha Molina, President

During the 1983-84 academic year, the affiliates once again organized events which helped the department maintain its personal, small college atmosphere.

Weekly coffee and donut hours brought students and faculty together informally, as did the annual taco feast in November. The Christmas party, attended by about 150 students and faculty and graciously hosted by Dr. Marsi and his wife, successfully topped off the fall semester.

Spring saw the acquisition of the SAACS study rooms and lounge, thanks to the persistence of previous SAACS members and Dr. Marsi. After a fresh coat of paint, the SAACS furnished the rooms, and used them for meetings and movies, as well as a place to meet friends and hang out.

A potluck at the home of Dr. Baine, our faculty advisor, relieved the anxiety of

faculty and students alike prior to finals. The capstone of the year was the Pizza Awards Luncheon, a tremendous success with over 100 students, faculty, and staff attending.

All events were funded by the sale of lab glasses and aprons by the SAACS. The past year was very successful thanks to the efforts of Dwight Gergens, Nancy Tuler, and Monica Iannessa. In addition we would like to express our appreciation to Dr. Baine, Dr. Marsi, and the Chemistry Department staff and students for their continuing support and enthusiastic participation throughout the year.

The fine reputation of this group for fostering student/faculty interaction will be continued by the 1983-84 officers, who plan to add an additional event to the chemistry calendar, a welcome back bash, October 5, at the Soroptimist House. Other plans for the coming year include the compilation of a chemistry reference library for undergraduates in the SAACS study room.

CSULB CHEMISTRY DEPARTMENT NEWSLETTER

An annual publication of the Chemistry Department for past and present students and friends of the department.

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

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- Printing and Photo Processing: Duplicating Center
- Contributors: Jeff Cohlberg, Jerald Devore, James Jensen, Kenneth Marsi, Darwin Mayfield

PRESENT STATUS OF SOME OF OUR GRADUATING STUDENTS

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

Kathleen E. Allen, BS	Hitco Corporation
Zohreh Amon, BA	Residing in West Germany
Marc Barajas, BA	Pharmacy school, UCSF
Ihab Bishay, BS	PhD program, UC Irvine
Anne T. Carey, BS	Employed in industry
Lori Childress, BA	Dental school, Temple U.
Paul C. Chinn, MS	PhD program, UC San Diego
Carlos A. Coello*	Dental school, Washington U.
David Cook, BA	PhD program, UC Berkeley
Marlene M. Corriere, BA	MS program in physiology, Georgetown U.
Gregory J. Dorsman, MS	Sybron Corporation
Dwight W. Gergens, BS	PhD program, UC Irvine
Mehdi Ghardiri-Asili, MS	Returned to Iran
Katherine L. Helgoe, BS	Medical school, UC Davis
Brad W. House, BA	BCL and Associates
Sabina R. Ilizaliturri, BA	Truesdail Laboratories
Scott D. Lothamer, BA	Dental school
Paul V. Mosher, BS	Hitco Corporation
Erich M. Mosisig, BA	Postgraduate, CSULB
Sharareh Nasser-Moaddeli, MS	IT Analytical Service
Jeffrey N. Roberts, BA	Medical school, Loyola U.
Theresa M. Rohr, BA	Medical school, Cornell U.
Michael T. Salman, BA	Medical school, Medical College of Wisconsin
Dale Shrum*	Podiatry school, San Francisco
Sho-Chein Tuang, MS	PhD program, U. of the Pacific
Nancy E. Tuler, BA	Teacher education, CSULB

*These students were accepted into the programs noted without receiving a bachelor's degree.

Where Are They Now?

Dr. Mahmoud Firouzbakht (Lecturer 1982-84), accepted a position in the Department of Chemistry at the University of Nebraska, Lincoln.

Dr. Isidore Goodman (Lecturer 1981-84), has accepted a tenure-track position at Los Angeles Pierce College in Woodland Hills, CA.

Dr. Steve Kuahara (Assistant Professor 1967-71), is Manager of Quality Control and Testing Technology at Hyland Laboratories in Los Angeles, CA.

Dr. Linda McGown (Assistant Professor 1979-81), is a tenure-track faculty member at Oklahoma State University in Stillwater. Linda and her husband, Steve, have a daughter, Jenna, who is two.

Saule Palubinskas (Part-time Instructor 1977-1983), is now employed with Truesdail Laboratories in Tustin, CA.

Dr. Larry Schaleger (Visiting Professor 1975-76), after leaving CSULB, was on the research staff at the UC Berkeley, Forest Products Laboratory in Richmond. In 1983

he accepted the position of Technical Director for Brown and Caldwell Laboratories in Pasadena, CA.

Dr. C. Grant Willson (Lecturer 1973-74), continues his work in the Research Department of IBM in San Jose, CA. Dr. Willson serves on the Advisory Board of the *Advances in Chemistry Series*, published by the American Chemical Society.

Weekly Seminar Series

The Wednesday afternoon seminar program concluded this year with a talk by Patricia Rogers (Alumnus: BS '78, presently completing her PhD with Dr. F.S. Rowland at U.C. Irvine) on "Non-RRKM Decomposition of Chemically Activated Radicals." The department maintains an active schedule of seminars and special lecturers to keep students and faculty apprised of current topics. This effort is supported largely by donations from member corporations of the Industrial Advisory Council and by alumni and friends of the Department of Chemistry. In addition to Professor Efraim Racker (Rachelle Distinguished Visiting Lecturer) and Professor Alfred Burger (Robert B. Henderson Mem-

orial Lecturer), other speakers this year included: Michael Garst, UC, San Diego; K.C. Ting, California Department of Food and Agriculture; Robert Rosenfield, UC, Davis; Kenneth Shea, UC Irvine; Michael Malley, San Diego State University; Bruno Zimm, UC San Diego; Christos Angeletakis, (Alumnus: BS '76, MS '78) Sybron Corporation; Richard Moran, Childrens Hospital of Los Angeles; Michael Lee, Brown and Caldwell; Fred Wudl, UC Santa Barbara; Peter Griffiths, UC Riverside; Michael Silverstri, Cal Poly San Luis Obispo; Mario Baur, UCLA; David Case, UC Irvine; Michael Bowers, UC Santa Barbara; M.P. Hartshorn, University of Canterbury, New Zealand; Herbert Kaesz, UCLA.

Also, Professor Tom Maricich, Jeffrey Cohlberg and Nail Senozan of this department presented stimulating seminars on their respective fields of interest. Dr. Jerald Devore was seminar coordinator for the year.

CHEMISTS: SUPPLY AND DEMAND

Data from college and university recruitment offices indicate no decline in industrial demand for chemists at any degree level.

Although some companies reporting to *Industrial Chemical News* bemoan the shortage of BS degree chemists, most of the companies that hire chemists are after those at a higher degree level.

Some kinds of chemists are more popular than others. Of the companies responding to a recent *Industrial Chemical News* survey, 36% said they were looking for analytic chemists, while an additional 33% were planning to hire organic chemists this year. Ten percent of the companies were looking for physical chemists and 10% were seeking bio-chemists. Chemists in least demand were inorganic, agricultural and polymer specialists.

Demand for biochemists is expected to remain high in the future for a variety of jobs in industry which have opened because of advances in biotechnology and immunochemistry. There also is a need in the allied health area for biochemistry majors with training in medical technology and biomedical engineering. However, as in other scientific disciplines, the immediate prospects are not good for biochemists who seek academic appointments. Decreased federal funding for basic research has limited the opportunities for biochemists in government and private foundations.

Manpower Comments

- Two of the country's most famous football coaches, Knute Rockne and Vince Lombardi, supplemented their income in the early days of their coaching careers by working as college chemistry instructors, according to the American Chemical Society.

FACULTY NOTES

Dr. Roger A. Acey has been involved in the study of the citrus tristeza virus (CTV), a disease prevalent in Southern California. This work has been funded by the California Department of Food and Agriculture, and the grant has been renewed for 1984-85. During the summer, Eric Itakura, a student from Los Alamitos High School, joined his research group under the sponsorship of the Committee for Advanced Science Training. CAST affords academically qualified high school students the opportunity to work in a research environment so that they may develop an understanding and appreciation of biomedical research.

Dr. Vasil Babamov has been appointed Visiting Lecturer in Physical Chemistry for a second year. Dr. Babamov is on leave from Instituto Tecnológica de Tijuana, Tijuana, Mexico, where he is Professor of Chemistry in the Center for Graduate Studies. He is also Visiting Associate at California Institute of Technology where he works in collaboration with Dr. Rudolf A. Marcus, Arthur Amos Noyes Professor of Chemistry. His undergraduate education was obtained at the Universities of Skopje and Ljubljana, Yugoslavia, and his PhD in Chemical Physics was earned at the University of Illinois, Urbana.

Dr. Roger D. Bauer continues as the Dean of the School of Natural Sciences and received a Public Health Service Grant for continuation of the Minority Access to Research Careers (MARC) Undergraduate Research Training Program. **Drs. Berry, Acey and Senozan** are participating in this program, sponsoring research of student trainees.

Dr. Ephraim Ben-Zvi will be a Lecturer in Physical Chemistry during the 1984-85 academic year. For many years Dr. Ben-Zvi was a faculty member and department chair at Immaculate Heart College in Hollywood. After the college closed he was employed at Arco, and during the past year he has served as part-time lecturer in our department. Dr. Ben-Zvi received his BS in chemical engineering from Israel Institute of Technology and his PhD in physical chemistry at UC Davis.

Dr. Michael P. Cohen will join the organic group this fall as a Lecturer. Dr. Cohen received his BA from Grinnell College in Iowa and his PhD from Brandeis University this year where he worked in association with Dr. Myron Rosenblum in organometallic chemistry. While at Brandeis, Michael received the Chemistry Department Award for Outstanding Teaching Assistance.

Dr. Jeffrey Cohlberg, after spending a sabbatical leave in Germany learning about intermediate filaments, spent a busy year in the department as the new Graduate Advisor in biochemistry and setting up a research program on organization of protein subunits in intermediate filaments, which has attracted several research students.

Dr. Dorothy M. Goldish serves as an evaluator for the Senior Commission of the Western Association of Schools and Colleges, which is the official accrediting agency for four-year colleges. This year she served as a member of the team that visited CSU, Hayward, for reaccreditation. Dr. Goldish was the keynote speaker for the Phi Beta Kappa initiation this year.

Dr. James L. Jensen, after serving a year as Acting Associate Dean of the School of Natural Sciences, was appointed Associate Dean. Research activities this year have focussed on concluding the study of mechanisms of acetal hydrolyses. Ongoing projects include a study of acid/base catalysis of hemiacetal breakdown and GC/MS analyses of the impact of organic pollutants on the marine environment.

Dr. Gene E. Kalbus, a member of the California Energy Education Forum, the State-wide Energy Consortium and the California Radioactive Materials Management Forum, was invited to view and study the low radioactive waste disposal sites in Nevada for the purpose of aiding in the establishment of similar disposal sites in California.

Dr. Margaret L. Kline will begin a one-year Lectureship in Organic Chemistry this fall. Dr. Kline received her AB in Chemistry from UC Irvine where she worked as an undergraduate research student with Dr. Marjorie Caserio. Her PhD was obtained at Brown University under the direction of Dr. R. G. Lawler and was in the area of free radical chemistry. She is presently associated with Dr. Christopher Foote as a postdoctoral student at UCLA.

Dr. Van T. Lieu will be on sabbatical leave during the spring semester of 1985. During the last year he has received four grants from the City of Long Beach for the study of oil field injection water quality control, for enhanced oil recovery, for determination of oil in brine, and for the study of reclaimed sewage water characteristics for oil field injection. He presented a paper, "Chemical Reactions with Reservoir Sand in the Recovery of Petroleum in Alkaline Flooding," at the 1983 Northwest Regional Meeting of the ACS in Honolulu, Hawaii.

Dr. Robert Loeschen is presently the coordinator of freshman chemistry (Chem 111A) and is busy attempting to computerize statistical information relating to the course. Dr. Loeschen is the author of an article,

"Motivating Students in Lab/Problem Sessions," in Vol. 1 of *Occasional Papers on Teaching and Learning*, December, 1983.

Dr. Tom J. Maricich was promoted to Professor of Chemistry, effective fall, 1984. His professional activities during the past year have included presentation of a seminar to the department entitled, "The Chemistry of Iminosulfonates. Synthesis of Novel Antitumor Agents," and the publication of two papers in *J. Org. Chem.*

Dr. Kenneth L. Marsi continues as department chair. A publication of his is scheduled to appear this year in *Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry*. In June Dr. Marsi attended the Organic Reaction Mechanisms Conference at Duke University.

Dr. Darwin Mayfield spent the spring semester on sabbatical leave perusing first editions published during the dawn of chemistry as a modern science. In recent years the Huntington library of San Marino has been actively collecting rare books and journals in selected areas of the sciences. The present collection numbers over 100 volumes in chemistry including such treasures as Robert Boyle's *The Skeptical Chymist*, London (1662) and Antoine Lavoisier's *Traite elementaire de chimie*, Paris (1789). Dr. Mayfield has been working at the Huntington on the significance of the gas laws in the evolution of chemistry as a modern science and on various explanations for the century-long retardation in the development of chemistry from about 1670 to 1770.

Dr. Louis Perligut, emeritus professor but still teaching part time in the Chemistry Department, and **Dr. Nancy Adin**, a part-time instructor, have co-authored a laboratory manual for use in the nutritional biochemistry laboratory. The manual is presently being considered for publication by several publishers.

Dr. Henry N. Po spent the fall semester of 1983 at UC Irvine where he wrote several manuscripts from accumulated research data. During the past summer he attended the ICCS Conference at Boulder, Colorado, where he met with other chemists in his area of interest. "I am still doing research in inorganic chemical reactions and electro-chemistry and am very enthusiastic about my laboratory work," says Dr. Po. During the past year Dr. Po was presented with the University's Scholarly and Creative Achievement Award and was also the recipient of the Exceptional Merit Service Award, which carries with it a stipend of \$1500. Dr. Po was cited for his "nationally recognized work in coordination chemistry." Dr. Po currently holds a Petroleum Research Fund Grant.

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ALUMNI NEWS

Dr. Nail Senozan will spend the 1984-85 academic year in Izmir, Turkey, as a Fulbright Scholar. He plans to devote part of his time to the Medical School, working on thalassaemia, an inherited hemoglobin disorder common among the children of the Aegean. His wife, Diane, will accompany him, and together they plan to spend time on the island of Lesbos, the birthplace of Diane's grandfather. An article, "Organic Nitrates and Nitrites as Heart Drugs," coauthored with Sharareh Nasser-Moaddeli, will appear in *J. Chem. Educ.* in September, and another paper entitled, "Methemoglobinemia: An Illness Caused by the Ferric State," is scheduled for publication early next year. Dr. Senozan was accorded the University's 1984 Exceptional Merit Service Award which carries with it a stipend of \$1500. In his letter of nomination he was cited for interpreting advances in chemistry to a broad segment of the scientific community.

Dr. Philip L. Stepanik has been appointed Lecturer in Biochemistry for the 1984-85 academic year. Dr. Stepanik received his BA from Lycoming College, Williamsport, PA, his MS from Northern Arizona University, and his PhD from the University of North Dakota in biochemistry. He comes to us from UC San Diego where he has been a postdoctoral associate with Dr. Darrell Fanestil.

Dr. John H. Stern continues his calorimetric studies. Dr. Stern, recipient of the 1981-82 Scholarly and Creative Achievement Award, this year was named Exceptional Merit Awardee and will receive \$1500 in connection with this honor.

Dr. Leslie Wynston was program chairman for the Annual Western Regional Meeting of the Association of Advisors to the Health Professions and was elected President-Elect of that organization. His University Extension wine courses continue to be popular evening classes, and he has continued with his participation in the University's international education programs, both here and abroad.

- During the years 1949-1983, CSULB conferred 79,175 undergraduate degrees and 16,136 graduate degrees. Since it began awarding degrees in 1958, the Chemistry Department has conferred 621 bachelor's degrees and 179 master's degrees.



Herein brief mention is made of some of the accomplishments and the present status of 142 of approximately 700 chemistry alumni. We eagerly look forward to hearing about you in the coming year. Please use the back page of this *Newsletter* to respond. If space permits, we would be happy to publish photos as well as news from you in our next *Newsletter*. We use the *Newsletter* in career counseling with students who are interested in chemistry majors and want to know what one can do with a degree in chemistry. This column points up the diversity of occupations available to students with degrees in chemistry and the successes alumni have achieved in their careers.

1960

Dr. Robert A. Flath, BS '60, is at the USDA's Western Regional Research Center in the Biocommunication Chemistry Unit, working on plant-insect interaction.

1961

Dr. Fred H. Dorer, BS '61, leaves his position as Academic Vice President at Sonoma State University for a similar position at California State College, Bakersfield. Fred was a faculty member in chemistry at California State University, Fullerton, and also at San Francisco State University where he served as Department Chair.

Dr. Arie A. Passchier, BS '61, MS '63, is involved in gas phase contamination analysis in inertial instruments for Rockwell International using gas chromatography and mass spectrometry. His work also involves application of high vacuum techniques to the development and manufacture of inertial instruments and infrared detectors. The Passchiers have two children, Jason (9) and Eric (7).

1962

Dr. G. David Homer, BA '62, MS '65, is presently an associate scientist with the Aerojet General Corporation in Sacramento. He works with the anti-cancer group which is a contract producer of anti-cancer drugs for the NCI. "My responsibilities include process development for multi-kilogram quantities and long-range basic research in a variety of areas of interest to Aerojet; i.e., polymer-supported catalysts, electro-organic synthesis." He and his wife, Barbara, have two boys, Jason (12) and Michael (6). They enjoy outdoor life: camping, fishing, and backpacking.

Dr. Myron C. Reese, BS '62, is beginning his fifteenth year on the faculty at McKendree College, Lebanon, Illinois, where he is

Professor of Chemistry. Recalling his undergraduate years, Myron says, "I remember Dr. Henderson very well. Because of him, I decided to major in chemistry."

Terrence C. Van Buskirk, BS '62, is senior technical representative in the Western Region for Akzo Chemie America/Arma Chemicals and is responsible for fatty amine chemical sales to industrial accounts. He is married and has three children.

1963

Courtney Anderson, BS '63, MS '65, writes, "I have the dubious honor of being the Department Chairman at Santa Rosa Junior College. In a small department the opportunity arises frequently. I really enjoy teaching; this is my eighteenth year here."

1964

Gerald Beadel, BS '64, is a candidate for the MBA degree at CSULB.

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

Kahirup "Rupree" Torre, '64, was featured in the September 20, 1983, issue of the student newspaper, *The Daily Forty-Niner*, in connection with an article, "Careers Opening for Women." Rupree has been working for the State of California Air Resources Board and has been in air pollution work for the last 13 years. In the article she is quoted as saying that the most important thing a woman must be aware of when entering a nontraditional career is office politics. "That's something college doesn't teach you. You can't ignore it; you have to deal with it. Nonacceptance by men is no longer a problem, however, because of the greater number of women in the job market."

1966

Dr. Donald W. Hayden, BS '66, is teaching chemistry at Lakeland College near Sheboygan, Wisconsin, and has bought a house on a one-acre plot out in the country.

1967

Joanne (Farvolden) Ehteshamzadeh, MS '67, is a research and applications chemist for Rug Doctor, Inc. in Fresno, California.

Dr. David Fagerburg, BS '67, is a research associate in the Eastman Chemicals Division Research Laboratories. He recently published several articles on some of his work in three different polymer journals.

Dr. John Kulluk, BS '67, MS '69, and his wife have two children, Megan Elaine who is one, and Craig, seven.

Dr. Tom McLaughlin, BS '67, is currently an environmental scientist with the Environmental Protection Agency working in the Office of Research and Development on physical parameters affecting the rate of absorption of toxicants into the body. He is married to Elaine Casserly, a 1974 graduate of CSULB. Elaine works at the USDA as a technical information specialist in the field of nutrition. Their first child, Ellen Therese, is now two years old.

Dr. Alan J. Senzel, BS '67, is senior chemist at Research Triangle Park, NC, for Del Green Associates, Inc., Foster City, CA, and is working on opacity measurement methodology for visible emissions. He is also performing research on hazardous waste disposal for the EPA, analytical methods for ocean dumping dredged material site surveys, residential wood combustion health effects and regulating options. He also acts as a consultant to Research Triangle Institute and Corning Electronics. In his spare time he is a music critic/reviewer for the *Raleigh News and Observer* and is treasurer of the Carolina Chapter of the Society for Technical Communication.

1968

Dr. Norman Hester, BS '68, MS '71, is technical director at Truesdail Laboratories in Tustin, CA.

Jim Lazartic, BS '68, is employed as a chief chemist/plant manager at Certron Corporation of Anaheim. Certron manufactures and distributes audio tapes, computer tapes, floppy disks and high speed printer ribbons.

Raymond E. Ouellette, BS '68, works as a staff environmental specialist with Shell California Production, Inc. His area of interest is hazardous waste management and waste water treatment for the exploration and production segment of the oil industry.

Dr. James R. Scott, BS '68, is a staff dentist for a clinic in the San Joaquin Valley serving Spanish-speaking migrant farm workers.

1969

Burton "Ron" Rawding, BS '69, is a technical representative and salesman for Pilot Chemical Company in Sante Fe Springs, CA.

Dr. Edward Steffen, MS '69, is research and technical director of the Dried Fruit and Tree Nut Association of California and also assistant secretary of this organization. His work involves methyl bromide treatment

studies, sulfur dioxide application, and aflatoxin investigations.

Gary W. Valentine, MS '69, was recently promoted from Senior Staff Engineer to Marketing Manager of Microwave and Signal Processing Technology for Radar Systems. Gary is a member of the Chemistry Department's Advisory Council, representing his employer, Hughes Aircraft.

1970

David Corder, BS '70, is currently employed by Union Oil Chemicals Division as a laboratory supervisor.

Phil Cowan, BS '70, is promoting a "build-it-yourself" automobile called the Kelmark GT. Phil has built several cars and now maintains a service facility for hand-built cars. Since 1980 he has been a director of the Association of Handcrafted Automobiles, an organization devoted to the hobby.

1971

Walter Grove, BS '71, lives in New Castle, VT, and is a manager of a farm.

Michael R. Hoover, BS '71, has been a criminalist with the Long Beach Police Department for the past 5 1/2 years. He and Mrs. Hoover have three daughters. The most recent was born February 9, 1984.

William Hulbrock, BS '71, works for Beckman Instruments in the Engineering Division.

James Merrill, BS '71, works as a quality control chemist at Nutrilite Products in Buena Park, CA.

Dr. Joseph Oberlander, MS '71, and Mrs. Oberlander report the birth of a son on March 21, 1984.

Alan Rosenstein, MS '71, is now with the psychobiology department at UC Irvine and is involved with research on dopamine receptors in the brain. He plans to pursue a PhD in comparative religion/mythology.

1972

Joe Bramblett, MS '72, has begun affiliation with West Coast Analytical Service, Inc., where he is laboratory manager. The laboratory is located in Santa Fe Springs.

Dr. Frank Burns, BS '72, still works at Sandia Laboratories in Albuquerque, NM.

Frank's major effort this past year has been the design and construction of a new home "up in the mountains."

Stanley Davis, BS '72, is proprietor of the Elementics Company, Sierra Madre, CA.

Larry R. Herold, BS '72, MS '82, received his MBA from CSULB in May, 1984. Larry began an accountant traineeship recently with Union Oil of California. Many of you will remember Larry as an employee in our department, serving in the issue room for about ten years.

Richard Jacobs, MS '72, is currently General Manager of Cadeo Dental Products, a small dental materials manufacturing firm in Los Angeles. He is also a consulting polymer engineer in the manufacturing and sales of auto body and rubber bumper repair kits and materials.

Dr. Joseph Reeve, Jr., MS '72, continues as Adjunct Assistant Professor in the School of Medicine at UCLA. "I develop new techniques for the microisolation and characterization of peptides. We have isolated and characterized over 50 peptides from rat, canine, and human gut, brain, and tumor tissues. I recently received three NIH grants, one to study the role of neurotensin and CCK in acid secretion, and one to investigate new biologically active peptides from the gut. I am an investigator in the Center for Ulcer Research and Education."

1973

Dr. Robert J. Rona, MS '73, has joined Sedlow, Inc., in Garden Grove, as a research specialist.

1974

Pete Ladjimi, Jr., BS '74, MS '76, works as a chemist at an oil refinery laboratory in Southern California.

Dr. Francisco M. Llort, BS '74, left FMC Corporation where he was employed for the last four years and has taken a position as Senior Polymer Chemist at the Acushnet Rubber Company, where he does research on elastomers and thermoplastics. Frank lives in New Bedford, MA.

Dr. Richard V. Whiteley, Jr., BS '74, recently left Sandia National Laboratories in Albuquerque, NM, for a position in the Electrical Power Systems Department at Lockheed Missiles and Space Co. "I am a research specialist, responsible for materials analysis on many of the battery tests. I am attempting to build a small, independent analytical chemistry laboratory for the department."

1975

Prabha Bhalla, MS '75, is employed full time as a mother and housewife. Her daughter, Kiran, is now three years old.

Chester Callaway, BA '75, was awarded United States Patent 4,385,192 in collaboration with Dr. Lester Friedman. The patent title is: Process for Manufacturing 1,2-Dibromo-3-chloropropane. This compound is a citrus nematocide.

Donald C. Crider, BA '75, works as a refinery superintendent in Fullerton, CA.

Peter Harney, BA '75, received his MS degree in biochemistry from the University of Hawaii last year. He and his wife, Lt. Jennifer Harney, USAF, are presently living in Bedford, MA.

Dr. John Landrum, '75, MS '78, is Assistant Professor of Chemistry at Florida International University in Miami. His wife, Eileen, whose degrees are from CSULB Department of Microbiology (MS, BS), is supervisor of Dry Powder and Liquid Reagent Production at Coulter Diagnostics. Their son, James David, was born November 10, 1983.

Robin (Bruns) Sorensen, BA '75, is currently working as a volunteer firefighter--no chemical jobs available in Boise, ID. Prior to moving to Boise, Robin spent 3 1/2 years in the pharmaceutical industry in California.

1976

Dr. Christos Angeletakis, BS '76, MS '78, is employed by Sybron Corporation in research and development in the area of advanced dental materials. Plastic tooth-colored materials are being developed that will replace metals used in the mouth.

Dr. Neal Dixon, BA '76, is a resident in surgery at the County-USC Hospital in Los Angeles.

Dr. Scott D. Greer, MS '76, is midway through his gastroenterology fellowship at the Scripps Institute in La Jolla. "John W. is one year old and tireless, and mom (my wife Sue) can barely keep up. I miss the comradery and departmental softball games with **Dave Kanne**, **Chris Pritosos** and crew terribly!"

Michael M. Nishina, BS '76, is employed in the Semiconductor Products Division of Rockwell International in Newport Beach, CA. He and Mrs. Nishina are parents of a son, Brett Matthew, born February 1, 1983.



A group of CSULB chemistry alumni employed at the Diagnostic Systems Group of Beckman Instruments, Inc., Brea, CA. Left to right: Linda Cunningham, MS '77; Nik Jones, MS '79; Bret Seaton, MS '84; Donna Novak Chapman, BS Microbiology (Chemistry Minor) '82; Dr. Steve Jones, MS '79; Betty Yeager, MS '79.

Dr. Robert Pedersen, MS '76, received a research award in the amount of \$800,000 for career development from the National Institutes of Health. He recently accepted a position on the biochemistry faculty in the medical school at the State University, Buffalo, NY.

1977

Tom Augimeri, MS student '77, after a successful career as a CPA, will enter the PhD program in experimental psychology at the University of Michigan.

Danute (Dana) Basiulis, MS '77, is Head, Composites and Structures Section, Materials Science Department in the Technology Support Division of Hughes Aircraft. Dana was honored at commencement ceremonies this year as the Outstanding Alumnus of the School of Natural Sciences for 1984. A story on this award appears elsewhere in the Newsletter.

Dr. Kenneth Bell, BS '77, works as a research chemist for Monsanto in St. Louis, MO.

Robert Blair, BA '77, MS '80, works with BioResearch, Inc., in Sorrento Valley. His work is mainly focussed on the synthesis and

testing of new monomers/polymers for use as tissue adhesives.

Kenneth Brown, BA '77, received a BS degree in chemical engineering from the University of Toledo in 1982.

Linda Cuningham, MS '77, works in the Long Range Research Department at Beckman Instruments, Inc., on immunochemical assays and spends much of her free time as the Vice President/Social Activities for a Catholic Alumni Association.

Gregory Dorsman, BA '77, MS '84, Senior Staff Scientist at Sybron Corporation, has been promoted to Manager of Quality Control. Sybron is located in Tustin, CA.

Bruce Fellows, MS '77, a PhD candidate at UCLA, received a special teaching award for demonstrated excellence as a teaching assistant during the 1982-83 academic year. Congratulations, Bruce!

Raymond A. Johnson, BA '77, is a stockbroker with Merrill Lynch in downtown Long Beach. "My analytical training has helped me as a stockbroker to get to the meat of our research information on companies in order to make recommendations." He recommends IRAs as the best route to retirement planning.

Dr. David Kanne, MS '77, is involved in a research program in agricultural chemistry at Stauffer Chemicals in the San Francisco Bay area.

William A. Lane, BA '77, was recently named sales representative for Sargent-Welch Scientific Company in Anaheim, CA.

Diane Manchester, BS '77, and her husband, Bruce, have a 2 1/2 year old daughter, Monica. The Manchesters are living in Junction City, OR.

Kitty (Taylor) McNey, BS '77, is currently employed at Allergan Pharmaceuticals in Irvine as an Information Specialist. "I will complete the requirements for a second bachelor's degree in business administration at CSULB this year." Kitty and her husband, John, live in Chino, CA.

David R. Oliver, BS '77, MS '79, has been teaching chemistry, physics and mathematics at Oxnard College since the fall of 1979. He and his wife, Karen, have a two-year old, Michael. "I received a grant last year from the Fund for Instructional Improvement to develop a series of computer-aided instruction programs in physics."

Rex Thornhill, BA '77, formerly employed at Texas Instruments in Houston, TX, has been accepted to Podiatry School in Des Moines, IA, and San Francisco. At this writing a choice of schools had not been made.

1978

Dr. Luis Lomeli, BA '78, received his MD from UCLA, not USC as noted in last year's *Newsletter*. Luis is practicing family medicine at Scenic General Hospital in Modesto, CA.

Dr. Marianne Marsi, BS '78, after having spent a postdoctoral year at Brandeis University with Dr. Myron Rosenblum, is working as a research chemist in the Polymer Division at the Central Research Laboratories of DuPont in Wilmington, DE. Her husband, Dr. Lewis Manning, is also a research chemist in the same division.

John H. Schweitzer, BS '78, is currently in his last year of study, working toward an MS degree in petroleum engineering at USC. He and his wife, Nancy, have two children: Andrew, 2-years; and Katherine, 1-month. He is employed as a petroleum engineer at THUMS Long Beach Company (the offshore islands in the Long Beach Harbor). His duties include corrosion control, water quality maintenance for reinjection into the reservoir, scale inhibition studies and enhanced oil recovery studies (steam stimulation and alkaline flooding).

Randall E. Smith, BA '78, is a materials and processes engineer with Hughes Aircraft

in Fullerton, CA. His work deals with vapor phase soldering and adhesive bonding.

Susan Smith, BA '78, is a member of the technical staff in the organic chemistry section of the Technical Support Division of Hughes Aircraft in El Segundo, CA.

Gerald Wuenschell, BS '78, will finish his thesis work on synthetic hemoglobin models this summer and hopes to avoid Olympian traffic jams by staying home and writing his thesis.

1979

Dr. Jeffrey Hagenah, BS '79, received his PhD in organic chemistry under the direction of Dr. Michael Jung at UCLA in January 1984. Jeff is working for Chevron Chemical Company, Ortho Agricultural Division, in Richmond, CA, as a research chemist.

Dr. Stephen F. Jones, MS '79, is employed in the General Chemistry Development Department with Beckman Instruments, Inc., in Brea, CA. Steve works with new clinical analyzers and the development of clinical assays. Steve enjoys gardening and golf on the weekends.

Gary LaRowe, BA '79, works as a quality control chemist at Genentech, Inc., in South San Francisco. He is studying for an MBA at California State University, Hayward. The LaRowe's first child, Ryan, arrived October 29, 1983.

Robert Maiden, MS '79, is employed with Avery International in Pasadena, CA. He is also associated with **Joe Bramblett**, MS '72, and Dr. Jack Northington at West Coast Analytical Service, Inc., in glass fabrication work.

Patrick McKay, MS '79, says "I'm still at Genentech, having enjoyed 3 1/2 years of the most challenging science imaginable. I continue to work on interferon, and have picked up another project that promises to keep me very busy."

Dr. Fred McKibben, MS '79, received his MD degree from the USC School of Medicine in June, 1984. Fred will intern at the County-USC Hospital in anesthesiology. Fred's wife, Diane, is a third-year medical student at USC.

Dr. John S. Nelson, MS '79, is an attorney with Hagenbaugh and Murphy, and specializes in personal injury litigation with increasing emphasis on cases involving exposure to pesticides, formaldehyde and other toxic products, by-products and wastes.

Sue Schoij, BS '79, after working several years in New Jersey, has started a job as a petroleum engineer with the City of Long Beach.

Dr. David Tang, student '79, received his DDS degree from UCLA in 1982.

Dr. Wai Man Ip, MS '79, is a research scientist with Global Geochemistry Corporation.

Dr. Curtis Winters, BS '79, has been accepted into the PhD program in biochemistry at Caltech. Curtis received his MD degree in 1983 from USC School of Medicine and has been in a residency at the County-USC Hospital since that time.

Dan H. Woo, MS '79, says, "The Woo tradition is being carried on at CSULB in the Chemistry Department. First there was my sister, **Martha** (MS '78), then myself (MS '79), and now my brother **Van** is an MS student in Chemistry at CSULB." *Editor's Note*: I believe this record is equalled by the **Dillons, John, Tom and Don**, who were all undergraduate chemistry majors in our department during the last decade.

Betty Yeager, MS '79, is employed by Beckman Instruments, Inc., doing nephelometric drug assays and radio-immunoanalyses for Beckman's Immunochemistry R&D Department.

1980

Gregory Downs, BA '80, is completing his third year of medical school at the Medical College of Wisconsin. He plans to do residency in anesthesiology or surgery.

Brian DuBow, BS '80, continues with the Convair Division of General Dynamics in San Diego.

Alan A. Galuska, BS '80, MS '83, is finishing his PhD in analytical chemistry at Cornell University. On completion of the PhD he will return to California to start a position involving the analysis of electronic device materials.

Nikola K. Jones, MS '80, is employed with Beckman Instruments in the General Chemistry Development Department, working with new clinical analyzers and developing assays. Nik gardens and golfs in his spare time.

Robert E. Klenck, BA '80, is currently a second year student at USC School of Medicine. His wife, Sue, is enjoying her job at IBM.

K. Scott Marsi, BA '80, after receiving his MS in analytical chemistry at San Diego State University, accepted a position with GAF Corporation as a technical representative and salesman.

Miguel Mojica, BA '80, is a pilot with the Strategic Air Command and is stationed in Omaha, NE.

Dr. Joseph Mario Molina, BA '80, received his MD degree from the USC School of Medicine in June of this year. He will carry out his residency in internal medicine at Johns Hopkins University in Baltimore, MD. In 1983 Mario was the recipient of a \$2,000 scholarship from the Lakewood Foundation to continue his medical studies.

Charlene G. Taylor, BA '80, formerly working in the pharmacy at Kaiser Hospital, has begun a physician's assistant program at USC.

William Wuhrman, MS '80, formerly employed at Hughes Aircraft in El Segundo, has accepted employment with Hewlett Packard in the Chemical Instrumentation Division.

1981

Cathy Baker, BA '81, is employed at Detergents, Inc., and plans to marry in October, 1984.

James Denman, BS '81, is a member of the technical staff in the organic chemistry section of the Technical Support Division of Hughes Aircraft in El Segundo. His work is in the area of space adhesives and optical bonding.

Kathryn E. Dennis, BS '81, continues as a research assistant at California Institute of Technology.

Marianne Denny, BA '81, finds medical school a lot of fun. She especially enjoys obstetrics and has participated in twenty deliveries. She will be doing residency in obstetrics/gynecology. Daughter Stephanie is now going on three years old.

Dr. Timothy Erwin, BA '81, completed his PharmD degree at USC this summer. His wife, Kim, gave birth to their first child, Jonathan David, last October. During this final year of pharmacy school he worked as a pharmacy intern at Long Beach Memorial Hospital.

Tom Harmon, BA '81, completed his MS in Chemistry at USC and will begin his second year of medical school at the University of Pittsburgh this fall. He says, "I hope to see more Californians in next year's freshman class at Pitt."

Rebecca S. (Rabano) Lally, BA '81, was married to Patrick Lally and is employed at McDonnell Douglas.

An P. Le, BA '81, employed in the Wilmington Laboratory of the City of Los Angeles Department of Water and Power, passed away in July, 1983. An is survived by his brother, **Loc Le (Leon Levan)**, BA '81, MS '83.

Leon Levan, BA '81, MS '83, is now employed with Rockwell International.

Jack Long, BA '81, was married to Emily Cartwright on August 6, 1983. Jack and Emily now live in Cincinnati, OH, where Jack will begin his second year of medical school at the University of Cincinnati.

Dr. Laurence Duke Montgomery, BA '81, graduated from the UCLA School of Dentistry in June, 1984.

Jonathon A. Muniga, BS '81, is employed at the San Onofre Nuclear Generating Station near Oceanside, CA.

Dr. Paul Manos, BA '81, graduated from the UCLA School of Dentistry in June and plans to establish a dental practice in Orange County.

Michael Nussbaum, BA '81, is a medical student at the Texas Technical University School of Medicine.

Erika Schneider, BS '81, is pursuing a PhD in physical chemistry at UC Berkeley and is enjoying her studies.

Douglas Schoon, BA '81, received his MS in Chemistry at UC Irvine earlier this year. Doug did a research project with Dr. Harold Moore.

Sorarith Thuy-Boun, BS '81, MS '83, is employed as a research chemist with VLI Company in Irvine, CA.

Dr. Dean Ueda, BA '81, works as a pharmacist at UCLA.

1982

Scott Barker, BA '82, was erroneously reported in the last *Newsletter* as working at Beckman Instruments. Scott is a salesman in the Instruments Division of IBM. The editor apologizes.

Kerwin Bennett, MS student '82, is presently enrolled in the School of Law at Gonzaga University in Spokane, WA, where he will begin his third year this fall. He is associated with the firm of Hannon, Howard, Eisele & Lempestis. Kerwin will be remembered as a stockroom clerk and Director of Laboratories in our department by chemistry students who attended classes during the period 1974-1982.

Gary Clevenger, BA '82, MS '83, and his wife Michelle are parents of a daughter, Elizabeth Lynn, born on February 5, 1984. Gary is a student in the PhD program at UCLA, working with Dr. Michael Jung.

Mario Fernandez, MS '82, is starting his third year of graduate work at UC Irvine

under the supervision of Dr. Harold W. Moore and is preparing his oral examination for advancement to candidacy for the PhD. He is continuing work on the synthesis of quinones, natural products and beta-lactams. Last year Mario was honored with a UC Regents Scholarship.

Karen Koe, student '82, is presently a student in the USC School of Pharmacy.

Annie N. Luu, BS '82, received her MS degree in biochemistry at UC Riverside in 1983. During the 1983-84 academic year she served as a part-time chemistry instructor at her *alma mater*, CSULB. She recently became employed as a manager of a technical personnel employment agency.

Carl Martin, BA '82, works as a research and development chemist at Allergan Pharmaceuticals in Irvine, CA.

Mark S. Martinez, BS '82, lives in Paso Robles, CA, and is in the process of constructing his own home. "I have continued my study of the chemistry of winemaking, and of the methods of chemical analysis that can be employed in winemaking."

Glenn Morinishi, BA '82, is presently a medical student at USC School of Medicine.

Gary A. Plett, BS '82, after receiving his MS in chemistry at UC Riverside, joined the Truesdial Laboratories in Tustin.

Chris Presutti, BA '82, is employed at Hughes Aircraft in the Electro-optical Data Systems Group, El Segundo, as a process engineer.

William Shoemaker, BS '82, will start his third year of medical school at UC San Francisco. He began his clinical clerkships this past summer.

Diana C. (Waldman) Talpos, BA '82, is presently attending UC Irvine California College of Medicine, and "after making it through the Chemistry Department at CSULB, I'm finding med school much easier than expected. I really learned how to study at CSULB. Thanks!"

Elizabeth Woods, BS '82, and her husband announce the arrival of a daughter, Emilee Jeanette, May 16, 1983. Elizabeth will be entering Baylor University School of Medicine in the fall of this year.

1983

Robert Bruton, BA '83, is a chemist with Refiners Marketing (British Petroleum) located in the Los Angeles harbor area. They have just completed building a new laboratory, and Bob will be using a computerized IR in his work.

Bradley G. Davis, BA '83, is attending the College of Osteopathic Medicine of the Pacific and will complete his DO degree in 1987.

Donald Dillon, student '83, is a first-year dental student at the USC School of Dentistry.

Richard C. Kanner MS '83, is in the PhD program in Chemistry at UCLA working on a project in photo-organic chemistry with Dr. Christopher Foote.

Dexter Morris, student '83, is presently in his first year of optometry at UC Berkeley.

Stefan Isak, BS '83, is now a graduate student in the PhD program at the University of Utah.

Patrick Hoang Nguyen, MS '83, has accepted a position at VLI Company in Irvine, CA.

Stephen Pentoney, Jr., BS '83, and his wife, Terry, were married last December and are living in Riverside, where Steve will be in his second year as a PhD student in analytical chemistry at UC Riverside. "I will be doing some supercritical extractions of coal and learning a lot about FT-IR."

Armando Samaniego, BA '83, begins his second year as a medical student at Harvard University. Armando received a \$1,000 scholarship in 1983 from the Lakewood Foundation.

1984

Yucel Burdurlu, student '84, has accepted a position with Ameritone Paint Corporation while completing her thesis for the MS in chemistry.

Robert Proffitt, student '84, was married February 4, 1984, to Patricia Melanson, RN, who is presently in the nursing BS program

at CSULB. Bob works as a programmer at TRW and is a part-time graduate student in biochemistry at CSULB.

Mehdi Rashidi, BA '84, will be attending UC Santa Barbara, working toward a PhD in chemical engineering. Mehdi was the recipient of the American Institute of Chemical Engineers Western Regional Student Symposium Award at USC.

Bret Seaton, MS '84, is employed in the General Chemistry Development Department at Beckman Instruments, Inc., and works on clinical analyzers and associated assays. During his free time he enjoys writing.

Anne L. Tolles, MS '84, presented a paper entitled, "An enzyme-linked immunosorbent assay for anti-histone antibodies in human sera: comparison with an immunofluorescence assay," to the Clinical Ligand Assay Society meeting in Chicago, IL, earlier this year.

A Picture from the Past: Can you identify these professors? To check your answers, see the caption below the photograph.



Left to right: Dr. Darwin Mayfield, Professor of Chemistry; Dr. Robert Henderson, Professor of Chemistry, deceased; Dr. Donald Simonsen, Professor of Chemistry and Acting President of the University, 1969-1970, now retired; Dr. Hiden Cox, Professor of Biology; Dr. Cramer Schultz, Professor of Physics; Dr. Charles Roberts, Professor of Physics; Dr. George Appleton, Professor of Physics; Dr. Walter Arnell, Professor of Mechanical Engineering, no longer with the University; Dr. Carl McIntosh, Professor of Speech and President of the University, 1959-1970, now retired. The occasion was the festive dedication of the Wheatstone Bridge, spanning Boutan Creek, which separates upper and lower campus. Wheatstone Bridge is located northeast of the dormitories. The VW bus is vintage 1957 and belonged to Dr. Simonsen. The date was September 18, 1968. Do you remember what you were doing on that eventful day?