San José State University Research Foundation

2005-2006

1932–2007
President's Message

Congratulations to the San José State University Research Foundation on its 75th anniversary! As the University celebrates its sesquicentennial anniversary, it is important to recognize SJSU Research Foundation’s substantial contributions to our growth and success for half of those one hundred and fifty years.

The SJSU Research Foundation can look back with pride on major accomplishments across a broad spectrum of basic and applied research. From teacher training to space exploration, our sponsors have provided more than $614 million over the last twenty years alone that not only enable the work of hundreds of SJSU faculty and employ thousands of students, but also allow reinvestment in university facilities and infrastructure. Under the direction of SJSU faculty, externally sponsored work has significantly enhanced the University’s academic quality, while engaging faculty and students in the creation and application of new knowledge.

Tower Hall and Dr. Martin Luther King, Jr. Library, today

Don W. Kassing
President
San José State University

Together, we have built an organization that, in partnership with the university, has effectively leveraged our intellectual capabilities.

Let me also acknowledge the contributions made by the Research Foundation professional staff and the significant commitments made year after year by the Board of Directors, comprising university faculty, administrators and community leaders. Together, we have built an organization that, in partnership with the University, has effectively leveraged our intellectual capabilities. The stories in this annual report show the many ways in which the SJSU Research Foundation has impacted the University, the local community, and the Northern California region.

The Research Foundation has lived up to its motto of being Silicon Valley’s university partner for research and innovative solutions. As we celebrate this important milestone, I look forward to the strong relationships that will be forged between the San José State University Research Foundation and the community at large in the next 75 years. Here’s to solving real-world problems and making new ideas happen!

San José State College, 1935

San José State University Research Foundation
When the “San José State Teachers College” voted to establish the San José Corporation in 1932, their goal was simple: create an organization that could manage external funds on behalf of the university. Their first project was the construction of the original football stadium. Fast forward a quarter of a century and you’ll see San José Corporation transformed into the San José State University Research Foundation – an organization that has grown and diversified its activities to include research, training and public service programs that span every academic discipline at SJSU.

Today the SJSU Research Foundation has annual revenues of $70 million, employs 1,300 full and part-time employees, and operates in twelve different states and five countries. Talented SJSU faculty experts direct the 700 individually-awarded programs that are sponsored by 240 different federal, state, local government and non-profit organizations. An innovative partnership with the City of San José and the San Jose Redevelopment Agency resulted in the $19 million public investment that has supported four different sector-specific business incubators since inception of the partnership in 1994. As a result of this innovative endeavor, approximately 240 companies have been launched creating over 4,000 jobs.

While the basic purpose of the organization remains the same as it was 75 years ago, today the Research Foundation enables San José State’s externally-funded research and education-related activities that are so integral to the University’s mission. It is with great pleasure that I share with you this year’s case studies that illustrate the depth and breadth of our programs’ local and global impact. The entire campus community can take pride in our long and successful history, and we look forward to continued accomplishments of an even brighter and better future.

Mary Sidney
Chief Operating Officer
San José State University Research Foundation

San José State University Research Foundation is an organization that has grown and diversified its activities to include research, training and public service programs that span every academic discipline at SJSU.
Work that matters
Improving Health Treatments

JSU Professor of Chemistry Joe Pesek is proving that long-term investment in the studies of complex chemical separations can yield significant returns. Among Pesek’s recent accomplishments: important new and emerging applications for health treatment ranging from drug manufacturing to health diagnosis.

Pesek’s expertise involves manipulating chemical separations, a process that divides mixtures into their component materials. According to the 20-year veteran of chemical studies, “when a chemist seeks to create a new mixture — a lifesaving drug, for example — the resulting materials often include impurities and other extraneous matter that can be difficult to remove.” Now, he is able to use his understanding to help medical device manufacturers produce specialized equipment that increase the speed and efficacy of chemical separation and, consequently, reduce manufacturing costs.

Results reported by biotechnology and pharmaceutical companies include not only purer drugs, but significantly increased potential for innovative research using Pesek’s separation techniques to experiment with more chemical combinations.

Another emerging application of Pesek’s work involves the creation of biomarkers — compounds that determine the presence of disease or other metabolic malfunction. His goal is to create inexpensive chemical “chips” that a lab worker can insert into a machine to study patient samples. “A clinical laboratory can inject the sample into the system and get a yes or no answer as to whether this compound is present,” Pesek says. “I think this is the wave of the future for clinical laboratories, that there will be a lot of these chip-type devices that assist in diagnosis.”

You can’t get new plastics, you can’t get new microchips, you can’t get new anything unless you’ve done a lot of fundamental research.

Joe Pesek’s chemical separations research was recently recognized by the National Science Foundation as one of fifty projects that have had a broad impact nationwide. He has given lectures on his research in China, Sweden and Germany, as well as at pharmaceutical companies including Abbott, Pfizer and Roche.

Even though Pesek’s research is being applied to produce useful devices today, he emphasizes the importance of fundamental research that explores chemistry without requiring an immediate payoff. “You can’t get new plastics, you can’t get new microchips,” Pesek says. You can’t get new anything unless you’ve done a lot of fundamental research.”

For more information about the SJSU Department of Chemistry, visit www.chemistry.sjsu.edu/.
Lights, Camera, Action!

As one of only a handful of university-based film production houses in the country, the founders of SJSU-based South Bay Film Studios imagine their enterprise as a baseball team whose every game brings home field advantage. Residing within the Television, Radio, Film and Theatre Department, South Bay Films gives students training and work experience both in front of the camera and behind the scenes. And while the students may be the rookies, the training provides “major league” experience.

Their first feature length drama, *Drifting Elegant* is set in San Francisco, although careful observers will spot some San José landmarks. Directed by SJSU Professor Amy Glazer, the film has already generated critical buzz, including garnering a coveted slot in the Mill Valley Film Festival and landing a laudatory review in *Variety*. And more films are currently in production.

*Drifting Elegant* showcases South Bay Films’ twin goals of producing great projects and training a new generation...
Faculty/Student production crew preparing for filming on SJSU campus.

of film production students. For co-production head Nick Martinez the goal is to place students in each phase of production, to “give them as much of a real world experience as possible, from raising money to hiring talent and production staff, to final editing and distribution.” Part of this experience includes working not only with university faculty, but Hollywood industry professionals who have worked with such well-recog-

alents as George Clooney and Francis Ford Coppola. One of those industry professionals is a lead role in "Drifting Elegant," SJSU alumnus Coby Bell, who starred in the popular weekly television series "Third Watch." South Bay Films’ co-production head and faculty member Barnaby Dallas emphasizes that South Bay Films does not try to build a multi-million dollar studio producing films with huge special effects. Instead, the company shoots many of its interiors inside SJSU’s Hugh Gillis Hall. According to Dallas, “We don’t blow up cars, we can’t make the X-Men. What we can do is make intelligent dramas and comedies with a lot of realism... and we can do that very well.” With that approach SJSU students working at South Bay Film Studios have a chance to advance from being rookies in the game of filmmaking to becoming big league superstars.

"Give them real world experience, from raising money to hiring talent and production staff"

South Bay Films students/crew production activities

For more research on South Bay Film Studios, visit www.tvradiofilmtheatre.com

VERSATILE

WWW.SJSUFUNDATION.ORG | 7
As the alarm continues to sound concerning the shrinking number of U.S.-born students heading into science and math fields, Kurt McMullin, SJSU associate professor of engineering, and Carolyn Nelson, SJSU professor and chair of the Department of Elementary Education (K-8) have teamed up with the Partnership for Student Success in Science (“PS3”) to help stem the tide. PS3, a coalition of university professors, school teachers, and industry leaders from Synopsys and Agilent Technologies, is working to transform science education for 26,000 K-8 students and teachers throughout nine South Bay Area school districts.

McMullin and Nelson have departed from the traditionally passive way in which K-8 science is taught to stress inquiry-based teaching and learning. According to the co-principal investigators, many math and science teachers focus their efforts on chalkboard lectures, limiting their students’ learning to the rote memorization of abstract facts. In contrast, Nelson says: “Inquiry based teaching/learning gives students a chance to engage science problems and the opportunity to see how real science works, as much as possible in a classroom context. Moreover, educators are inspired to enhance their own teaching methods when they employ this approach.”

Agilent Technologies and Synopsys contribute to the project with funding and space, demonstrating that Silicon Valley businesses are concerned about and are working to improve the pipeline of future engineers. But just as importantly, PS3 is committed to expanding the understanding of science beyond the professional community. The goal is to ensure that all graduates of regional schools can understand the impact of science on our everyday lives, and that they can participate in the debates about technological innovation that will only continue in coming years. McMullin states, “Science touches so many major facets of life and we need an educated populace.”

The Palo Alto Unified School District is lead partner for the collaborative’s total $6,766,846 five-year Nation-
al Science Foundation grant award which is one of only seven Math Science Partnership grants funded throughout the country in 2006. From those funds, SJSU will be awarded $670,000 to support the efforts of Professors McMullin and Nelson.

For more information about PS³, visit www.pscubed.org/.

Science resource teacher leads workshop (right)
CommUniverCity: Empowering Neighborhoods

CommUniverCity projects include urban planning workshops and voter registration drives in the Five Wounds-Brookwood Terrace Neighborhood.
In an era where neighbors often don’t seem to know each other’s names, one San José community is working with the city and university to significantly enhance its voice and its potential for positive impact on the lives of its members. The Five Wounds/Brookwood Terrace (FWBT) neighborhood has teamed up with CommUniverCity, a consortium that includes SJSU, the City of San José, AmeriCorps, The Health Trust, and other organizations dedicated to meeting the needs of many underserved communities.

Terry Christensen, SJSU professor of political science and executive director of CommUniverCity, explains how FWBT, working with the City of San José Strong Neighborhood Initiative Project, has identified education, health, and neighborhood environment as three community priorities. “This is a neighborhood that hadn’t had this kind of focus from as many non-profit groups, the university, or other projects,” Christensen says. “So there was a need, there was proximity, and there was an eager partner.”

One example of CommUniverCity supporting empowerment for FWBT is in helping the community develop a Town Square Plan, including crafting a professional proposal for a high-density, mixed use, pedestrian oriented center as an alternative to the parking lot and BART station being planned. Working with CommUniverCity, the neighborhood will ensure that its voice is well-articulated in the planning process.

Susan Meyers, dean of the College of Education and SJSU Research Foundation Board Member, is co-chair of the CommUniverCity Steering Committee. She adds that, beyond the community engagement, “It’s about planting seeds. It’s about helping families recognize that San José State University is their university. Students participate in all projects, gaining valuable insights through community-based experiential “service learning” linked to their academic programs. FWBT is just one of 19 communities identified in the City of San José Strong Neighborhood Initiative and other neighborhoods are looking to form similar alliances and apply lessons learned from CommUniverCity. Meyers advises, “It’s about helping families recognize that San José State University is their university. This concept is something that will become a part of the way we do business at the university in partnership with the city, the school districts, local agencies and the communities.”

For more information about CommUniverCity, visit www.communivercitysanjose.org.

SJSU students leading chemistry class at McKinley Elementary School

It’s about planting seeds. It’s about helping families recognize that San José State University is their university
Director of SJSU’s School of Social Work, Dr. Alice Hines, and her colleagues train the largest group of child health and mental health care workers in Santa Clara and surrounding counties. That’s why when Santa Clara County wanted to understand how better to provide services to its neediest children and their families it turned to Hines to study the gaps within the county’s child welfare case management procedures and to recommend improvements. Hines and her research team found inadequate accounting for the numbers of children from different cultural and ethnic groups entering the system, despite the fact that the county’s child welfare system includes a disproportionate amount of persons of color. Based on study findings, the county is now working to transform a one-size-fits-all approach into one that meets the specific needs of individual children and their families. Hines explains, “Santa Clara County is pioneering in this area in trying to offer more culturally specific interventions.”

Beyond the county project, Hines and her colleagues pursued research on another population of young people whose needs require special attention. Hines received a report of some SJSU students who were also foster youth sleeping in cars during winter break because the dorms were closed and they had nowhere else to go. The incident was one of a number of foster youth student experiences and special needs examined by the School of Social Work, whose researchers examined the characteristics of such students when they successfully complete their degrees, despite the odds. “This was the first research in the nation that really looked at positive outcomes for foster youth,” Hines explains.

Following the pilot study at SJSU, the research was expanded to include ten other California State University sites and their neighboring counties from San Diego to Humboldt. Their work helped the counties and university campuses make important changes in addressing the practical needs of vulnerable youth populations.

For more information about child welfare research, visit www.sjsu.edu/cwrt/.
Hines and her research team found inadequate accounting for the numbers of children from different cultural and ethnic groups entering the system.
San José State University’s Norman Y. Mineta International Institute for Surface Transportation Policy Studies (MTI) brings together top leaders and industry experts to assess critical policy issues ranging from transportation finance to homeland security. Now in its 15th year, MTI recently competed successfully against 35 of the nation’s premier research universities to be named one of ten Tier One “National University Transportation Centers of Excellence.”

MTI’s hands-on approach to transportation research links SJSU faculty/student teams with experts from around the world to answer questions that cannot be addressed by local specialists. According to Executive Director Rod Diridon, “Faculty/student teams are essential to our research. These teams bring state-of-the-art knowledge back to SJSU where it is made available not only to students but also to national policy makers.”
MTI’s hands-on approach to transportation research pairs SJSU faculty/students teams with experts often recruited from around the world

MTI has also been designated the “National Transportation Security Center” based on comprehensive counter-terrorism and emergency response research begun in 1996. The MTI-NTSC network of international transportation security contacts has produced sophisticated security reports for both internal and external use. Indeed, soon after 9/11, MTI was asked by the U.S. Department of Transportation and others to host the National Transportation Security Summit. The Institute will host another such summit again in 2007 in Washington, D.C.

Security is only one of the many focus areas for MTI. The Institute also researches state and national transportation finance policy. The challenge is to create new funding sources for transportation system construction and maintenance as traditional financing, based on gas taxes, becomes less viable. MTI has taken the lead in creating innovative finance alternatives such as public-private partnerships.

Additionally, MTI produces land-use research promoting clustering of development near transit stations, as is found in Europe and Asia, to avoid urban sprawl.

Diridon explains: “Our emphasis is not on theoretical research, but on specific deliverables that can be used at both the state and national level to solve current problems. Our congressionally assigned objective is to promote the nation’s geoeconomic competitiveness.”

Beyond campus-based instruction, MTI uses state-of-the-art videoconferencing to offer the Master of Science in Transportation Management from within SJSU Lucas Graduate School of Business to students at 24 sites across California.

For more information about MTI, visit www.transweb.sjsu.edu.
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<th>College of Applied Sciences and Arts</th>
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<td>Lucy McProud</td>
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<td><strong>BUSINESS AND COMMUNITY PARTNERSHIPS</strong></td>
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<td>In partnership with the City of San José Redevelopment Agency, the SJSU Foundation manages and operates four business incubators providing facilities, world class business development services, and access to faculty experts and student interns to high-potential, early-stage companies. Activities also include business development advice for international companies planning to establish and grow their U.S. market reach. Shown here, left to right, are business incubator directors Melinda Richter, San José BioCenter; Chuck Erickson, U.S. Market Access Center and Software Business Cluster; and Jim Robbins, Environmental Business Cluster.</td>
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School of Nursing
Jayne Cohen
Increasing Nursing Student Enrollment
The Valley Foundation
$18,544

The Health Place
Town of Los Gatos
$16,892

Phyllis Connolly
Professional Nurse Traineeships
U.S. Department of Health and Human Services
$43,596

School of Business
Dean’s Office
Bruce Magid
Rod Diridon
Mineta Transportation Institute
U.S. Department of Transportation
$780,000

Mineta Transportation Institute
California Department of Transportation
$780,000

Transportation Financing Opportunities for State of California Project
California Department of Transportation
$159,950

Peter Haas
2006 Summer Transportation Institute
University of South Carolina
$38,800

Total: $1,758,750

College of Education
Child and Adolescent Development
Kathryn Lindholm-Leary
Evaluation of Developmental Bilingual Education Programs
Sweetwater Union School District
$18,000

Evaluation of Developmental Bilingual Education Programs
South Bay Union School District
$14,000

Amy Strage
Preparing High Quality Teachers to Achieve in Highly Qualified Schools
Foundation of California State University Monterey Bay
$350,000

Communicative Disorders and Sciences
Gloria Weddington
Project Horizonte
U.S. Department of Education
$189,180

Project Fo’na (Move Ahead!)
Master’s Degree Program in Communicative Disorders
University of Guam
$144,852

Counselor Education
Andrew Hughey
Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP)
U.S. Department of Education
$1,237,818

Enhancing the Teaching and Learning Functions Through the Use of Instructional Technologies in GEAR UP Classrooms: A Capacity Building Program for Teachers
National Council for Community and Education Partnerships
$50,000

Elementary Education
Sandra Hollingsworth
The California Reading and Literature Project – No Child Left Behind Technical Assistance and Support Program
The Regents of the University of California
$108,530

The California Reading and Literature Project
The Regents of the University of California
$22,500

Carolyn Nelson
Quality Higher Education for Students with Disabilities
Bank Street College
$60,000

Katharine Davies
Samway
Vocabulary Development through Writing: A Key to Academic Success
The Regents of the University of California
$325,179

Andrea Whittaker
Carolyn Nelson
SJSU/Bank Street College Teachers for a New Era Partnership
Bank Street College
$93,022

Special Education
Gilbert Guerin
High School Teacher Preparation High Stake Testing and Dropout Reduction
U.S. Department of Education
$400,000

Program to Reduce Critical Teacher Shortage and Improve Literacy for Minority Children with Disabilities
U.S. Department of Education
$200,000

Preparation of Teachers for Special Education Minority Youth in High-Risk Urban and Alternative Settings
U.S. Department of Education
$200,000

2006 EARLY CAREER INVESTIGATOR AWARD RECIPIENT
John Clapp, assistant professor, Animation and Illustration Department, is the illustrator of five published picture books for children, and dozens of book jackets for almost every major American publishing house. Pages from his sketchbook were recently included in a book about creative journals, as well as a textbook about the use of color in visual art. He is currently working on an instructional art textbook intended for a general audience.
Hyun-Sook Park
Safe Life
Sacramento Unified School District
$28,472

Total: $3,441,553

College of Engineering
Dean’s Office
Ping Hsu
MESA Engineering Program – NSF Scholarship
The Regents of the University of California
$104,688

SJSU MESA Engineering Program – Continuance of HP Scholars
Hewlett-Packard Company
$39,840

Engineering Projects in Community Service (EPICS) Program at SJSU
Purdue University
$20,490

Chemical and Materials Engineering
Emily Allen
Investigation of Alternative Heat Sink Materials
Jabil Circuit, Inc.
$16,265

Bollinger Bridge Model Multitech Engineering Consultants, Inc.
$4,766

Computer Engineering
Ahmed Hambaba
Nanoscale Materials and Device Characterization Program
U.S. Department of Defense
$50,000

Sigurd Meldal
Team for Research in Ubiquitous Secure Technology (TRUST): An NSF Science and Technology Center
The Regents of the University of California
$40,000

Sigurd Meldal
Dan Harkey
Quality Assurance Internships
Jet Propulsion Laboratory
$11,693

Virtual Airspace Modeling Program
NASA
$100,039

Model Deployment for Providing Risk Assessment in the Computational Models of Human System Performance
NASA
$75,000

Electrical Engineering
Chang Choo
Mobile Voice Over IP: Technology, Market and Regulatory Regimes
Electrical and Telecommunications Research Institute
$20,000

Essam Marouf
Investigation of Saturn’s Rings by Cassini Radio Occultation
Jet Propulsion Laboratory
$179,700

Industrial and Systems Engineering
Kevin Coker
Post Hoc Human Factors Analysis of Fast Time Simulation Results in Assessment of Operational Concepts in Next Generation Air Transportation System (NGATS)
NASA
$361,946

Virtual Airspace Modeling Program
NASA
$100,039

Model Deployment for Providing Risk Assessment in the Computational Models of Human System Performance
NASA
$75,000

Electrical Engineering
Chang Choo
Mobile Voice Over IP: Technology, Market and Regulatory Regimes
Electrical and Telecommunications Research Institute
$20,000

Essam Marouf
Investigation of Saturn’s Rings by Cassini Radio Occultation
Jet Propulsion Laboratory
$179,700

Mechanical and Aerospace Engineering
John Lee
Stacy Gleixner (Chemical and Materials Engineering)
Tai- Ran Hsu
Interdepartmental Joint Development of Hands-On MEMS Using Semi-Custom Design Flow
National Science Foundation
$99,676

Total: $2,566,737

College of Humanities and the Arts
School of Art and Design
Pamela Sharp El Shayeb
The Bay Area California Arts Project 2005-06
Leadership Support
Flora Family Foundation
$40,000

Pamela Sharp El Shayeb
Kathie Kratochvil
The Bay Area California Arts Project
The Regents of the University of California
$160,000

English and Comparative Literature
Mitch Berman
Center for Literary Arts
City of San José
$18,000

Center for Literary Arts
Arts Council Silicon Valley
$5,500

Jonathan Lovell
San José Area Writing Project – No Child Left Behind
The Regents of the University of California
$1,000
San José Area National Writing Project
The Regents of the University of California
$45,000
San José Area Writing Project
The Regents of the University of California
$35,000
Total: $354,500

Moss Landing Marine Laboratories
Simona Bartl
Incorporation of Marine Research and Resource Issues into Public Education
U.S. Department of Commerce
$49,910
Simona Bartl Robertta Barba (Instructional Technology)
Marine Biotechnology and Bioinformatics for Teachers National Science Foundation $996,955

Laurence Breaker
The Response of the Upper Ocean to Varying Meteorological Conditions Using Ocean Models and Satellite Imagery
NASA
$85,506
Using the 83-Year Record of Sea Surface Temperature at Pacific Grove, California as a Proxy for Selected Offshore Chemical and Biological Parameters
The Regents of the University of California
$52,764

Gregor M. Cailliet
Allen Andrews
Age Validation of New Zealand Deepwater Fish
National Institute of Water and Atmospheric Research
$66,050
Bamboo Coral of Davidson Seamount: Age and Growth Investigations
U.S. Department of Commerce
$39,000

2006 EARLY CAREER INVESTIGATOR AWARD RECIPIENT
As Principal Investigator, John Lee, assistant professor, Mechanical and Aerospace Engineering pulled together two interdisciplinary teams of investigators across mechanical engineering, materials engineering, and electrical engineering to win two National Science Foundation awards.
One project (further benefited by seed support from Intel Corporation) has established a new laboratory course and enhanced research capabilities in microelectromechanical systems (MEMS), and the other has introduced nanotechnology content to modernize existing engineering.

Gregor M. Cailliet
David Ebert
Studies of Life History, Population Structure, Habitat Utilization, and Fishery Biology of Pacific Sharks and Rays
Mote Marine Laboratory
$429,607

Kenneth Coale
The California State University Center for Integrative Coastal Ocean Research
U.S. Department of Commerce
$4,744,639
MLML/MBARI Act Partnership at SJSU
University of Maryland Center for Environmental Science
$278,268
Bioaccumulation Factors for California’s Enclosed Bays and Estuaries
California State Water Resources Control Board
$200,000

Kenneth Coale
Russell Fairey
Technical Support of Bay/Delta and Tributaries Project (BDAT) and the California Environmental Data Exchange Network (CEDEN) Projects
California Department of Water Resources
$499,999

Contaminant Levels in Fish Tissues in San Francisco Bay – 2006
San Francisco Estuary Institute
$92,644

SWAMP Database and Application Training “On the Job” at Regional Boards
The Regents of the University of California
$25,000

Database Development, Training and Outreach for Ag Waiver Program – Modesto, Turlock, Oakdale, Merced and South San José Irrigation Districts
The Regents of the University of California
$23,800

As Principal Investigator, John Lee, assistant professor, Mechanical and Aerospace Engineering pulled together two interdisciplinary teams of investigators across mechanical engineering, materials engineering, and electrical engineering to win two National Science Foundation awards.
One project (further benefited by seed support from Intel Corporation) has established a new laboratory course and enhanced research capabilities in microelectromechanical systems (MEMS), and the other has introduced nanotechnology content to modernize existing engineering.
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Amount</th>
<th>Roles</th>
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<tbody>
<tr>
<td>SWAMP Database and Applications Training at State Board and Other Venues</td>
<td>$5,728</td>
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<td>The Regents of the University of California</td>
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<tr>
<td>Kenneth Coale</td>
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<td>Stewart Lamaredin</td>
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<td>Richard Muller</td>
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<td>Oceanographic Technical Services</td>
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<td>$46,700</td>
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<tr>
<td>Kenneth Coale</td>
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<td>Doug Conlin</td>
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<td>Oceanographic Instrumentation</td>
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<td>Exposure and Effects Pilot Study</td>
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<td>Gregor M. Cailliet</td>
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<td>Diet and Trophic Ecology of Skates in the Gulf of Alaska</td>
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<td>(Raja and Bathyraja spp.): Foundational Ecological Information</td>
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<td>Interspersion of Critical Habitats, and the Design of Effective MPA Networks</td>
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<td>Tracking Sooty Shearwater Habitat Use throughout Dynamic Upwelling Ecosystem in the California Current</td>
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</table>

**SWAMP Database and Applications Training at State Board and Other Venues**

The Regents of the University of California

**Kenneth Coale**

**Stewart Lamaredin**

**Richard Muller**

Oceanographic Technical Services

National Science Foundation

**$164,600**

**Kenneth Coale**

**Stewart Lamaredin**

**Richard Muller**

Doug Conlin

Oceanographic Instrumentation

National Science Foundation

**$46,700**

**Kenneth Coale**

**Richard Muller**

Ship Operations

National Science Foundation

**$78,503**

Office of Naval Research

Ship Operations

U.S. Department of Defense

**$490,178**

Shipboard Scientific Support Equipment

National Science Foundation

**$26,147**
Diet of California Sea Lion (Zalophus californianus) at Ano Nuevo Island, California
Pacific States Marine Fisheries
$15,000

Stacy Kim
Collaborative Research Site Evaluations and Background Studies of Interactions among Fluid Chemistry, Physiology, and Community Ecology for Ridge 2000 Lau Basin Integrated Studies National Science Foundation
$38,419

Valerie Loeb
Krill Demography and Zooplankton Composition of the Antarctic Marine Living Resource Program Study U.S. Department of Commerce
$175,000

John Oliver
James Oakden
Taxonomic Identification of Continental Shelf Benthic Samples U.S. Department of Commerce
$145,530

Mike Prince
University-National Oceanographic Laboratory System (UNOLS) National Science Foundation
$642,202

University-National Oceanographic Laboratory System (UNOLS) U.S. Department of Defense
$175,000

Stephen Branz
Determining Abundance, Movements, and Mortality of Important Nearshore Fish Species along the North Central California Coast Pacific States Marine Fisheries
$20,000

Total: $15,152,188

College of Science
Dean's Office
Stephen Branz
2005-2006 Mathematics Engineering and Science Achievement (MESA) The Regents of the University of California $220,000

Richard Starr
Determining Abundance, Movements, and Mortality of Important Nearshore Fish Species along the North Central California Coast Pacific States Marine Fisheries $20,000

George Castro
Title V Evergreen Valley College and San José State University Partnership San José/Evergreen Community College District $188,650

Biological Sciences
Chris Brinegar
Application of DNA Sequencing to the Identification of Listed Spineflower Species in Overlapping Populations U.S. Fish and Wildlife Service $5,000

Sabine Rech
Monika Kress (Physics)
Soil Microbial Diversity and Distribution in the Bristlecone Pine Forest, White Mountains, California NASA
$26,728

Adrian Rodriguez
SJSU Bridges to the Baccalaureate Degree U.S. Department of Health and Human Services $213,067

Julio Soto
MBRS-SCORE: Function of Anchorage and Localization Sequences in Leech mRNA U.S. Department of Health and Human Services $68,240

Mara Williams
Clinical Laboratory Scientists Test Preparation Program California Health Foundation and Trust $11,339

Chemistry
Elaine Collins
Santa Clara County Biotechnology Education Partnership Genentech Foundation for Biomedical Sciences $120,000

Sri International $28,000
Herbert Silber  
MBRS-SCORE Program at San José State University  
U.S. Department of Health and Human Services  
$49,814

Karen Singmaster  
CSU: Louis Stokes Alliance for Minority Participation-LSAMP  
University Enterprises, Inc.  
$80,000

**Geology**

Ellen Metzger  
Hindcasting Ecosystems II  
NASA  
$25,507

Ellen Metzger  
Cindy Schmidt (Geography)  
NASA Earth Science for Teachers  
NASA  
$187,677

Ellen Metzger  
Richard Sedlock  
CAMSP: Ravenswood School District, Palo Alto  
Ravenswood School District  
$77,167

The South Bay Geo-Diversity Project: Phase II  
National Science Foundation  
$58,584

Robert Miller  
Collaborative Research: Linking Deep and Shallow Crustal Processes, North Cascades, Washington  
National Science Foundation  
$310,000

Santa Clara Valley Mathematics Project – Silicon Valley Mathematics Initiative, Mathematics Assessment Collaborative  
Noyce Foundation  
$150,000

Santa Clara Valley Mathematics Project – Silicon Valley Mathematics Initiative, Director of Professional Development  
Noyce Foundation  
$98,106

Santa Clara Valley Mathematics Project  
The Regents of the University of California  
$32,400

Santa Clara Valley Mathematics Project – No Child Left Behind  
The Regents of the University of California  
$25,600

Mathematics

Joanne Rossi Becker  
Santa Clara Valley Mathematics Project  
$74,960

Eugene Cordero  
CAREER: Connections between Stratospheric Perturbations and Climate Change – Research and Teaching Integration  
National Science Foundation  
$128,513

Modeling the Response of the Climate System to the 11-Year Solar Cycle  
The Regents of the University of California  
$88,645

Physics and Astronomy

Natalie Batalha  
UARC Systems Teaching Institute  
The Regents of the University of California  
$240,739

Alison Bridger  
Jeffrey Hollingsworth  
Extrareal Planets: Atmosphere and Habitable Climates  
NASA  
$190,000

Eugene Cordero  
CAREER: Developing a Mathematical Knowledge Base for Teaching and Learning Generalization in Basic Algebra at the Middle School Level in Urban Context  
National Science Foundation  
$78,804

Tim Hsu  
Analysis of Heat Pipe Performance Tailored for MEROM/Santa Rosa in Mobile Computers  
Intel Corporation  
$97,830

Meteorology

Alison Bridger  
The Dynamical Evolution of the 2001 Martian Global Dust Storm  
NASA  
$34,669

Alison Bridger  
JRI: Intelligent Instruments on Robotic Helicopters  
NASA  
$15,765

Ferdinand Rivera  
CAREER: Connections between Stratospheric Perturbations and Climate Change – Research and Teaching Integration  
National Science Foundation  
$128,513

Ferdinand Rivera  
JRI: Intelligent Instruments on Robotic Helicopters  
NASA  
$15,765

Ferdinand Rivera  
CAREER: Developing a Mathematical Knowledge Base for Teaching and Learning Generalization in Basic Algebra at the Middle School Level in Urban Context  
National Science Foundation  
$78,804
Friedemann Freund  
Postdoctoral Research Fellowship: Pulsating Electric Currents in the Crust  
National Geospatial-Intelligence Agency  
$54,192

Patrick Hamill  
Transfer of Impact Ejecta from Io to Europa  
NASA  
$50,000

Theoretical Studies  
Combined with Satellite Observations of Aerosol Formation Processes  
NASA  
$27,000

Analysis of Airborne and Satellite Aerosol Measurements  
NASA  
$9,106

Michael Kaufman  
Multidimensional Transport and Chemistry in Protoplanetary Nebulae  
NASA  
$134,485

Oxygen Chemistry in Diffuse and Dense Interstellar Clouds: Modeling SWAS Observations  
NASA  
$52,894

Tracking Warm H2 in Photodissociation Regions  
Jet Propulsion Laboratory  
$20,900

Photodissociation Regions: Laboratories for Astrochemistry  
University of Maryland  
$17,166

Michael Kaufman  
Patrick Hamill  
Research Experiences for Undergraduates (REU) Site for Research in Physics  
National Science Foundation  
$85,000

Kiumars Parvin  
David Bruck (Biological Sciences)  
Gregory Young (Chemical and Materials Engineering)  
RUI: Synthesis, Structure, and Magnetic Studies of High Anisotropy Magnetic Nanocrystals  
National Science Foundation  
$220,000

Ken Wharton  
K-Alpha X-Ray Source Development  
Lawrence Livermore National Laboratories  
$60,000

Environmental Studies  
Bruce Olszewski  
Recycling Telephone Hotline Information  
Santa Clara County  
$10,632

Cindy Schmidt  
Strengthening Tribal College and University Earth Science Curriculum with Mentoring Partnerships and Innovative Geospatial Technologies  
Salish Kootenai College  
$36,564

Cindy Schmidt  
L. Jean Palmer-Moloney  
Education and Outreach/DEVELOP: Use of Remote Sensing for Ecosystem Science, Modeling, Application and Education  
NASA  
$68,126

Richard Taketa  
The Land Use Portfolio Model (LUPM) Project  
U.S. Department of the Interior  
$35,000

E. Bruce Reynolds  
East Asia Regional Materials and Resources Center (EARMARC)  
The Regents of the University of California  
$5,000

East Asia Regional Materials and Resources Center (EARMARC)  
Stanford University  
$4,999

Psychology  
Kevin Jordan  
Human Interaction with Automation  
NASA  
$1,435,216

Flight Control and Autonomous Vehicle Research  
NASA  
$1,334,878
IS SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION

Systems Safety Research
NASA
$853,642

Human Performance Modeling and Simulation
NASA
$670,607

Airspace Management and Terminal Air-Traffic Modeling
NASA
$630,986

Human-Systems Integration Technologies
NASA
$341,905

Human Information Management
NASA
$265,000

Kevin Jordan
Shu-Chieh Wu
Model-Based Principles for Information Architecture
DePaul University
$38,812

Human Resource Scheduling in Performing a Sequence of Discrete Responses
The Johns Hopkins University
$29,638

Research Brief:

Objective: Promote academic freedom and constructive dialogue at San José State University by increasing capacity to support open discussion of controversial issues.

Funding: $100,000

University Programs

Academic Services
Frank Castillo
Educational Talent Search
U.S. Department of Education
$204,000

TRIO Dissemination Partnership Program: Teachers and Parents Helping Students (TPHS)
U.S. Department of Education
$195,931

Jeannine Slater
The Ronald E. McNair Postbaccalaureate Achievement Program
U.S. Department of Education
$480,086

Associated Students
Frances Roth
Child Care Access Means Parents in School (CCAMPS) Program
U.S. Department of Education
$176,504

Total: $6,305,827
Career Center
Cheryl Allmen-Vinnedge
Julie Sedlemeyer
SJsu Workability IV Program 2006-2007
California Department of Rehabilitation
$140,400
SJsu Workability IV Program 2005-2006
California Department of Rehabilitation
$130,400
Curriculum and Assessment
Robert Cooper
Difficult Dialogues Initiative
Ford Foundation
$100,000
Debra David
Bridging Borders
AmeriCorps Program
California Service Corps
$295,414
Realizing the Civic Mission of Education in the California State University: A Learn and Serve America Grant Program
Trustees of the California State University
$17,285
Project SHINE: Multiple Pathways
Temple University
$15,000
Bridging Borders
AmeriCorps Program
Alum Rock Union Elementary School District
$1,200
Ashley Raggio
Spring Into Action
Notre Dame Da Namur University
$1,000
Graduate Studies and Research
Edward Landesman
NASA Explorer Schools
Pre-Algebra (NESP): A Conceptual Understanding of Mathematics Using Inquiry-Based Technology Tools and Solar System Data
NASA
$194,348
Guna Selvaduray
Metropolitan Medical Task Force (MMTF) Exercise
City of San José
$23,433
Homeowner’s Guide Translation to Spanish Seismic Safety Commission
$10,000
Pamela Stacks
Collaborative Teacher Institute
House Family Foundation
$95,577
Smart Skies: E-Learn Computer Workstation Project
NASA
$92,068
Philip Trounstine
CommUniverCity Neighborhood Perception Study
San José Redevelopment Agency
$26,000
James Wayman
Consultancy Support to the CEG Biometrics Test Programme Communications-Electronics Security Group
$145,000
Evaluating Fingerprint Identification Technology California Office of Systems Integration
$50,000
SJSU Research Foundation
Jerri Carmo
Research Administrative Resources for the Space Research Directorate
Lockheed Martin Corporation
$177,591
Mary Sidney
Business Assistance Program for PIER Companies
The Regents of the University of California
$94,500
Student Services
Connie Hernandez-Robbins
Safer California Universities: A Multi-Campus Alcohol Problem Prevention Study Prevention Research Center
$60,000
Connect, Motivate and Educate (CME) Society Planning Grant
Walter S. Johnson Foundation
$25,000
Connect, Motivate and Educate (CME) Society Greenhouse Program College Board
$10,000
University Advancement
Nancy Bussani
Collaborative K-12 STEM Support
The David and Lucille Packard Foundation
$150,000
Total: $2,910,737
San José State University Research Foundation
Board of Directors

FROM THE ADMINISTRATION
Don W. Kassing
President, SJSU and
SJSU Research Foundation
Carmen Sigler
Provost, SJSU and Vice President
SJSU Research Foundation
Rose Lee
Vice President for Administration
and Finance, SJSU and Treasurer
SJSU Research Foundation
Pamela Stacks
Associate Vice President for
Graduate Studies & Research
FROM THE FACULTY
Susan Meyers
Dean, College of Education
Roy Okuda
Professor, Chemistry
Michael Solt
Associate Dean
Lucas Graduate School of Business
Sally Veregge
Professor, Biology
James Harvey
Professor
Moss Landing Marine Laboratories
Kathleen Roe
Professor, Health Sciences
FROM THE STUDENT BODY
Francis Howard
Graduate Student
FROM THE COMMUNITY
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San José Area Manager
Kaiser Permanente
Karen Dunlap
Executive Vice President
Wells Fargo Bank
James J. Eller
Attorney
Eller & Associates
NON-VOTING MEMBERS
Mary Sidney
Chief Operating Officer
and Secretary
SJSU Research Foundation
William L. Gates
Legal Counsel
Mesirow, Fink, Rosenblatt
and Dawson


Revenues: $74,853,971

- Investment Income: $3,497,635
- Gifts and Endowments: $7,518,854
- Self-Supported and Enterprise Programs: $13,869,059
- Private Foundations, Corporate Grants and Contracts: $4,806,926
- Federal Grants: $26,933,401
- Other Revenues: $2,656,649
- State and Local Grants: $15,571,447

Research Grants and Contracts Expenditures
(in millions)

- 2002: $30,160
- 2003: $32,785
- 2004: $35,348
- 2005: $37,892
- 2006: $47,3

2006
San José State University Research Foundation
Statement of Activities
Fiscal Year ending June 30, 2006 (Unaudited)

Revenue and Support

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Total Revenue $74,853,971

Expenses

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Total Expenses $74,446,085

Net Assets-beginning of Year 52,763,333
Transfer of Assets to Tower Foundation (36,244,095)

Net Assets-end of Year $16,927,124
San José State University Research Foundation, your trusted partner:

Access to expertise

Faculty members at San José State University conduct research and public service activities across a broad spectrum of areas and disciplines, ranging from air traffic safety to the preservation of California’s wetlands to the improvement of K-12 classroom instruction. Think of the San José State University Research Foundation as a channel that delivers the skills and talents of SJSU faculty into the workplaces of Silicon Valley businesses, government agencies, and community service providers.

Hands-on service delivery

What differentiates SJSU from its Bay Area university counterparts is its emphasis on applied rather than basic research. While the work of our faculty members is grounded in basic research (our own and that of others), our deliverables make a difference in the lives of those who live and work in our communities today.

Diversity

One of the nation’s most diverse campuses, San José State is headquartered in the heart of Silicon Valley—arguably the most entrepreneurial region in the world. Fueling the region’s economic engine and supporting its educational and social services needs, SJSU supplies a considerable portion of the Bay Area’s workforce.

Accountability

Research administration and program management is a highly regulated enterprise. With over $48 million in assets and $75 million in total annual revenues, the Research Foundation maintains the highest ethical standards for business and program operations, strictly adhering to sponsoring partner requirements, Generally Accepted Accounting Principles (GAAP), California State University policies, and all applicable laws and regulations. The Research Foundation’s financial operations are audited annually by the international accounting firm of Deloitte and Touche LLP.

Experienced leadership

Guided by a Board of Directors with expertise across a range of disciplines, and representing the campus and business communities, the SJSU Research Foundation provides superior service to its partnering organizations. The combined resources, reputation, and entrepreneurial profile of the Research Foundation provide an exceptional framework for successful business and community partnerships.

For more information about our programs or to learn how you might partner with San José State, visit our Web site at www.sjsufoundation.org or call 408-924-7395.

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