



Bee Campus USA Annual Report Pollinator Conservation & Education 2019



California State University Channel Islands Camarillo, California

EDUCATION & OUTREACH



Former CSUCI Apiculture students spreading awareness and showcasing native bees and beekeeping equipment to local youth and their families at Oxnard's first annual Insect Fair



Students and faculty at the Harvest Festival featuring bee themed carved pumpkins, a honey tasting stand, and Bee Club members



Agriculture program showcasing their observation hive & offering honey to taste to the CSUCI donors and guests attending the President's Dinner



Bee themed pumpkin carved by a CSUCI student at the Harvest Festival



Students and faculty of CSUCI's agriculture program hosting a training workshop for CA Dept. of Food and Agriculture's future Hive Inspectors on how to inspect honey bee colonies.

Bee Garden Day (4/17/2019), President's Circle Event (4/22/2019), Oxnard Insect Fair (6/1/2019), Peace Day (9/17/2019), President's Dinner - Agriculture Showcase (10/6/2019), Workshop for the California Department of Food and Agriculture (10/22/2019 & 10/23/2019), Boo Bash (10/26/2019), Harvest Festival (11/6/2019), Native Bee Presentation (11/21/2019)

Dr. Ruben Alarcon, a Professor of Biology at CSUCI, regularly gives presentations to professional organizations, local farms, and the general public on the importance of bees and how to protect pollinators at locations off campus.

POLLINATOR HEALTH & HABITAT

In April 2019, the Facilities Services team and CSUCI students converted a large planter bed outside Sierra Hall to a pollinator garden comprised primarily of succulents. The garden is located along one of the main campus roads, providing increased visibility to CSUCI's Bee Campus USA initiatives. This drought tolerant, pollinator friendly garden is a campus favorite and is now the new campus standard for planter refresh projects. Additionally, throughout 2019, Facilities Services staff, student assistants, and volunteers helped to plant 57 native trees and maintain more than 6,000 trees throughout campus.



this picture displays the pollinator garden comprised of succulents near our LEED compliant building, Sierra Hall



this picture displays the two pollinator gardens built along the ramp of Sierra Hall, comprised primarily of succulents

SERVICE LEARNING



Over the summer, 10 student volunteers helped to plant 100 plants to form a pumpkin patch. In the fall, more than 300 pumpkins were harvested!



We often give out samples of honey collected from our campus bees during Bee Campus related events. The honey is collected by students from the Bee Club or by students in classes.



Throughout the fall and spring semester, roughly 80-100 students volunteered to improve the Biology teaching garden on campus.

Roughly 80-100 students volunteered 2-3 hours each to improve the Biology teaching garden on campus. This included helping to plant trees, remove weeds, and assist with overall maintenance. Occasionally, this would be for extra credit associated with courses across the Biology Program (date: throughout the fall and spring semester 2019). Approximately 10 student volunteers helped to plant a pumpkin patch of 100 plants over the summer. By fall, students of a Soil Science class helped to harvest more than 300 pumpkins (date: summer of 2019). Using a Campus As a Learning Lab (CALL) grant, a student was paid to raise native plants in the propagation house on campus. Among these

plants were native milkweeds, toyon, and other shrubs that will be used to plant on campus (summer and Fall 2019).

CURRICULUM & CONTINUING EDUCATION



Sustainable Agriculture students helped to maintain and expand the campus Biology teaching garden. These students planted a small fruit tree orchard consisting of 29 trees. Among those trees were 10 citrus trees and 5 pomegranates, which are important nectar and pollen sources for bees.



Students from Apiculture and Bee Biology class extracted around 30 lbs of honey.



During the Fall 2019 semester, a group of students from a Soil Science class took over the campus pumpkin patch that was created by summer volunteers and harvested more than 300 pumpkins.

Students from Sustainable Agriculture (BIOL 473), a for-credit course, helped to maintain and expand the campus Biology teaching garden. These students planted a small fruit tree orchard consisting of 29 trees. Among those trees were 10 citrus trees and 5 pomegranates, which are important nectar and pollen sources for bees. Independent Research (BIOL 492), a for-credit course, performed garden experiments at the Biology teaching garden. During the Fall 2019 semester, a Soil Science for-credit course (BIOL 471) took over the pumpkin patch that was created by summer volunteers and harvested more than 300 pumpkins, as well as raised vegetables in the garden bed. The Apiculture and Bee Biology course (BIOL 475) teaches students about bee diversity and evolution, beekeeping and conservation practices. A select few students from this course are part of the lab portion (BIOL 476)

that focuses on basic beekeeping skills, maintaining the campus apiary, and the opportunity to visit commercial apiaries and agricultural fields that have pollinator contracts with local beekeepers. The students in this lab class also helped to extract approximately 30lbs of honey. The Entomology (BIOL 452) course is dedicated to lectures on pollinators including bees.

EDUCATIONAL & INTERPRETIVE SIGNAGE



These two signs are placed near our beehive on campus to inform individuals not to trespass.



This sign helps to highlight our campus's achievement of becoming a Bee Campus and shed light on the bee friendly garden it is placed in front of.

All are permanent Bee Campus USA signs

POLICIES & PRACTICES

We continue to explore non-chemical methods to manage pests on campus, such as rock salting, mulching, mechanical pulling, and using propane torches.

Recommended Locally Native Plant Species List — <https://nativeplants.csuci.edu/plants-index.htm>

Regional Native Plant Supplier List — Performance Nursery and Boething Treeland Farms

Pollinator Friendly Integrated Pest Management Plan — <https://www.csuci.edu/fs/sustainability/integrated-weed-management-plan.pdf>

CONTACT US!

Committee — Bee Campus USA Subcommittee, Roxane Beigel-Coryell, roxane.bc@csuci.edu

Website — <https://www.csuci.edu/fs/sustainability/beecampus-usa.htm>

Social Media — <https://www.instagram.com/sustainabilityatcsuci/>