$20 Million Award Supports Regional Health Disparities Research, Partnerships

The National Institutes of Health award is one of the largest in university history, and will support the creation of the SDSU HealthLINK Center. The center will build collaborative partnerships between the university and community health entities and dramatically enhance research infrastructure at the university, bolstering critical health research and services and improving the well-being of the region’s most underserved populations. Read more.
Former NSF Director: SDSU a National Model

Rita Colwell, the first female leader of the National Science Foundation, praised SDSU during a recent campus visit as a beacon of diversity and a model for U.S. higher education. Colwell visited campus Oct. 29-30 to emphasize the importance of diversity in science. Read more.

Understanding the Biology of Autism

A team of San Diego State University researchers, studying MRI scans of school-age children’s brains, found unique patterns of neural communication in children with Autism Spectrum Disorder, indicating the presence of biological markers in the brain in children with autism. Read more.

The Academy Awards of Research
The Secret of Super-strong Webs is Traced to Tiny Structures in Spider Glands

The Washington Post considers research by analytical chemist Gregory Holland, who studies the molecular structure of spider silk and whose work could aid in the development of an artificial version that would have unlimited practical applications.

Oldest known footprints in Grand Canyon

National Geographic reports on the discovery and study—in part by SDSU geologist Mario Caputo—of 310-million-year-old reptilian footprints in the Grand Canyon.

The iGen Shift: Colleges Are Changing to Reach the Next Generation

The New York Times talks to professor Jean M. Twenge about her research on America's current crop of college students, the most ethnically diverse generation in history.

These Flatworms Can Regrow A Body From A Fragment. How Do They Do It And Could We?

NPR discusses the flatworm's ability to regenerate with SDSU neurobiologist Ricardo Zayas.
BioCom Life Science Association of California is offering a one-day course designed to help basic scientists become more competitive for industry jobs. Consider encouraging graduate students to attend the training on Dec. 7 in La Jolla.

ZIP Launchpad, SDSU's start-up incubator, is accepting

SDSU's Research Horizons series highlights early career faculty and their burgeoning research projects.
applications from students, faculty and staff looking for help starting businesses.

Let your students know that registration for the 2019 Student Research Symposium, scheduled for March 1-2, is now open. Last year more than 500 students presented their research!

Recent Grants

**Schulze, Mathias / Brown, Christopher P**  
California Subject Matter Project – CSMP  
University of California Office of the President  
$17,500.00  
College of Arts & Letters

**Imazeki, Jennifer**  
Transforming College Teaching: Statewide Implementation of the Faculty Learning Program  
University of California at Berkeley  
$44,203.00  
College of Arts & Letters

**Degeneffe, Charles**  
Rehabilitation Long-Term Training Program-Vocational Rehabilitation Counseling  
DED Office of Special Education/Rehabilitation Services  
$200,000.00  
College of Education

**Hampton, Nan / Sax, Caren**  
Raising the Bar: Long Term Training in Rehabilitation Counseling  
DED Office of Special Education/Rehabilitation Services  
$200,000.00  
College of Education

**Olney, Marjorie**  
Psychiatric Rehabilitation Concentration and Certificate Project  
DED Office of Special Education/Rehabilitation Services  
$149,999.00  
College of Education

**Sax, Caren**  
EFRC Family Empowerment Center 18/19  
California Department of Education  
$255,481.00  
College of Education

**Sax, Caren**  
EFRC Poway Alternative Dispute Resolution 18/19  
Poway Unified School District  
$10,000.00  
College of Education

**Sax, Caren / Hampton, Nan**  
Collaborative for Distance Education in Rehabilitation: Comprehensive System of Personal Development Rehabilitation Training
Tucker, Mark
Arizona Comprehensive Statewide Needs Assessment Project
Arizona Department of Economic Security
$82,424.00
College of Education

Dickson, Kelsey
Adapting an ASD Executive Functioning Intervention for Implementation in Children's Mental Health Services
DHHS National Institute of Mental Health
$168,472.00
College of Education

Park, Vicki
Co-constructing Continuous Improvement for Equity and Excellence: The Role of Adaptive Assistance Partners for Organizational Learning in Low-Performing Schools
Spencer Foundation
$31,088.00
College of Education

Lamb, Lisa / Soto, Melissa M
San Diego Math Project - CSMP
University of California Office of the President
$24,000.00
College of Education

Verbyla, Matthew L
Human-associated HF183 Bacteroides 16S rRNA genetic marker at NCWRP and the Pure Water Facility
Trussell Technologies
$4,996.00
College of Engineering

Aksanli, Baris
NRI: FND: COLLAB: Distributed Bayesian Learning and Safe Control for Autonomous Wildfire Detection
National Science Foundation
$75,000.00
College of Engineering

Camacho, Joaquin
EAGER: Flame-Assisted Chemical Vapor Deposition for Energy Storage Electrode Fabrication
National Science Foundation
$79,999.00
College of Engineering

Katira, Parag
Heterogeneous Cancer Cell Mechanics Differentially Drives Mechanosensing and Migration
National Science Foundation
$191,607.00
College of Engineering

Naseradinmousavi, Peiman
Decentralized Adaptive and Extremum Seeking Control of High-DOF Manipulators with Image
Processing
National Science Foundation
$230,377.00
College of Engineering

Oren, Eyal
A randomized cross-over clinical trial of unfiltered cigarettes
California Tobacco Related Disease Research Program
$631,324.00
College of Health & Human Services

Pan, Amy
Data to Action - Reducing Child Injury and Death
The Children's Initiative
$16,229.00
College of Health & Human Services

Tucker-Tatlow, Jennifer
SB Org Health Series Training FY 18-19
Casey Family Programs
$12,172.00
College of Health & Human Services

Friedrichs, Charles
Southern Counties Arts Project (CSMP)
University of California Office of the President
$52,000.00
College of Professional Studies and Fine Arts

House, Carrie D
Role of NF-kB signaling in supporting ovarian cancer tumor-initiating cells responsible for cancer recurrence
DHHS National Cancer Institute
$249,000.00
College of Sciences

Long, Jeremy D
Cooperative research and training program concerning the resources of Cabrillo National Monument for students at San Diego State University
DOI National Park Service
$17,026.00
College of Sciences

Stumph, William
High-Speed Preparative Centrifuge and Rotor
California Metabolic Research Foundation
$27,000.00
College of Sciences

Olsen, Kim
Phase : Enhanced Loss Calculation Based on 3D Ground Motion Calculations for the Pacific Northwest
Willis Limited
$65,386.00
College of Sciences
Nollett, Kenneth M
Quantum Monte Carlo and fewer-body approaches to scattering, reactions, and related properties of nuclei
US Department of Energy
$51,000.00
College of Sciences

Hushen, W Timothy
Student Support Services
DOD Space and Naval Warfare Systems Command
$18,918.00
Office of Graduate and Research Affairs

Hushen, W Timothy
Student Support Services
DOD Space and Naval Warfare Systems Command
$945.00
Office of Graduate and Research Affairs

Stow, Douglas
Landscape-Level Measurements of and Controls on Wildfire Spread Rates
NSF Division of Social Behavioral and Economic Research
$48,160
College of Arts & Letters

Herman, Thomas
Evaluation of First 5 Targeted Home Visiting Program
South Bay Community Services
$42,000
College of Arts & Letters

Herman, Thomas
South Region Evaluation: First 5-Healthy Development Services for Children
South Bay Community Services
$79,344
College of Arts & Letters

Schulze, Mathias / Brown, Christopher P
Iraqi Language Immersion
US Department of Defense
$78,940
College of Arts & Letters

Schulze, Mathias / Brown, Christopher P
Levantine Immersion Program
US Department of Defense
$418,797
College of Arts & Letters

Schulze, Mathias / Brown, Christopher P
Pashto Immersion Project
US Department of Defense
$85,872
College of Arts & Letters

Schulze, Mathias / Brown, Christopher P
Persian Farsi Immersion Program
US Department of Defense
$170,680
College of Arts & Letters

**Tucker, Mark**
Intra-Agency Master Agreement for Employment Partnership Training
California Department of Rehabilitation
$660,000
College of Education

**Hall, Laura / Turan-Qian, Yasemin**
Project PIPELINES - Preparing Intervention Personnel as Early Learning Navigators using Evidence-based Strategies
DED Office of Special Education/Rehabilitation Services
$149,879
College of Education

**Suhrheinrich, Jessica**
Exploring Multi-level System Factors Facilitating Teacher Training and Implementation of EBP
University of California at Davis
$107,347
College of Education

**Myers-Bowman, Karen S**
San Diego CARES Program
YMCA of San Diego County
$1,065
College of Education

**Kumar, Sunil**
Quality-of-Autonomy (QoA)-Oriented and QoS-Aware Transport and Routing Protocols for Contested Airborne Swarm Networks
DOD Air Force Research Laboratory
$100,000
College of Engineering

**Zink, Thomas A**
San Clemente Island Botanical Program Implementation, NALF San Clemente Island, Naval Base Coronado, California.
DOD Army Corps of Engineers
$368,719
College of Engineering

**Sharma, Satish**
Design and Development of Ku-band Phased Array Antenna Network Using Heat Sink Radiator and Reflector Element for Beam Steering Applications
DOD Space and Naval Warfare Systems Command
$179,916
College of Engineering

**Mladenov, Natalie**
Increasing Preparedness in the San Diego River Watershed for Potential Contamination Events
San Diego River Conservancy
$187,115
College of Engineering

**Hovell, Melbourne**
Women, Infants and Children
Kiene, Susan M
Development and Pilot Testing of a Combination Intervention to Reduce Heavy Drinking and Improve HIV Care Engagement among Fisherfolk in Uganda
DHHS National Institute on Alcohol Abuse and Alcoholism
$191,422
College of Health & Human Services

Asmus, Lisa
Minority AIDS Initiative (MAI) Integrated Care Coordination Program Evaluation
Family Health Centers of San Diego
$9,000
College of Health & Human Services

Asmus, Lisa
Project Pride Evaluation Services
Family Health Centers of San Diego
$7,000
College of Health & Human Services

Arredondo, Elva
Linking Churches with Parks to Increase Physical Activity Among Latinos
RAND Corporation
$22,376
College of Health & Human Services

Tucker-Tatlow, Jennifer / Baum, Jennifer N
Cultural Competency Academy FY 18/19
San Diego County Health and Human Services Agency
$140,725
College of Health & Human Services

Hornberger, Steven
Age Friendly Communities
The San Diego Foundation
$69,000
College of Health & Human Services

Riley, Edward / Thomas, Jennifer
Congress of the International Society for Biomedical Research on Alcoholism
DHHS National Institute on Alcohol Abuse and Alcoholism
$74,502
College of Sciences

Zink, Thomas A
Dune Restoration at Naval Base Coronado
DOD US Navy
$18,496
College of Sciences

Zink, Thomas A
Naval Base Coronado Dune Restoration and Sensitive Plant Species Surveys
DOD US Navy
$36,580
College of Sciences
Long, Jeremy D
Rocky Intertidal Non-native Species Surveys and Grazing Experiments in Support of the Black Abalone on Naval Auxiliary Landing Field San Clemente Island
DOD US Navy
$132,500
College of Sciences

Xu, Xiaofeng
Data Model Integration for Methane (CH4) at the S1 Bog and CH4 Module Incorporation into the Energy Exascale Earth System Model
DOE Oak Ridge National Laboratory
$37,500
College of Sciences

Hedin, Marshal C
Resolving the species status of Texella reyesi (Opiliones, Phalangodidae) using sequence capture of ultra-conserved elements
DOI United States Fish and Wildlife Service
$11,000
College of Sciences

Baxter, Susan
Type II: California State University Innovation Site
NSF Dir for Computer and Information Science and Engineering
$100,000
College of Sciences

Olsen, Kim / Roten, Daniel
PREEVENTS Track 2: 3D Nonlinear Simulation of Large Earthquakes on the Southern San Andreas Fault
NSF Directorate of Geosciences
$180,407
College of Sciences

Reinholz, Daniel
Collaborative Research: Expanding Access: Furthering a Network of Diversity-Focused Programs in the Physical Sciences
National Science Foundation
$22,543
College of Sciences

Quimby, Robert
FUV Spectral Evolution of a Superluminous Supernova
Space Telescope Science Institute
$14,195
College of Sciences

Grotjahn, Douglas / Smith, Diane
New tools and methods for measuring water oxidation catalyst viability
US Department of Energy
$152,314
College of Sciences

Reinholz, Daniel
Departmental Action Teams: Sustaining Improvements in Undergraduate STEM Education Through Faculty Engagement
University of Colorado Boulder
$30,117
College of Sciences

Yeh, May
Personalizing Parent Training Interventions for Culturally Diverse Families
University of San Diego
$105,306
College of Sciences

Boarman, William
Analysis of Common Raven Data
Upgrade Professional Solutions Corporation
$14,320
College of Sciences

Larson, Lance
Defensive Cyberspace Operations Research, Development, Testing, Engineering, Integration, Maintenance, and Production Support
Vector Planning & Services, Inc
$919
College of Sciences

Segall, Anca
Integrative Genomics Approach to Computational Assessment of Threats (IGACAT)
Virginia Polytechnic Institute and State University
$10,502
College of Sciences

Ayala, Guadalupe X / Wells, Kristen J
SDSU HealthLINK Center for Transdisciplinary Health Disparities Research
DHHS Nat Center on Minority Health and Health Disparities
$4,364,734
Interdisciplinary Programs

An, Li / Stow, Douglas / Lewison, Rebecca
CNH-L: People, Place, and Payments in a Complex Human-Environment System
National Science Foundation
$1,450,000
Interdisciplinary Programs

Castaneda, Sheila F / Talavera, Gregory / Gallo, Linda
Nightly Fasting and Eating Patterns and Cardiometabolic Risk in Hispanic/Latina Women
University of California at San Diego
$13,526
Interdisciplinary Programs

Starr, Pamela
Workability IV
California Department of Rehabilitation
$96,000
Student Affairs

Rikard, Jennifer
Great Plays Grant
Responsible Retailing Forum
$10,000
Student Affairs
Stow, Douglas
Follow-on Study: Shrub Cover Monitoring and Sensitivity Analyses of Vegetation Community Maps for San Clemente Island
DOD Army Corps of Engineers
$226,861
College of Arts & Letters

Guang, Lei
China Data Lab: Understanding China’s Changing Politics, Society and Economics in the Information Age
University of California at San Diego
$34,085
College of Arts & Letters

Vasquez Urias, Marissa / Harris, Frank / Wood, J. Luke
CCEAL - Cabrillo Community College
Cabrillo College
$75,000
College of Education

Harris, Frank / Wood, J. Luke / Vasquez Urias, Marissa
Advancing Educational Equity for Community College Men of Color
College Futures Foundation
$150,000
College of Education

Sax, Caren
Customized Employment Training - Idaho VR’s Portion
Idaho Division of Vocational Rehabilitation
$11,484
College of Education

Johnson, Joseph F
Educational Leadership High-Performing Schools Equity Audit
Iftin Charter School
$26,000
College of Education

Garoma, Temesgen
A New Approach for Seawater Desalination
Metropolitan Water District of Southern California
$10,000
College of Engineering

Youssef, George
In-situ Characterization of the Dynamic Behavior of Impact Mitigating Polymers
US Department of Defense
$594,883
College of Engineering
The banner image this week is of students working in a teaching lab at the new Engineering and Interdisciplinary Sciences Complex.