

BIO SCIENCE CENTER

A generous gift from alumni Alan and Debbie Gold in 2005 named the Alan and Debbie Gold Auditorium which is used to host lectures, seminars, a distinguished speaker series and symposia on life-sciences related research. The auditorium is a focal point for BioScience Center activities and educates the community about key public health issues including heart disease prevention, drug-resistant bacterial infections and therapeutic responses to bioterrorism.

Other significant gifts to the BioScience Center have helped foster a vibrant and collaborative research space. The Dennis and Linda Fenton conference room on the main floor is used for meetings and regular graduate-level symposia to discuss research findings. The Fentons, who are passionate about supporting scientific education and whose son received his undergraduate degree from SDSU, were early employees of the biotechnology company, Amgen.

Maxine and Gary Kreitzer made a generous gift last year that was recognized by naming the conference room on the third floor in their honor. The conference room is available for formal and informal gatherings related to the Donald P. Shiley Center for Cardiovascular Research.

Frederick Henry was a distinguished alumnus of the College of Sciences and a generous contributor to the BioScience Center through the creation of the Frederick G. Henry Chair in Life Sciences. Fred's goal when establishing the Chair was to foster and encourage emerging areas of scientific research at San Diego State University through the recruitment of a highly respected individual to oversee the enterprise. BioScience Center director Roberta Gottlieb holds the prestigious Frederick G. Henry Chair in Life Sciences.

Vincent R. Okamoto made a generous gift to the BioScience Center in honor of his uncle, Tosh Nomura. An anesthesiologist in private practice in the San Diego area, Dr. Okamoto believes that San Diego State University was instrumental in providing a first class education allowing him to develop his chosen career path in medicine. The lobby of the BioScience Center is named for both gentlemen.

Other gifts from companies and individuals in the biotechnology community and from alumni have helped provide essential resources for the BioScience Center. Their gifts have been recognized on a donor wall in the main lobby, as well as in selected offices throughout the building.



The building

- 35,000 SF in five stories
- Lower level: vivarium
- First floor: Gold Auditorium, Fenton Conference Room, Nomura & Okamoto Lobby
- Second floor: to be constructed
- Third floor: Donald P. Shiley Center for Cardiovascular Research, Kreitzer Conference Room
- Fourth floor: fully occupied with cardiovascular and metabolic research.



AMERICAN RECOVERY AND REINVESTMENT ACT

"A troubled economic time has offered us a moment of opportunity."

– Tom Scott, VP for Research

SDSU Researchers Receive \$11.5 Million in Stimulus Funding

Background

The American Recovery and Reinvestment Act of 2009 (ARRA) authorized an injection of \$787 billion into the American economy. While sixty percent (\$476 billion) will be in the form of tax relief and entitlements, and most of the rest will go to rebuild America's infrastructure through immediate job creation, 2.7% or \$21.5 billion, is being distributed through federal agencies that support health, energy, scientific, artistic, and educational research – all areas in which SDSU faculty excel and have successfully competed for grants in the past.

SDSU Responds to Opportunity

The legislation requires that ARRA funds be distributed and used promptly. Agencies are funding research that can generate meaningful results within two years. SDSU faculty and staff responded swiftly by submitting more than 140 ARRA proposals. Forty-five awards were already received by October 1, 2009.



The National Institutes of Health (NIH) is supporting ARRA programs that stimulate job creation and economic development related to biomedical and biobehavioral research. The National Science Foundation (NSF) is using its ARRA funds to ensure our nation's status as a leader in science and engineering research and education by providing faculty and student access to state-of-the-art scientific equipment and instrumentation. The awards our professors have received will provide additional or continued employment for students and technicians and enhance our nation's research portfolio. It is reasonable to expect that the impact will go beyond SDSU scientists and their students to the greater scientific

AMERICAN RECOVERY AND REINVESTMENT ACT



community. For example, Dr. Shelli McAlpine's ARRA award supports her work to develop potent anticancer agents. Dr. Constantine Tsoukas's ARRA-funded work could lead to the design of drugs to treat and manage lung allergies. A \$2.4 million "Grand Opportunities" award will allow Dr. Linda Gallo and her collaborators at the University of Miami, Northwestern University, Albert Einstein College of Medicine, and UNC/Chapel Hill to study sociocultural factors and cardiovascular disease risk in Hispanics.

SDSU researchers must demonstrate how their programs will help the government accomplish the goal of stimulating the economy. The Act imposes strict reporting requirements detailing how ARRA funds are spent, including an estimate of the number of jobs created and retained by the project or activity. Each SDSU ARRA-funded program will add or retain graduate students, undergraduate students and/or researchers. Forty-one employees have already been hired with ARRA funds, including 20 students who worked on summer research programs. These SDSU programs will address the federal goal of economic benefit and will also allow advances in SDSU's research infrastructure, instrumentation, and personnel.

NIH Challenge Grants

This competitive component of NIH's stimulus program attracted 21,000 proposals; four (12%) of SDSU's 34 Challenge Grant proposals have been funded - versus a national average of 3%. Dr. Mark Sussman received \$500,000 for his project on engineering cardiac progenitor cells to enhance myocardial regeneration. Professors Richard Hofstetter and Melbourne Hovell received \$499,514 to evaluate networking and alcohol consumption among recent immigrants. Dr. John Clapp and Dr. Susan Woodruff received \$495,564 for a screening/intervention for Latino and non-Latino white drug users. And Dr. James Lange's \$497,117 award will be used to develop brief communications about nutrition facts and alcohol content that a) individuals can use to monitor their consumption, b) can motivate them to drink moderately, and c) could be required within bar and restaurant menus by future policies.

More to Come....

Several equipment and construction grants have been submitted under ARRA guidelines to NIH and NSF requesting upgrades, refurbishing, and renovation of SDSU's research equipment, labs and facilities. Funds received would provide state-of-the-art research tools and training environments for SDSU faculty and students. Next year's *Research Report* will bring news about the outcome of these important applications.

Congratulations to all SDSU ARRA Awardees!

The following SDSU faculty have received stimulus funding:

Nader Amir, <i>psychology</i>	James Lange, <i>student health services</i>
Sanford Bernstein, <i>biology</i>	Phyllis-Jean Linton, <i>biology</i>
Jose Castillo, <i>computer science</i>	Stanley Maloy, <i>college of sciences</i>
Jianwei Chen, <i>mathematics and statistics</i>	Sarah Mattson, <i>psychology</i>
John Clapp, <i>social work</i>	Shelli McAlpine, <i>chemistry</i>
Thereasa Cronan, <i>psychology</i>	Monica Medina, <i>KPBS</i>
Steven Day, <i>geological sciences</i>	Claire Murphy, <i>psychology</i>
Kelly Doran, <i>biology</i>	Judy Reilly, <i>psychology</i>
Karen Emmorey, <i>speech language and hearing sciences</i>	Edward Riley, <i>psychology</i>
Linda Gallo, <i>psychology</i>	Eric Sandquist, <i>astronomy</i>
Gary Girty, <i>geological sciences</i>	Satish Sharma, <i>electrical and computer engineering</i>
Roberta Gottlieb, <i>biology</i>	Carleen Stoskopf, <i>public health</i>
Asa Gustafsson, <i>biology</i>	Mark Sussman, <i>biology</i>
Anita Harbert, <i>social work</i>	Jennifer Thomas, <i>psychology</i>
David Hayhurst, <i>engineering</i>	William Tong, <i>chemistry</i>
Richard Hofstetter, <i>political science</i>	Constantine Tsoukas, <i>biology</i>
Melbourne Hovell, <i>public health</i>	Elizabeth Waters, <i>biology</i>
George Jiracek, <i>geological sciences</i>	Fridolin Weber, <i>physics</i>
Elizabeth Klonoff, <i>psychology</i>	John Weeks, <i>geography</i>
	Susan Woodruff, <i>social work</i>
	Tao Xie, <i>computer science</i>

SPONSORS

The following sponsors funded many outstanding programs conducted by SDSU faculty and staff. Without sponsor resources, these programs and their significant contributions to our future could not occur. We thank our sponsors for their multi-faceted support, including their ideas, commitment, partnership, and enthusiasm, in addition to vital financial resources.

Federal Agencies

Administration on Children, Youth and Families
Air Force Office of Scientific Research
Air Force Research Laboratory
Army Research Laboratory
Bureau of Land Management

Camp Pendleton Civilian Leadership Development
Centers for Disease Control and Prevention
Centers for Medicare and Medicaid Services
Health Resources and Services Administration
Los Alamos National Laboratory
NASA Headquarters
National Aeronautics and Space Administration

National Cancer Institute
National Center for Research Resources
National Center on Minority Health and Health Disparities
National Endowment for the Humanities
National Eye Institute
National Heart, Lung and Blood Institute
National Institute of Allergy and Infectious Diseases