Implementation of Agroecology Summer Institutes for Secondary Teachers in South Texas

Tim Sears, Assistant Professor in Practice



The University of Texas Rio Grande Valley

The Rio Grande Valley of South Texas



- -one of the highest obesity and diabetes rates in the country
- -ranks last in the percentage of the state population that eats vegetables regularly; one the agriculturally richest areas in TX
- -invasive species and recent urban development threaten the sustainability of local agricultural efforts

Three-Year Grant-Funded CENA Program (2014-2016)

- Curriculum Development, Experiential Learning, Networking, and Agroecology for a diverse clientele in South Texas (CENA) program
- A project of UTRGV's Agroecology and Resilient Food Systems Program
 - College of Sciences: School of Earth, Environmental, and Marine Sciences
- Grant funds awarded from the USDA's National Institute of Food and Agriculture were used to increase teachers' awareness of agroecology concepts and research, one component of the university's program
- Dr. Alex Racelis, Agroecology Program Director
 - Poster Presentation today from 2:05-3:10 pm (number 274)
 - Oral Presentation tomorrow at 11:10 am (number 272)

Summer Institute Goals

1. Mechanism to improve agricultural education in South Texas

2. Create a high school-college-career pipeline for Hispanic students in the agroecological and food related sciences

3. Increase future participation in our Hispanic-Serving Institution's research internships and undergraduate and graduate environmental sciences programs

Summer Agroecology Institute Applicants & Participants

Summer Institute	Summer 2014	Summer 2015
# Applicants	33	103
-Elementary	7	0
-Middle School	23	43
-High School	3	60
# School Districts	10	25
-# of Schools	19	66
Participants	20	20
-# of Districts	7	15
-# of Campuses	14	21

Activities on Four Fridays in June

- Morning session: field trips to local USDA and university agricultural research facilities
 - UTRGV university research garden, community garden, and greenhouse
 - Texas A&M AgriLife Extension Service (Weslaco, TX)
 - USDA APHIS CPHST (Mission, TX lab) fruit fly production, current research on citrus pests, and cattle tick fever research
 - Terra Preta organic farm and Rio Farm (Edinburg, TX)
 - Plantation Produce Packing Plant (Mission, TX)
- Afternoon session: hands-on activities related to plant science, local crops and organic farming
- Teacher participants reported that they incorporated the local issues and concepts into their schools' secondary science curriculum
- Third institute is planned for July 2016











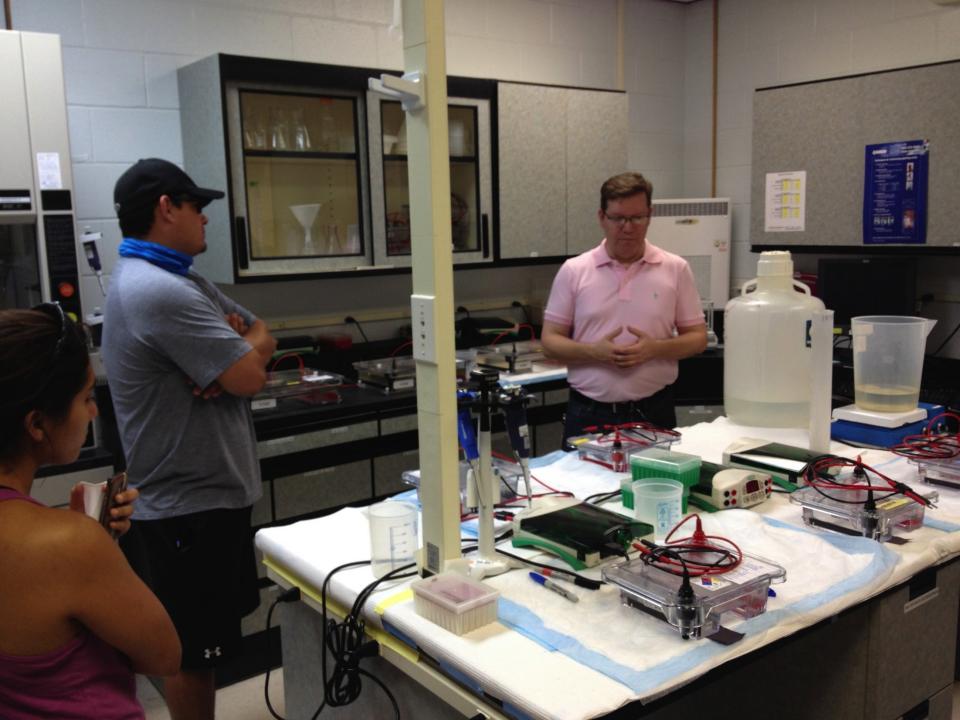














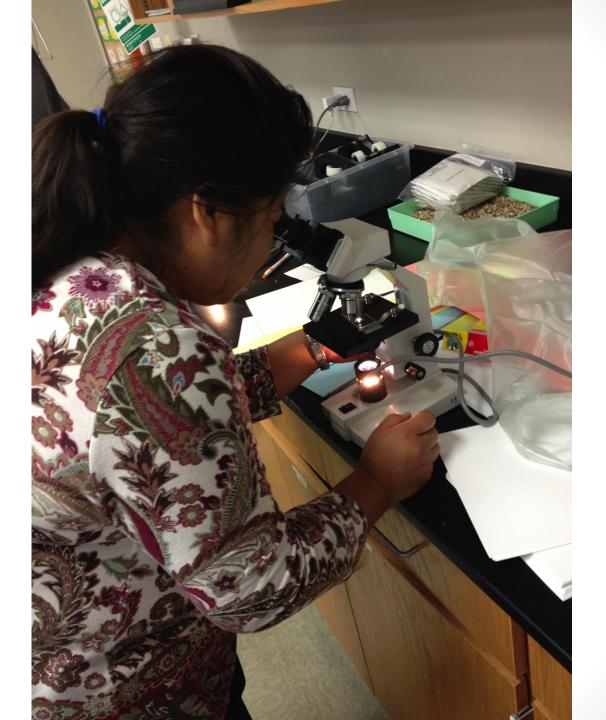








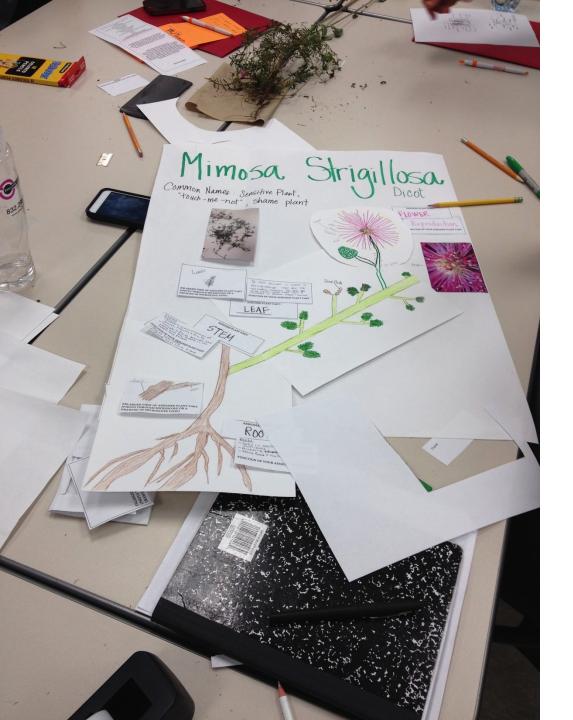
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