Biological Sciences
Department Re-estabishes
Clinical Laboratory
Scientist Training Program

First Class of Students Starts Fall 2002

It is an exciting time for the Department of Biological Sciences and its current and prospective students. As the result of encouragement and support from the Northern California Hospital Council and the huge demand for Clinical Laboratory Scientists (CLS), the Department has re-instituted its CLS Training Program. The previous training program, while highly regarded, was a casualty of the severe economic recession of the early nineties. Both faculty and alumni are thrilled that San José State University will once again train CLSs beginning this Fall.

The Need

Despite rising unemployment, hospitals around the country are experiencing critical workforce shortages in their clinical laboratories. The growing shortage of licensed Clinical Laboratory Scientists is of great concern because, in California, only CLSs currently are allowed to perform the laboratory tests doctors use in their diagnosis. In partnership with the Northern California Hospital Council, the Department of Biological Science is working to combat this shortage. The shortage in laboratory professionals came into being because of a convergence of economic forces. In the late 80’s and early 90’s, many hospitals decreased their staff and closed their CLS training programs to cope with the economic impact of managed care. College counselors encouraged students interested in science to pursue careers in information technology, a booming industry where jobs were plentiful. Also, in an effort to cut costs, many colleges stopped offering courses (such as Hematology and Medical Microbiology) required for entry into CLS training programs. As a result, many students did not prepare for careers in the laboratory and applications to the few remaining training programs decreased.

The situation has changed dramatically. Today, healthcare is the third fastest growing industry in the nation. The demand for laboratory testing is predicted to grow as the population ages and new molecular diagnostic techniques come into common use. CLSs produce the test results critically important for two-thirds of all medical decisions and yet increasingly, these professionals will be in short supply. In addition, the biotech and pharmaceutical industries are competing with hospitals and reference laboratories for these highly skilled workers.

(continued on page 2)
partnered with the local Hospital Council to provide costly but critically needed training for future Clinical Laboratory Science technicians, as well as the development of a unique and exciting master’s degree in biotechnology to provide our students with both science and business skills necessary to effectively manage the ever growing biotechnology industrial community.

It is not an exaggeration to say that the “hands-on, learner-centered” education we provide our students is unequaled in both quality and cost compared to any other institution of higher education in this region. But faced with continuous erosion in the level of State funding for our programs, we have become increasingly dependent on external funding to maintain the quality level in which we can take pride. Despite significantly large teaching assignments, last year CoS faculty were awarded over $6M in research grants from outside funding agencies, which equates to over 35 percent of our allocation of State funds. This kind of funding is directly linked to the professional success of both our students and faculty. Additionally the College received about $1M in gifts from our alumni and friends – funds that are used to provide scholarships for our students and to enhance classroom facilities and instruction. In other words, tax dollars only provide the bare essentials for the operation of our programs. It is the talent and hard work of our faculty and the generosity of our alumni and friends that allow the College of Science to maintain its academic excellence. Thank you all for your contributions to this success.◆

“...and the generosity of our alumni and friends that allow the College of Science to maintain its academic excellence.”

The demographics of the current laboratory workforce ensure that the current crisis is a mere taste of what is to come. In the next six to ten years in California alone, 10,000 CLSs are expected to retire. Currently, fewer than 40 CLS students are trained in California each year. The San José State University CLS training program (operating at full capacity) will nearly double the number of CLS students trained each year in California.

SJSU CLS trainees will enroll in 12 months of post-baccalaureate work. After the successful completion of practical and lecture courses, students will be eligible to take the California CLS licensing exam. Individuals with a bachelor’s degree and the required prerequisite courses are encouraged to apply. For details about the prerequisites or for a program application write to cls@science.sjsu.edu. Applications are due six to eight months before the September and March start dates.◆

By Mara Williams

Connecting with Alumni: Clinical Laboratory Sciences Program

The Department of Biological Sciences would like to reconnect with the alumni of its Clinical Laboratory Sciences (Medical Technology) Program. Please let us know where you are, what you are doing, and if you would like us to do a brief profile on you that we can publish on our website (www.sjsu.edu/depts/Biology). We hope the profiles will update and bring together those who have lost touch with one another. Please use the form on the back page of this newsletter to send your information to us and to request any additional information.

We also need a volunteer alumnus to serve on the Advisory Committee for the new Clinical Laboratory Sciences Program. Please let us know if you would like to volunteer for the Advisory Committee or for other activities in support of the program. To provide contact information, to volunteer to serve on the Advisory Committee, or to support the program or its students in other ways, please email Sally Verege, Chair, Biological Science Department at sveregge@email.sjsu.edu or use the form in this newsletter.

Klitia (Kit) Vanags, CLS Alum Remembers SJSU

Klitia L. Vanags was born in Riga, Latvia. She attended grade school, secondary school and the university in Riga before World War II. At the university, she studied medical laboratory science. The German army occupied Latvia at the beginning of the war. As the war progressed, the Russian army advanced into Latvia and the Germans retreated. This presented a grave problem to Kit and her parents as they had no love for the German army but had a greater fear of the Russians due to a history of previous Russian occupations of Latvia. One night the Vanags left their home with what they could carry and traveled to Austria where they had friends.

During the war Kit worked in Austria in the medical laboratory of a family friend, often performing tests when bombs were falling nearby. Following the war, she and her family immigrated to the United States and settled in San José with the help of a local church. Kit, who spoke no English, initially worked as a housekeeper. The family who employed her helped her learn English and encouraged her to enroll at San José State University, and, after four years, she earned her bachelor’s degree in Medical Laboratory Science. Kit worked for several hospitals in the San José area before retiring from O’Connor Hospital in 1986. She enjoyed life to the fullest. She loved her adopted country, her family and her profession. We are very thankful that she remembered the Medical (Clinical) Laboratory Sciences Program at San José State University with a generous donation.◆

Thanks to Fred Struve for the biographical information.
Science Discovery Workshop Receives Community Award And Grant

The Hispanic Foundation of Silicon Valley has given an award to the Science Discovery Workshop which has been supported by our CoS Associate Dean George Castro since 1996, and directed by him since 1999. The Hispanic Foundation of Silicon Valley bridges community leadership and resources to foster opportunities for the success of Hispanic children and families. This Community Grant Award in the Education Category was presented at the Hispanic Charity Ball held on September 21, 2002 at the Fairmont Hotel, San José. Accompanying the award is a grant of $10,000. Since 1996, George has supported 20 SJSU Science and Engineering students who served as tutor/mentors to the children (ages 8 and above) who participate in the hands-on science and technology activities of the Workshop. The Science Discovery Workshop was originally located in the old “Metal Shop” building at San José High until the summer of 2002. The group has relocated to a temporary classroom at Horace Mann Elementary, which is temporarily being housed on the campus of Hoover Middle School until their new school building is completed in the late Spring of 2003. Principal Adam Escoto has promised that the Workshop will relocate to a double classroom in the new building.

“Bridge to Employment” Program Enhances Science Education Experience For Local High School Students

On March 6, 2002, Johnson and Johnson hosted a partnership dinner to kick off a new Bridge to Employment Program between LifeScan, Inc., Milpitas High School and the Santa Clara County Biotechnology Education Partnership (SCCBEP). Bridge to Employment is a three-year collaboration designed to expand the professional development and internship opportunities for 9-12 science faculty, to broaden high school students’ exposure to health care and biotechnology careers, to increase the technical abilities of high school students through hands-on biotechnology laboratory activities and to enhance the science education experience of high school students through community events and internships. Speakers for the evening included Dr. Sharbel E. Noujaim, Vice President of Research and Development at LifeScan, Inc., Dr. Marlin Foxworth, Superintendent, Milpitas Unified School District, Michael Bzdak, Director of Corporate Contributions, Johnson & Johnson, Alfred Mays, Vice President of Corporate Contributions, Johnson & Johnson, and Dr. Katy Korsmeyer, Program Coordinator, Santa Clara County Biotechnology Education Partnership. The highlight of the evening was the presentation of a check for the first year of the program to Dr. Elaine D. Collins (Assistant Professor Chemistry), Executive Director of SCCBEP by Alfred Mays from Johnson & Johnson.

Dr. Elaine D. Collins, SJSU Assistant Professor of Chemistry and SCCBEP Executive Director, receives a check for $42,500 from Alfred Mays of Johnson and Johnson for the first year of the new “Bridge to Employment” Program.

New Biotechnology Master’s Program Accepting Motivated Students

Beginning in January 2003, an innovative master’s in biotechnology (MBT) program will be offered at SJSU. This program will integrate advanced, hands-on technical training in core biotechnology skills with MBA-level course work. The MBT program will graduate professionals, i.e., individuals who have an expressed desire to pursue careers in the biotechnology sector, with an MS in (continued on page 4)
Biological Sciences, Concentration in Biotechnology. Program graduates will be able to fill a wide-open niche in the corporate biotechnology environment with training in both science and business practices. The program is accepting applications from highly-qualified students with a strong background in cellular/molecular biological sciences. Concurrently, a proposal is being forwarded to the CSU Board of Trustees to establish this new degree to be known as a Masters of Science in Biotechnology.

The impetus for the MBT program came from Professors Chris Brinegar, William Murray, and Sally Veregge (Chair) of the Department of Biological Sciences. They skillfully crafted a curriculum proposal that was readily adopted and funded by the Alfred P. Sloan Foundation. The Sloan Foundation is promoting a novel initiative in post-graduate education they have called the “Professional Science Master’s Degree” program. The Biology faculty proposed merging graduate level training in Molecular Biology, Immunology, and Bioinformatics with courses on the fundamentals of business offered by the off-campus MBA program. Associate Dean S. Lee Jerrell from the College of Business provided guidance on relevant course offerings and encouragement for the program. Canvassing selected biotech companies revealed an unrecognized need for science graduates with a “commercial” approach toward their science. College of Science funds matching the Sloan Foundation grant have been allocated by Dean Selter for the development and launch of this program; the MBT will be offered as a self-supporting program through Special Sessions.

Catalysis, the process of increasing the reactivity between two normally un-reactive components (or maybe more specific to this case, an enzymatic reaction), might be the appropriate metaphor for this new program in the College of Science. The enzymatic step in the educational process will occur in the seminar series Biology 202T. Dr. Dave Bieber, the program director, will guide the students in a course of study that considers technical, bioethical, and commercial ramifications of current topics relevant to the biotechnology industry. These will be presented as case studies by selected leaders and role models from the numerous and diverse biotech companies in the Bay Area. This seminar series, plus a summer internship, should provide a real-life exposure to the industry that will give the MBT graduate a huge competitive advantage in what is being touted as the “next wave” in Silicon Valley. For more information go to: www.science.sjsu.edu and www.science.masters.com.

By Dave Bieber
CONGRATULATIONS

To the Graduates of the College of Science

August 2001, December 2001 and May 2002

Mazar Abdi

Param Adhikari

Raj Abigun

Lori Agrawal

Auora An Ahsan

Mohammed A Ali

Aeal Aman

Lourdes Francisco Amick

Eric Robert Anderson

Michael Shreve Anditer

Ryan Andrews

Fatima Ali Anwar

Jennifer M R Aparisi

Misa Arasaki

Laura Azmi Asad

Rushi A Sather

David Ayung

Lee Michael Averett

Henry Villarin Ayawan

Travis James Baggett

Khalil B Dahi

Suha Andrews Bahu

Ductian Michael Bang

David F Barnes

Sandra Eileen Baron

Autumn C Cardone

Annmarie K Calarrudo

Melissa Butler

Thierry Van Bui

Eileen Marie Brennan

Rebecca Wendie Bowen

Eileen Marie Brennan

Ivan W Brix

Gabriel Wolfcott Briscoe

Christine Keiko Brown

Daniel Paul Bruno

Jill Y Buenasusca

Jeslyn Q Bruñ A

Jimmy T Bui

Linda Ngo Bui

Thierry Van Bui

Rachel M Burnsed

Melissa Butler

Zhe Cai

Annmarie K Cumaranaratne

Gutta

Autumn C Cundine

Archibald Ostaco Celi

Haroon N Ghalib

Sneevdi Chalasani

Brandon T Chan

Chin Wan Chan

John Edward Chan

Raymond Hong Chan

Subha Bhanthi Chandar

Lillian Yu Chang

Ray Lei Chang

An-Vi Chanthey

Yan Ping Chao

William Chau

Matthew Franklin

Chesean

Hsin-Feng Chen

Po Jung Chen

Qianwei L Chen

Po Jung Chen

Hsin-Feng Chen

Matthew Franklin

Chesean

Hsin-Feng Chen

Po Jung Chen

Qianwei L Chen

Rong J Chen

Cindy Zh Chen

Chen Yang

Andy Yang Wu

San San Wong

James Kwok Wong

Daniel Wun Wong

Guy Wang

Guy Weng

William Chau

Matthew Franklin

Chesean

Hsin-Feng Chen

Po Jung Chen

Qianwei L Chen

Rong J Chen

Cindy Zh Chen

Chen Yang

Andy Yang Wu

San San Wong

James Kwok Wong

Daniel Wun Wong

Guy Wang

Guy Weng


NEW FACULTY

DARYL EGGERS
Assistant Professor, Chemistry

Dr. Eggers received his PhD (1997) from UCSF in Pharmacology, and his BS (1981) from Rose-Hulman Institute of Technology and an MS (1987) from UC Berkeley in Chemical Engineering. He received an Award of Excellence from UCLA in Chemistry and Biochemistry Advances in Research Forum while doing his post doc work. His research interest is in the effects of crowding and water structure on protein folding.

MARK STAMP
Assistant Professor, Computer Science

Dr. Stamp received his PhD (1992) and MS (1988) in Mathematics from Texas Tech University, Lubbock, Texas. His BS (1992) was in Computer Science and History from Morningside College. He has had both academic and industry experience in many areas including information theory and cryptography, graph theory and combinatorics, applied statistics, software development, computer networks, routing and security, numerical analysis, and simulation.

DAVID TAYLOR
Assistant Professor, Computer Science

Dr. Taylor completed his PhD (2000) at UCLA in Computer Science, Theoretical Computer Science, Networks and Artificial Intelligence. He received his BS (1991) from MIT in Computer Science and Engineering, and his MS (1996) from UCLA in Computer Science. His research interests include external memory computation, design and analysis of online and approximation algorithms and query processing in database systems. He did post doc work at ETH Zurich Research Institute of Theoretical Computer Science.

CHRIS TSENG
Professor, Computer Science

Dr. Tseng received his PhD (1988) in Electrical and Computer Engineering and MS (1985) in Math from the University of Illinois, Urbana-Champaign. He received his BS (1982) in Electrical Engineering from National Taiwan University. He has had many years of teaching and academic experience in software engineering, server web programming, data structure, algorithm, languages and computation, and Artificial Intelligence, as well as industry experience as a consultant and project manager. His recent research included web intelligence, web-based collaboration, soft computing, genetic algorithm and bioinformatics.

TRISHA BERGTHOLD
Assistant Professor, Mathematics

Dr. Bergthold received her PhD in Math in 1999 from University of Oklahoma, a BS (1987) in Math from University of Santa Clara, and MS (1989) from University of Illinois, Urbana-Champaign. Her thesis was on “Patterns of Analytical Thinking and Knowledge Use in Students’ Early Understanding for the Limit Concept.” She will be teaching coursework primarily in Math Education and designing courses for prospective teachers.

FERDINAND RIVERA
Assistant Professor, Mathematics

Dr. Rivera received his PhD in 1998 in Math Education Theory and Practice from Ohio State University, a BS (1985) in Math Education from University of Santo Tomas and a MA (1992) in Math from University of Philippines. His thesis was on “Postmodern Analysis of Teaching Mathematics in the Urban Setting.” He completed post doc research at the Center for Development Research, University of Bonn, Germany. Besides teaching, he will provide leadership in the area of Math Education.

EUGENE CORDERO
Assistant Professor, Meteorology

Dr. Cordero received his PhD in Atmospheric Science from UC Davis in 1995, a BS (1988) and MS (1991) in Physics from CSU Northridge. His thesis was on “The Effects of Ozone Heating on the Quasi-biennial Oscillation.” His post doc work as a research scientist was at Monash University, Australia. He will be developing cross-disciplinary courses and conducting research related to global pollution and atmospheric transport and chemistry.

NATALIE BATALHA
Assistant Professor, Physics

Dr. Batalha received her PhD in Astronomy & Astrophysics from UC Santa Cruz in 1997, an AB (1989) degree in Physics & Astronomy and a MS (1993) from UC Berkeley. Her thesis covered “Doppler Imaging of Young, Late-Type Stars.” Post doc work included Stellar Activity Studies of...
Professor Herbert Silber Receives Wang Family Excellence Award

Chemistry Professor Herbert B. Silber was selected as one of this year’s five recipients to receive the prestigious 2002 Wang Family Excellence Award in the category of Natural Sciences, Mathematics, and Computer Science and Engineering. Professor Silber was chosen from among a select group of faculty nominations from each CSU campus for his teaching, research, service and minority student education, and he is the first from SJSU. Trustee Stanley T. Wang and his family established the award in 1998 to recognize and celebrate CSU faculty members who, through extraordinary commitment and dedication, have distinguished themselves by exemplary contributions and achievements in academic disciplines and areas of assignment. The one-time award of $20,000 was presented to Dr. Silber at a recognition ceremony and dinner in May at the CSU system office in Long Beach. An internationally recognized expert in his field, Silber has been a teacher and researcher for more than 30 years and SJSU faculty member since 1986. Long active in minority education, Dr. Silber received the Presidential Award for Excellence in Science, Math and Engineering mentoring by the White House in 1998. He launched the university’s federal Minority Access to Research Careers (MARC) program in the biomedical sciences, which has been sustained for 14 years by his continuing efforts. Silber has also received the Camille and Henry Dreyfus Foundation, Inc. Scholar/Fellow Award, which is given to the best researcher/mentors at undergraduate institutions.

Professor Bradley Stone Honored at NASA Ceremony

Professor Bradley Stone was included as part of a NASA research team that was recognized at a recent 2002 NASA Honors Awards ceremony. The Astrochemistry Group, led by Dr. Louis J. Allamandola, was awarded a Group Achievement Award for 2002 and presented in July 2002 at a ceremony at NASA Ames Research Center in Mountain View, CA. A plaque was presented with the inscription:

“For exceptional performance in the laboratory simulation of materials in deep interstellar space, on comets and planets which revolutionized the understanding of chemistry in space.”

Professor Stone began his research collaboration with the Astrochemistry Group in 1995, as a NASA-ASEE-Stanford University Summer Faculty Fellow and has been associated with the Astrochemistry group since that time. He is responsible for building a laser lab for the study of the fluorescence of a family of organic molecules that are thought to be important carbon-containing compounds in the interstellar medium. Dr. Stone has published articles with the group on this subject in the Journal of Chemical Physics in 1999 and 2002. He has also given numerous presentations on this work at local, national and international meetings, most recently at a Faraday Discussions in Nottingham, England.

Professor Michael Beeson Awarded NSF Grant

Professor Michael Beeson was awarded a three-year grant by NSF to support his research in “second-order automated deduction.” Automated deduction is the art and science of getting computers to prove theorems. “Second-order” refers to mechanisms for dealing with sets and functions. Sets and functions are fundamental to mathematics, but they cause problems, both for human students and for computers. He will be solving some of those problems and testing out the techniques on some example theorems.

Professor Jon Pearce Lectures in Sri Lanka

Jon spent the Fall of 2001 as a Fulbright Lecturer in Sri Lanka. He lived in the capital city, Colombo, where he conducted software development workshops at the University of Colombo and at many of the local software companies. He also taught a course at Peradeniya University, near Kandy, the religious capital of Sri Lanka (which is predominantly Buddhist). This was a turbulent time in Sri Lanka. During his stay the government collapsed, there was no electricity at night, the Tamil Tigers blew up the airport, and the local Fulbright office received an envelope of white powder that initially tested positive for anthrax. He learned...
that adversity brings people together in a way that makes fast but ardent friendships. Saying goodbye turned out to be the hardest part. Jon is currently seeking funds that would allow him to continue his workshops.

PHYSICS

Professor Brian Holmes Writes Musical Score

Professor Brian Holmes, has written incidental music (a dozen songs and choruses) for the play Death’s Jest-Book by Thomas Lovell Beddoes (1803-1849). The play will be produced with Brian’s music next year – the 200th anniversary of Beddoes’ birth – at UCLA, with additional productions in New York City and Grasmere, England.

Associate Professor Michael Kaufman Participates in Star Formation Workshop

Michael Kaufman, Associate Professor, traveled to Taiwan where he participated in a workshop on the chemistry of star formation, hosted by the Institute of Astronomy and Astrophysics Academia Sinica in Taipei. Kaufman presented an analysis of his work with Hubble Space Telescope images, which was the result of a collaboration with scientists at NASA Ames Research Center and the University of South Wales.

Assistant Professor Ken Wharton Honored with Special Citation

Ken Wharton, Assistant Professor was honored with the Special Citation (runner up) for the Philip K. Dick Award, which recognized his science fiction novel “Divine Intervention.” This award is given each year to the best paperback published in the US. Says Wharton, “Interestingly, the winner this year, Richard Paul Russo, is an SJSU Grad, and he is now a two-time winner. And the first person to win the award 20 years ago was our own Professor Rudy Rucker from the Math Department.” Wharton is also a finalist for the John W. Campbell Award for best new writer of science fiction or fantasy.

Mathematics/Computer Science Split

Over the summer the Department of Mathematics and Computer Science (MCS) quietly split. The respective “new” departments are located in:

Computer Science Department
MacQuarrie Hall (MH) 208
(408) 924-5060 (new)
Mail Zip 0249
http://www.cs.sjsu.edu/

Mathematics Department
MH 308 (new)
(408) 924-5100
Mail Zip 0103
http://www.math.sjsu.edu/

Professor Roger Alperin chairs the new Math Department and is assisted by new employees Fernanda Karp as the Office Manager and Jessie Martinez as the Administrative Assistant.

Dr. David Hayes continues to chair the Computer Science Department.

Why the split? The department got too big with over 150 faculty and the equivalent of more than 2,000 full time students – larger than some colleges.

Research Center and the University of South Wales.

Assistant Professor Ken Wharton Honored with Special Citation

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IBM Hosts University Day At SJSU

On October 22, and in conjunction with the Colleges of Science, Business and Engineering, personnel from IBM will be conducting seminars and manning information tables in the Barrett Ballroom of the Student Union building. These presentations are aimed at students and faculty who are interested in the cutting-edge technology developed by IBM. Representatives will also be available to discuss job opportunities at “Big Blue.”

Want to know what is happening in the College of Science? Check out the Events calendar at:

www.science.edu/events.htm
The College of Science Introduces the Following 18 New Staff Who Have Joined the Ranks Since July, 2001

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<th>Biology Department</th>
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<td>Stacey Corelis</td>
<td>Bonnie Jackson</td>
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<td>Yue Wang</td>
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<td>Mike Stephens</td>
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<td>Administrative Coordinator/Secretary</td>
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| Computer Science   |                        |                      |
|--------------------|                        |                      |
| Yue Wang           |                        |                      |
| ITC Consultant     |                        |                      |
Thuy Huong Le is majoring in Biochemistry at SJSU following her graduation from Independence High School with a 4.0 GPA. She enjoyed bringing the Vietnamese culture to other students as an active member of her high school Vietnamese Club and plans to continue this at SJSU. In this capacity she wrote stories and poems, directed, acted and sang in the Vietnamese Tet show. She also volunteered at the San José Medical Center, at the Berryessa Public Library, as a teacher’s aide in an elementary school, and as a tutor at her high school. She has wanted to become a pharmacist since the 8th grade.

Han Duong graduated from Andrew Hill High in San José with a 4.0 GPA. During this time, she volunteered in two medical clinics assisting patients and maintaining records, and also participated in the pharmacy clerk program at her high school. In her visits to the elderly in nursing homes she developed a compassion for the plight of the elderly and other persons in need. She is fluent in both English and Vietnamese, studied music theory, played badminton and has been a member of CFS and Interact Club in her high school and the Eucharist Youth Society of the USA in her church community. Han’s goal is to study biology and chemistry and become a pharmacist.

2002-03 Richards Scholars

Mythu Lai worked as a nurse in Vietnam before coming to the US six years ago. She is currently a junior in the Computer Science Department with a 3.5 GPA, after overcoming a language barrier and learning to speak English while attending classes at Evergreen and San José City College. She is a determined young lady who is self-supporting and has had to face some serious health issues. When she graduates, Mythu plans to continue her education with an MA in pursuit of a career in user interface design.

Napoleon Valdez is a junior in the Computer Science & Computer Engineering departments. Napoleon and his family came to the U.S. seven years ago from the Phillipines and settled in Fresno. Because both parents worked, he cared for his younger sister while learning English by reading the dictionary and rehearsing sentences for over two hours each day. In high school, he worked when he could to save money for college. As a college student, he works almost full time to pay his expenses and still maintains a 3.7 GPA. He wants to pursue an MA at UC-Berkeley with a career goal of software/systems programming or windows programming.

Suresh Agrawal, a junior in the Computer Science department, arrived in the US in 1997 from Nepal, and has overcome the language barrier while providing for his family (wife and two children). He has supported himself and his family on scholarships, loans and financial aid grants. He is a dependable and conscientious student who is highly motivated and is interested in networking as a career. After graduation in 2003, he would like to go to Grad school.

2002-03 Alumni Scholarship Recipients

Kylene Moore is a senior majoring in Molecular Biology with minors in Chemistry and Physics while maintaining a GPA of 3.95. She also works on campus as a student assistant to four Biology professors and facilitates a workshop for Organic Chemistry students. She plans to become an obstetrician/gynecologist caring for financially disadvantaged women in crisis situations.

Errol Omarr Ozdalg is a graduate student in Biology, having majored in Biology and minored in Chemistry at SJSU with a GPA of 3.6. He is very active in Sigma Chi fraternity and is working on a Master’s degree while applying to medical school to become a medical researcher.
The Fall 2002 Annual Fund Drive is Coming

You will have an opportunity to support the College of Science and our programs with our Fall campaign. Phone calls will begin on November 1st. If you prefer not to wait for the phone call, please send your donation to SJSU by using the form on the back of this newsletter or on our website:

http://www.science.sjsu.edu/PymtForm.html

We thank you in advance for your generosity and your willingness to help our deserving students.

ANTONIO GARCIA
B.S., Geology ’94
Antonio completed a MS program at the University of New Mexico in December 1996 where his MS thesis studied the late Quaternary landscape evolution history (about 15,000 years ago to the present) of the Dosewallips River drainage basin, which is on the Olympic Peninsula of Washington State. The history included glaciation and incision/downcutting by rivers. He received his PhD from University of California, Santa Barbara, in June 2001. His doctoral thesis was a study of the long term (300,000 years to present) evolution of the Rio Andarax in southern Spain. He addressed the problem: “How do streams evolve in mountainous terrain that is tectonically active? Or, how do streams evolve in mountains which are actively growing?” Currently Antonio is in his 2nd year on faculty at Cal Poly San Luis Obispo.

MARTY FROOMIN
BS, Computer Science ’00
(Minors in Math and Physics)
After graduating on May 27, 2000, Marty started his new life with Sun Microsystems on May 31, 2000. To enhance his income he began teaching UNIX classes for the Computer Science (CS) Department in August 2000. He first became interested in a career as a UNIX System Administrator when the CS department started the UNIX program. He had his first exposure working with Sun employees and knew it was where he wanted to work. He started as a lab instructor at SJSU in 1998. After his first year with Sun, he received the STARS Award, Sun’s Top Achievement Recognition Summit Award given to employees considered to be in the top five percent.

Marty finds teaching at San José State very rewarding and he offers workshops on Saturdays. He hopes to see more people turn out for the workshops which are open to anyone. He is available to his students to review resumes, perform mock interviews, and answer any questions they may have in preparation for seeking employment, and considers this part of his job. While some junior colleges have approached him, San José State is where he got his education and teaching is a way for him to give something back. He looks forward to a long career at Sun Microsystems and San José State University and would like to say, “thank you” to the students and faculty who have enriched his life.

HORACIO MURILLO
BS, Chemistry ’94
In October, 2001, Horacio completed his PhD in Molecular Pharmacology and Experimental Therapeutics and is currently in his 3rd year of Medical School at the Mayo Clinic in Rochester, MN, where he also does research. After completing his first two years of medical school he joined the graduate school for the PhD portion of it. His thesis project was in the field of prostate cancer research where he studied the molecular mechanisms of cell-killing resistance and androgen independence in prostate cancer cells. He received a predoctoral fellowship from NIGMS, NIH, which funded part of his studies paying for all expenses during graduate school and allowed him to travel to scientific meetings, etc. He also received several Young Investigator awards from the AACR and NCI (American Association for Cancer Research; National Cancer Institute).

MAXIM OVSYANNIKOV
BS, Molecular Biology ’00
Maxim is beginning his 3rd year of medical school at UCSF where he became involved with many research projects related to cancer treatments. This past summer he had an internship at Sloan-Kettering in New York City.
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