



SAC Hydroponics Outreach

Touching lives on our campus, in our community and throughout the Americas



EverGreen scholarship students hosted Youth Ambassadors from throughout Central America in February

San Antonio Water Systems (SAWS) Confluence Event



Date: 13 February 2018

Attendees: 1,000 high school students interested in STEM fields and 55 high school faculty

EverGreen participation: The two San Antonio College (SAC) EverGreen scholarship students (Ashley Castillo and Melissa Garcia) set up a portable hydroponic system shown above for demonstration purposes. In the photo you see Melissa explaining how the demonstration system functions and inviting high school students to visit the hydroponics lab at the San Antonio College campus, which is equipped in part through EverGreen grant funding.



Central American Youth Ambassadors



Date: 1-6 February 2018

Attendees: 24 Central American college students and 2 faculty

EverGreen participation: The hydroponic system display developed by the two EverGreen scholarship students from San Antonio College (Ashley Castillo and Melissa Garcia) was on demonstrated as well as the Farm Bot hydroponic automation system developed by a student team supporting the EverGreen projects. In the photo you see Central American students planting a tray of succulent cuttings with the assistance of EverGreen students. The Youth Ambassadors learned about the hydroponic systems located in the greenhouse and at the SAC hydroponics lab.

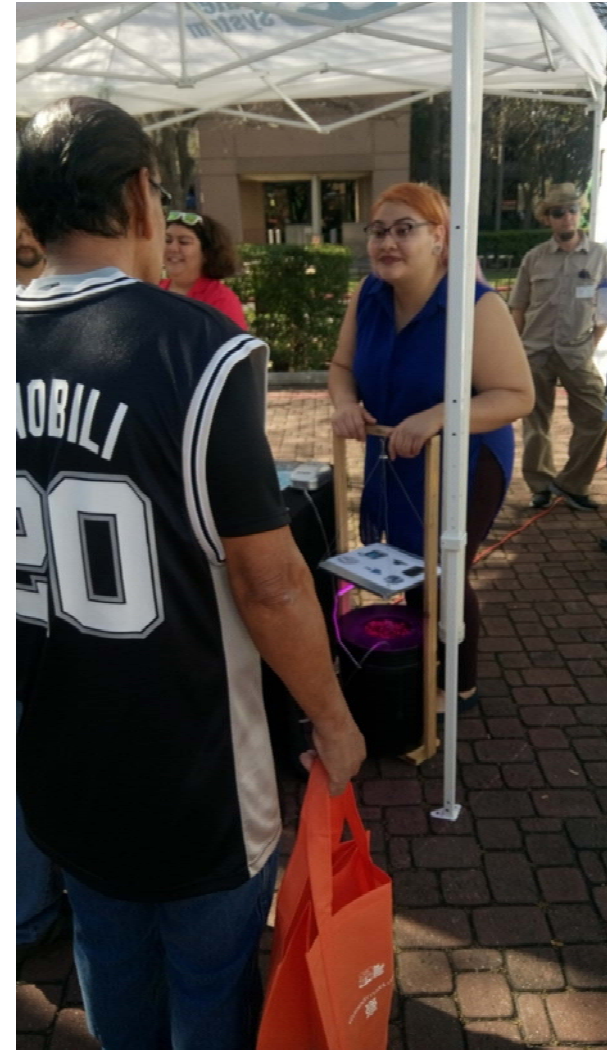


San Antonio Water Systems (SAWS) Spring Bloom Event

Date: 10 March 2018

Attendees: 1,340 members of the public

EverGreen participation: The hydroponic system display developed by the two EverGreen scholarship students from San Antonio College (Ashley Castillo and Melissa Garcia) was on display as well as the Farm Bot hydroponic automation system developed by a student team supporting the EverGreen projects. In the photo you see Ashley explaining the use of LED grow lights in hydroponic systems. With the help of EverGreen year 2 funding, the scholarship students are conducting undergraduate research comparing LED and fluorescent grow lights.



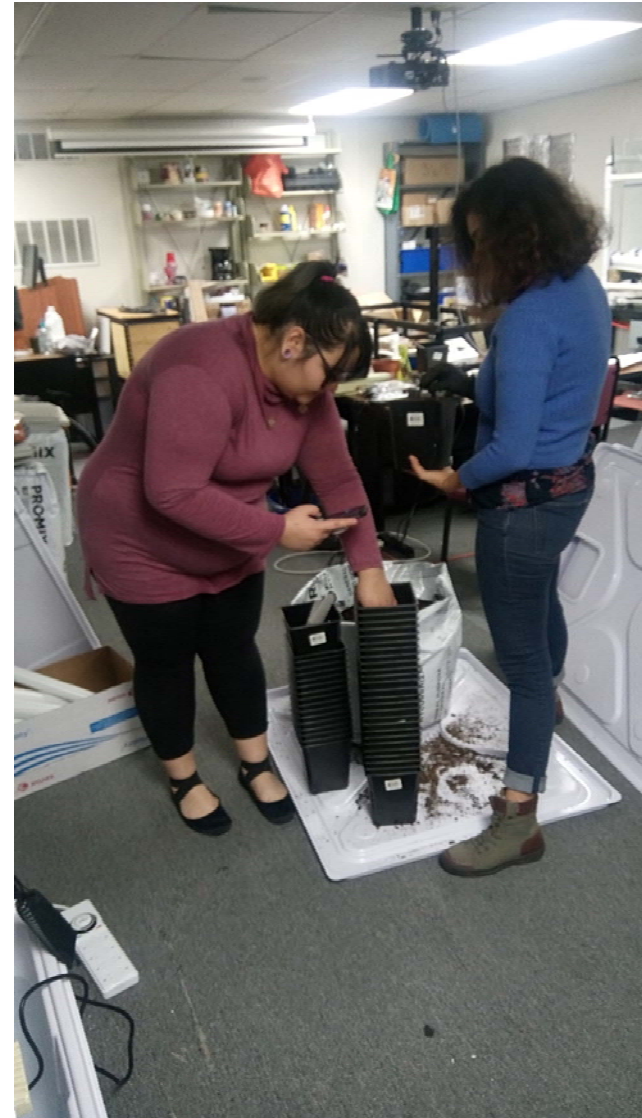


EcoExchangeEdu

Date: 6 April 2018

Attendees: 75 (estimated) college students from San Antonio area colleges and universities

EverGreen participation: The two undergraduate research teams working on EverGreen-related hydroponic projects were among the presenters. EverGreen scholarship students Ashley Castillo and Melissa Garcia (shown working on their project at the right) presented research findings from a comparative study of grow light systems. The Farm Bot team leader (Isaac Olson) made a presentation covering development of Farm Bot technology specifically suited to hydroponic grow areas. The Farm Bot presentation won second place among all college and university presentations.





COLOMBIAN NATIONAL EDUCATION SYSTEM (SENA) DELEGATION

Date: 1-14 April 2018

Attendees: 4 students and 4 faculty representing SENA's western region based in Cali, Colombia

EverGreen participation: The SENA delegation, funded under the 100,000 Strong student exchange program, is collaborating with Alamo Colleges under sponsorship of the "From the Field to the Table" project. This binational collaboration effort received funding from the State Department and Partners of the Americas. Delegates met with EverGreen scholarship students at the SAC hydroponics lab and at the campus greenhouses. Representatives of SAC hydroponic projects are tentatively scheduled to travel to Colombia and meet with SENA counterparts in June of 2018.





TEXAS A&M UNIVERSITY KINGSVILLE (TAMUK)



Date: 13 April 2018

Attendees: 36 students and 3 faculty

EverGreen participation: Representatives of the two SAC hydroponic teams traveled to Texas A&M Kingsville to install the first hydroponic system in their greenhouse. EverGreen student Melissa Garcia assembled a deep water hydroponic system and explained each step of the process to students from the TAMUK agriculture department. Following the demonstration, Isaac Olson of SAC's hydroponic Farm Bot team demonstrated the functionality of the Farm Bot developed by his team. Shown above in the TAMUK greenhouse is Greta Schuster, Agriculture Department Chair, who along with doctoral students Amanda Lewis, hosted the SAC hydroponics group.



SAC CAMPUS OUTREACH

Date: Started April 2018

Attendees: SAC students and faculty who drop into this centrally located greenhouse before, after or between classes

EverGreen participation: The EverGreen scholarship students set up hydroponic systems (see photo on right) as well as in-soil propagation stations in the campus greenhouse. In order to attract more participation from college students and faculty, they established greenhouse visitation hours when they are available to meet with visitors and explain about hydroponics. As more students express interest, Ashley and Melissa plan to start a SAC hydroponics club.

