

PROGRAM REPORT

2016 - 2017



Colorado State University

TODOS SANTOS CENTER

BAJA CALIFORNIA SUR, MÉXICO



FALL 2017



THE COLORADO STATE UNIVERSITY TODOS SANTOS CENTER has been open for nearly two years now, serving the students and faculty of Colorado State, the Todos Santos community, and the greater Baja California Sur region. It is with great pride that we take this opportunity to reflect on the impact of the programs offered through our Todos Santos Center. Colorado State has strived to create global citizens by allowing our students to have a meaningful international experience in Baja California Sur, as well as to create bridges of cultural understanding by bringing educational and wellness opportunities to the people of Todos Santos, who have embraced our University's efforts in creating this center.

We are proud to report a 60 percent increase of Colorado State students participating in trips to Todos Santos, and 94 visits from Colorado State faculty and staff in conjunction with 52 educational programs and research trips to the center. More exceptional is the level of engagement we have experienced with the people of Todos Santos and the greater Baja California Sur region: More than 4,000 people from the local community have attended Colorado State workshops and events, and more than 1,000 animals have been helped through vaccinations and spay/neuter clinics staffed by Colorado State veterinary students.

These numbers demonstrate the academic and community efforts that have taken place through the Colorado State Todos Santos Center, but we know the impact is much greater. Todos Santos visitors have gained profound and lasting experiences, whether through studying wildlife in an ecosystem far from Colorado, participating in a Kids Do It All theatre production, or sharing innovative composting techniques while learning agricultural methods refined through generations of family farming. The beauty and environment of Todos Santos inspire unforgettable learning opportunities for all involved.

We are grateful to the community of Todos Santos for partnering with us, and we look forward to deepening our connection in the coming years through expanded programming and enhanced interactions among learners.

Sincerely,

Dr. Tony Frank

President, Colorado State University

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FY 17

JULY 1, 2016 - JUNE 30, 2017

4,166

PEOPLE FROM THE LOCAL
COMMUNITY ATTEND CSU
WORKSHOPS AND EVENTS

138

STUDENT
VISITS

52

PROGRAMS AND
RESEARCH VISITS

94

FACULTY AND
STAFF VISITS

1,127

ANIMALS HELPED
THROUGH VACCINATIONS,
SPAY/NEUTER, ETC.

50+

COMMUNITY
PARTNERS

2,300+

K-12 STUDENTS
ENGAGED

430

STUDENT
CREDIT HOURS

864

HOURS OF ENGLISH
INSTRUCTION

CSU AND CSURF ADVISORY MEMBERS, FACULTY, AND PROGRAM LEADERS

OUR TEAM

Dr. Denise Apodaca
 Dr. Larissa Bailey
 Donna Baily
 Dr. Chris Bareither
 Dr. Kevin Bestgen
 Julie Birdsall
 Dr. Daniel Bowan
 Kayla Brown
 McKenzie Campbell
 Dr. Will Clements
 Dr. Jim Cooney
 Dr. Paul Doherty
 Dr. Lisa Dysleski
 Dr. Melissa Edwards
 Dr. Addy Elliott
 Scott Farley
 Dr. Oscar Felix
 Sheila Ferguson
 Mark Gill
 Mariana Gonzalez Guzman
 Thom Hadley
 Kathleen Henry
 Dr. Kim Hoke
 Nancy Hurt
 Dr. Kate Huyvaert
 Jason Johnson
 Zach Johnson
 Aimee Jones
 Dr. Brian Jones
 Dr. Shane Kanatous
 Kim Kita
 Dr. Jen Krafchick
 Dr. Suellen Melzer
 Dr. C.W. Miller
 Tom Milligan
 Dr. Cody Minor
 Dr. Rick Miranda
 Teresa Egea Molines
 Dr. Tai Montgomery
 Tiana Nelson
 Gabriela Ocadiz
 Amy Parsons
 Dr. Graham Peers
 Aines Castro Prieto
 Dr. James Pritchett
 Dr. Andrea Purdy
 Ann Randall
 Amy Rex
 Dr. William Sanford
 Dr. Julie Savidge
 Dr. Daniel Sloan
 Dr. Bruno Sobral
 Dr. Danielle Straatmann
 Laura Thornes
 Anne Van Arsdall
 Seth Webb
 Dr. Dana Winkelman
 Dr. Grace Wright

THE CSU TODOS SANTOS CENTER is truly a collaborative effort, bridging cultures and inspiring the cultivation of generations of global citizens and thriving communities through collaboration, experience, and exchange of knowledge.

Thank you to our faculty partners, whose programs you will read about in the upcoming pages; to all of the students from the United States and Mexico who participate in courses and research; to the administrators and leaders; and to the growing network of Baja California Sur community partners.

The three legal entities of Colorado State University, Colorado State University Research Foundation, and Colorado State University Research Foundation Mexico Civil Association partner to deliver the programs at the CSU Todos Santos Center. Through the legal structure of the CSURF Mexico AC, CSU answers the call of the 21st-century land-grant university by leveraging high-impact practices in education and creating meaningful long-term opportunities and relationships across borders to address global challenges. The CSURF Mexico AC is a Mexican non-profit social assistance organization with an educational focus, hosts programs and research from CSU, functions as a hub for community engagement in Todos Santos, and features various local workshops and events for Baja California Sur residents. The CSU Todos Santos Center's growing success is attributed to the efforts, advising, guidance, and participation of the following:

The CSU Board of Governors, the CSURF Board of Directors, Joint CSU-CSURF Steering Committee, CSU Education Abroad, college deans, the Office of International Programs, and Baja California Sur partners and advisers.

The CSURF Mexico AC is proud to be recognized by Mexico's Secretary of Government as an exemplary employer.

THANK YOU TO OUR LOCAL PARTNERS

Activities at the CSU Todos Santos Center are made possible through partnership and participation from a growing network in Baja California Sur, including universities, government agencies, nonprofit organizations, public and private schools, citizen advisers, and others. Thank you to all program partners and participating members of the regional community:

Agricole
 Centro Cultural de Todos Santos
 Centro de Estudios Científicos y Tecnológicos (CECyT)
 Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)
 Centro de Investigaciones Biológicas del Noreste (CIBNOR)
 Centro de Salud Todos Santos
 Centro Interdisciplinario de Ciencias Marinas (CICIMAR)
 Centro Municipal de Atención Canino (CEMAC)
 Comisión Nacional del Agua (CONAGUA)
 Community Members of BCS
 Delegación Todos Santos
 Ejido El Pescadero
 Ejido Todos Santos
 Escuela Pacífica
 Gobierno de Baja California Sur
 Instituto Tecnológico de La Paz (ITLP)
 Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)
 Internado
 Jazamango
 Jóvenes Líderes de Baja California Sur
 Livestock Association
 Los Cabos Humane Society
 Me Interesa Ayudar A Un Gatito (MIAU Gatito)
 Other K-12 Public Schools
 La Palapa Society
 El Pescadero School
 Ponguinguola
 Pueblo Mágico Committee
 Punto Verde
 Salas Family
 Hotel San Cristóbal
 Secretaría de Turismo del Estado de Baja California Sur
 Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT)
 Sierra School
 Sistema Nacional para el Desarrollo Integral de la Familia (DIF)
 Sistemas Naturales y Desarrollo (SINADES)
 Subdelegación del El Pescadero
 Todos Educando
 Todos Santos Eco Adventures (TOSEA)
 Todos Santos Fishermen Cooperativa
 Todos Santos Private Transportation
 Tres Santos
 Todos Santos Montessori Learning Center
 Universidad Autónoma de Baja California (UABC)
 Universidad Autónoma de Baja California Sur (UABCS)
 Universidad Autónoma de Yucatán (UADY)
 Universidad Mundial
 Universidad Pedagógica Nacional (UPN)
 University of Utah



FIELD MARINE BIOLOGY

Field Marine Biology exposed CSU students to the incredible diversity of marine life found around Todos Santos and the Peninsula of Baja California Sur. Seven CSU students spent 2.5 weeks exploring a range of organisms in the ocean, from plankton to sea lions. Students also had the opportunity to learn from Todos Santos fishermen and interact with and host workshops for local students.



FISH, WILDLIFE & CONSERVATION BIOLOGY WINTER BREAK PROGRAM

The annual two-week Fish, Wildlife, and Conservation Biology program included excursions and experiential learning opportunities in Todos Santos and La Paz, and along the beaches and deserts of the region. Twenty-two students and three faculty members visited the diverse ecosystems of the Pacific Ocean, Sea of Cortez, estuaries, deserts, and mountains to learn about the natural history of fish and wildlife species, understand wildlife management and conservation history, and identify common and contrasting wildlife management practices.



FISH, WILDLIFE & CONSERVATION BIOLOGY BIOBLITZ

Colorado State University students in the Fish, Wildlife, and Conservation Biology semester education abroad program at the CSU Todos Santos Center hosted the program's first BioBlitz for students within the local community. The BioBlitz – a race to identify as many species of plants, animals, and other organisms as possible in a short time period – allowed an interactive educational opportunity for the more than 500 local student participants, ranging from elementary to high school. Fifteen CSU students crafted experiential learning activities and hosted the event with students from PACE, a science education outreach program at CIBNOR, one of CSU's educational partners in Mexico.

FISH, WILDLIFE & CONSERVATION BIOLOGY SEMESTER PROGRAM

Sixteen fish, wildlife, and conservation biology students lived and learned together at CSU's Todos Santos Center over the course of the spring semester. Classroom-based lectures focused on the theory and approaches used to study fish and wildlife populations and the marine and desert ecosystems they inhabit in and around Todos Santos, Baja California Sur, Mexico. Field excursions, hands-on learning in the field, and students' own research projects provided high-impact learning opportunities that promoted integration of principles in conservation biology and fish and wildlife ecology across the curriculum, ultimately leading to better mastery of learning objectives.





COLLEGE OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES STUDENT EXTERNSHIP PROGRAM

The Veterinary Student Externship Program engages fourth-year CSU veterinary students in two-week educational and cultural exchange opportunities in Baja California Sur. Throughout the year, eight teams of CSU students provided surgical and medical support to local shelters, participated in spay/neuter campaigns, and observed clinical cases at the UABCS Veterinary Teaching Hospital. The teams participated in nine community spay/neuter campaigns, providing more than 700 free surgeries to the public. In addition, CSU supports and organizes a biannual and collaborative spay/neuter campaign with veterinarians and veterinary students from Todos Santos, La Paz, and the United States. Two veterinary students from UABCS also spent two months learning at the CSU James L. Voss Veterinary Teaching Hospital in Fort Collins.

COLLEGE OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES RESEARCH PROGRAMS

The College of Veterinary Medicine and Biomedical Sciences conducts two animal-based research projects in Todos Santos. One is a multiyear research study in collaboration with public health officials and veterinarians to determine the prevalence of tick-borne disease among pets in the region. The 2016 research provided a case study in understanding and interrupting cycles of zoonotic diseases, which infect people and animals. In a second study during the Spring 2017 semester, seven CSU teams of veterinary students visited local ranch families and carried out a survey to understand the needs and challenges of subsistence ranching in the region. At the end of the semester, CSU hosted an International Conference of Health and Nutrition of Livestock, for local ranchers, with speakers from CSU, UABCS, and UADY.

COLLEGE OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES OUTREACH PROGRAMS

The Veterinary Student Externship Program introduced two outreach programs focusing on information exchange with the community. The first project was an after-school education program for youth interested in animal care and well-being. Twenty high school students attended weekly lectures from professionals, learning about the many ways one can work with animals, from dogs and cats, to cattle, sea lions, and seabirds. At the completion of the semester, several student groups presented animal conservation projects to their families and the public. The veterinary team also participated in the creation of a support and educational network for animal rescue organizations within Baja California Sur. These biweekly lectures shared information on best practices for health and care of dogs and cats in rescue and adoption settings.





ANATOMY AND PHYSIOLOGY

The CSU Anatomy and Physiology program took eight students to teach basic anatomical and physiological concepts to K-6 students in Todos Santos and El Pescadero. More than 880 local students and community members engaged in workshops about circulatory, respiratory, vestibular, visual, musculoskeletal, gastrointestinal, hormonal, and nervous systems. The CSU team partnered with faculty and undergraduate students from Universidad Pedagogica Nacional in La Paz.



LOCAL ENGLISH CLASSES

In response to a need identified in the 2015 Community Needs Assessment, and with support from donor funding, CSU began offering English classes to residents in the summer of 2016. The CSU Todos Santos Center English courses were held both at the CSU Todos Santos Center (for adult learners), and also in the nearby city of El Pescadero for students of all ages. More than 95 people from the Baja California Sur region enrolled in the first cohort of classes, and the program has continued to a second year.



ONE HEALTH IN THE AMERICAS WORKSHOP

In November 2016, researchers traveled from around the United States and the countries of the Americas to Todos Santos to share best practices and discuss the formation of a One Health in the Americas Network. The conference brought together key researchers from CSU, La Paz, and around the Americas to begin to foster research connections and ideations. This led to publication of an article titled "International Partnerships Contribute to a One Healthier Community in Baja California Sur, Mexico" in the *International Journal of Health, Wellness, and Society*. The co-authors will be guest presenters at the second annual One Health in the Americas workshop in Cuba.



SUMMER RESEARCH COURSE

CSU students and faculty from the Department of Clinical Sciences collaborated with the Centro de Investigaciones Biológicas del Noroeste S.C. in La Paz. The CSU research team was designing inhibitors against several enzymes for the clinical management of: colorectal, hepatocellular, and breast carcinomas; B-cell leukemias; and Zika virus. In addition to scientific data experiments, team members worked on their Spanish language skills, embraced the cultural immersion offered by an extended stay at the Todos Santos Center, and presented a final report in Spanish to CIBNOR. This course was funded by a National Science Foundation grant.

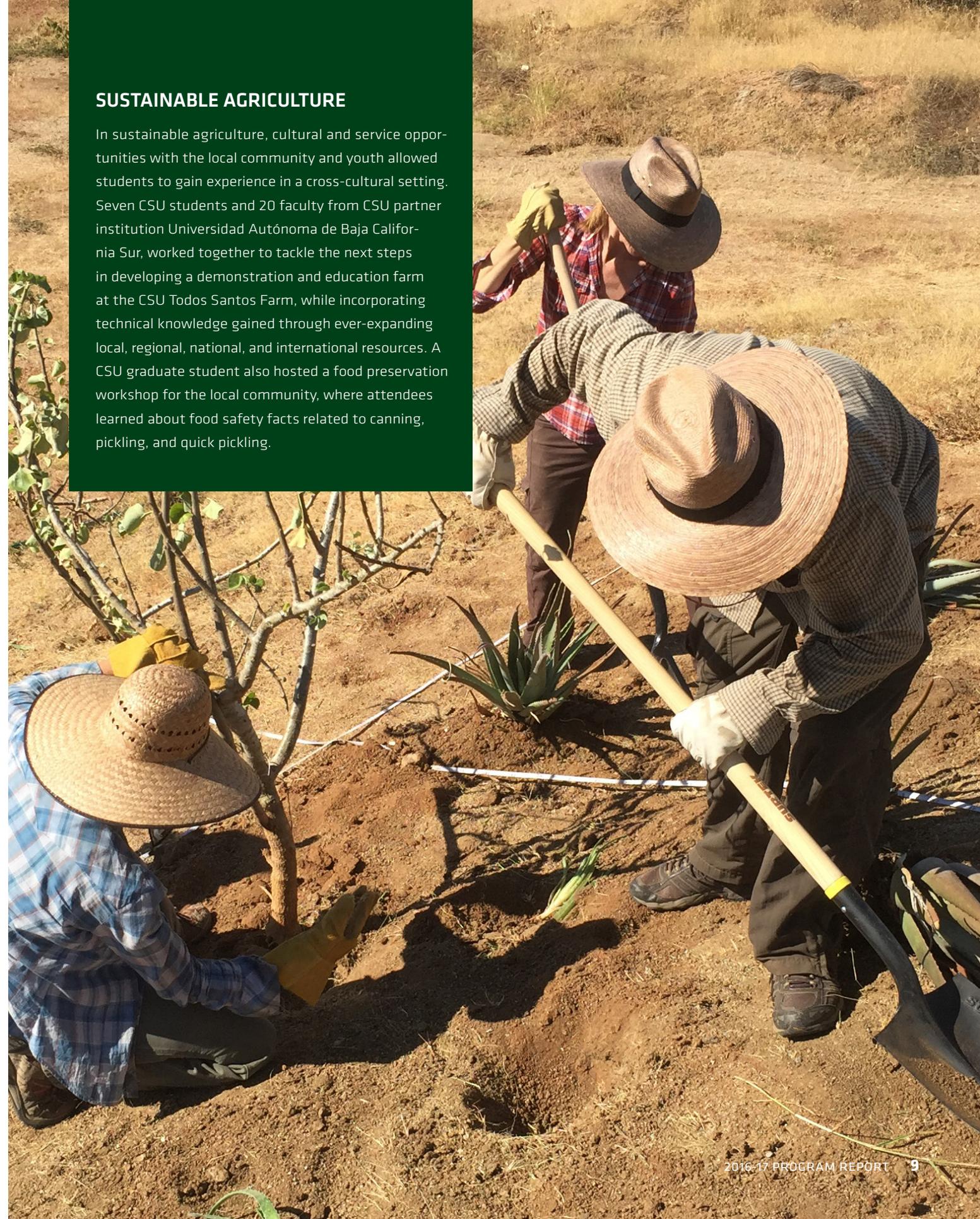


COMPUTATIONAL BIOLOGY AND GENOMICS

The CSU Department of Biology conducted a second one-week workshop on computational biology and genomics. A dozen participants came to the CSU Todos Santos Center from local research institutions for the workshop, which focused on training in the core computational tools necessary for analyzing genomic data in the modern biological sciences.

SUSTAINABLE AGRICULTURE

In sustainable agriculture, cultural and service opportunities with the local community and youth allowed students to gain experience in a cross-cultural setting. Seven CSU students and 20 faculty from CSU partner institution Universidad Autónoma de Baja California Sur, worked together to tackle the next steps in developing a demonstration and education farm at the CSU Todos Santos Farm, while incorporating technical knowledge gained through ever-expanding local, regional, national, and international resources. A CSU graduate student also hosted a food preservation workshop for the local community, where attendees learned about food safety facts related to canning, pickling, and quick pickling.





LITTLE SHOP OF PHYSICS

In January, the Little Shop of Physics, a program of the College of Natural Sciences, traveled to the Colorado State University Todos Santos Center to spread enthusiasm for science. The group landed in Mexico with seven people – and eight trunks that held more than 60 hands-on science experiments developed in their campus lab. In just four days, the group worked with more than 1,000 students from a dozen schools in Todos Santos and the nearby town of Pescadero as well as members of the local community at two public events.



KIDS DO IT ALL

Since 2014, CSU's School of Music, Theatre, and Dance has hosted a Kids Do It All theatre camp in Todos Santos for children from Colorado and from the local community. The annual CSU student-led effort in Todos Santos is an adaptation of a long-standing and popular music-theatre program, and the Todos Santos version of the program creates a bilingual and bicultural experience for kids ages 7-12. More than 50 children participate in the camp, and the students conclude the week by performing a play for the community.



CSU-PUEBLO ECOTOURISM

Colorado State University – Pueblo students enjoyed their spring break immersed in an ecotourism course in Baja Mexico. Highlights included a stay at the CSU Todos Santos Center, cultural exchange with alternative tourism students at the Autonomous University of Baja California Sur, a three-day sea-kayaking trip to Espiritu Santo Island, surfing at El Cerritos Beach, and a visit with students of the Todos Educando Elementary School.



FAMILY ADVENTURE WEEK

A group of CSU employees and their family members traveled to Todos Santos for the inaugural Family Adventure Week. Adventures included swimming with whale sharks and sea lions, sea kayaking, paddle boarding, snorkeling, fishing, surfing, and camping on an island in the Sea of Cortez. Cultural and educational activities included a lesson on wildlife conservation issues in Baja California Sur, a history tour of Todos Santos, and a visit to the foothills of the Sierra de la Laguna Mountains to learn about local ranch family livelihoods.



YOUTH AND FAMILY LEADERSHIP

During two weeks in the summer, 14 CSU Health and Human Sciences students engaged with 200 youth and families in conjunction with the CSU Todos Santos Center. Programming focused on opportunities for youth and family engagement, identified by the 2015 Community Needs Assessment. Activities included cultural and language orientation and immersion, reflection of service experience, and collaboration with local professionals. CSU students participated in dialogues and other assessment activities, as well as developed and delivered interactive programming on topics relevant to students in local schools.



WATER RESEARCH

Water research conducted by Dr. Bill Sanford and a CSU graduate student will result in the development of a numerical model of the Todos Santos aquifer system. This model will be capable of predicting how increases in water demands will affect the supply of fresh water. Dr. Sanford is working in collaboration with the Mexican government's National Commission on Water (Comisión Nacional del Agua), the Monterrey Institute of Technology and Higher Education (Instituto Tecnológico y de Estudios Superiores de Monterrey), and students from CSU, UABCS, Tecnológico de Monterrey: Inicio, and Universidad Mundial.



WASTE MANAGEMENT

A Community Needs Assessment conducted by Colorado State University in June 2015 highlighted the lack of integrated solid waste management in Todos Santos. To better understand the current situation and what could feasibly be achieved to improve it, a three-person waste management team embarked on an initial assessment trip, meeting with Alex Miró of Punto Verde recycling, the Secretary General of Todos Santos, and several professors and solid waste professionals in La Paz.

THE COLORADO STATE UNIVERSITY TODOS SANTOS CENTER

is proud to work with the Baja California Sur community and serve as an extension for University education and outreach. The center will continue to bring new programming, including Interior Design, Service Learning, Oceanography, and a Student Leadership Exchange. CSU will also continue to expand opportunities with CSU Pueblo, other universities, and educationally focused user groups. For the latest information on programs and events at the CSU Todos Santos Center, please visit todossantos.colostate.edu.

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VISION: To cultivate generations of global citizens and thriving communities through collaboration, experience, and exchange of knowledge.

VISIÓN: cultivar generaciones de ciudadanos globales y comunidades prósperas a través de la colaboración, las experiencias, y el intercambio de conocimientos.

STATE YOUR PURPOSE

· THE CAMPAIGN FOR COLORADO STATE UNIVERSITY ·

For more information, visit: todossantos.colostate.edu.



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An equal-access and equal-opportunity University