



NACTA CONFERENCE PROGRAM

June 21-24, 2016
Honolulu, Hawai'i



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NACTA 2016 Conference Sponsors



COLLEGE OF TROPICAL AGRICULTURE
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COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES PEOPLE, PLACE, PROMISE SINCE 1907



A Meaningful Experience, CTAHR's annual fall tour for students, offers a chance to see a neighbor island, bond with each other, gain team-building skills, and explore cultural and agricultural sites. Students have visited tea farms, macadamia orchards, cattle spreads, taro lo'i and seahorse ranches as well as black sand beaches and historic venues.

Welcome to NACTA 2016

Aloha kākou—welcome to Hawai'i!

The College of Tropical Agriculture and Human Resources (CTAHR) is the founding college of the 10-campus University of Hawai'i System, our state's only public institution of higher education and the principle unit carrying out the tripartite land-grant mission of teaching, research and Cooperative Extension. Through 26 research and extension stations on 5 islands, we serve an ethnically diverse client base that is separated by ocean channels.

Agriculture isn't the first thing that pops into most people's minds when they think about Hawai'i, but it has a long history here. Native Hawaiians were expert aquaculturalists and farmed both sweet potato and dry- and wet-land taro. Westerners harnessed the islands' year-round temperate climate and plentiful rainfall to grow sugar and pineapple. Today we promote diversified agriculture, sustainable resource management and, like the earliest inhabitants, resilient communities.

Hawai'i farms are small—most under 50 acres and generating less than \$50,000 a year in sales. The cost of farming is high and the demand for land insatiable. We import 85 percent of what we eat while struggling to keep invasive species out. Like communities across North America, we worry about wide-ranging issues from food safety to energy security, farm practices to biotechnologies and environmental threats to vulnerabilities of our citizens.

The bright news for all of us is that enrollments are up and career opportunities are strong in agriculture and related programs nationally. Young people want to make a positive difference. NACTA and conferences like this allow us to share the very best in educational practices and curricula so that we equip them to do so.

My best wishes for a productive conference and enjoyable stay in our Island home.

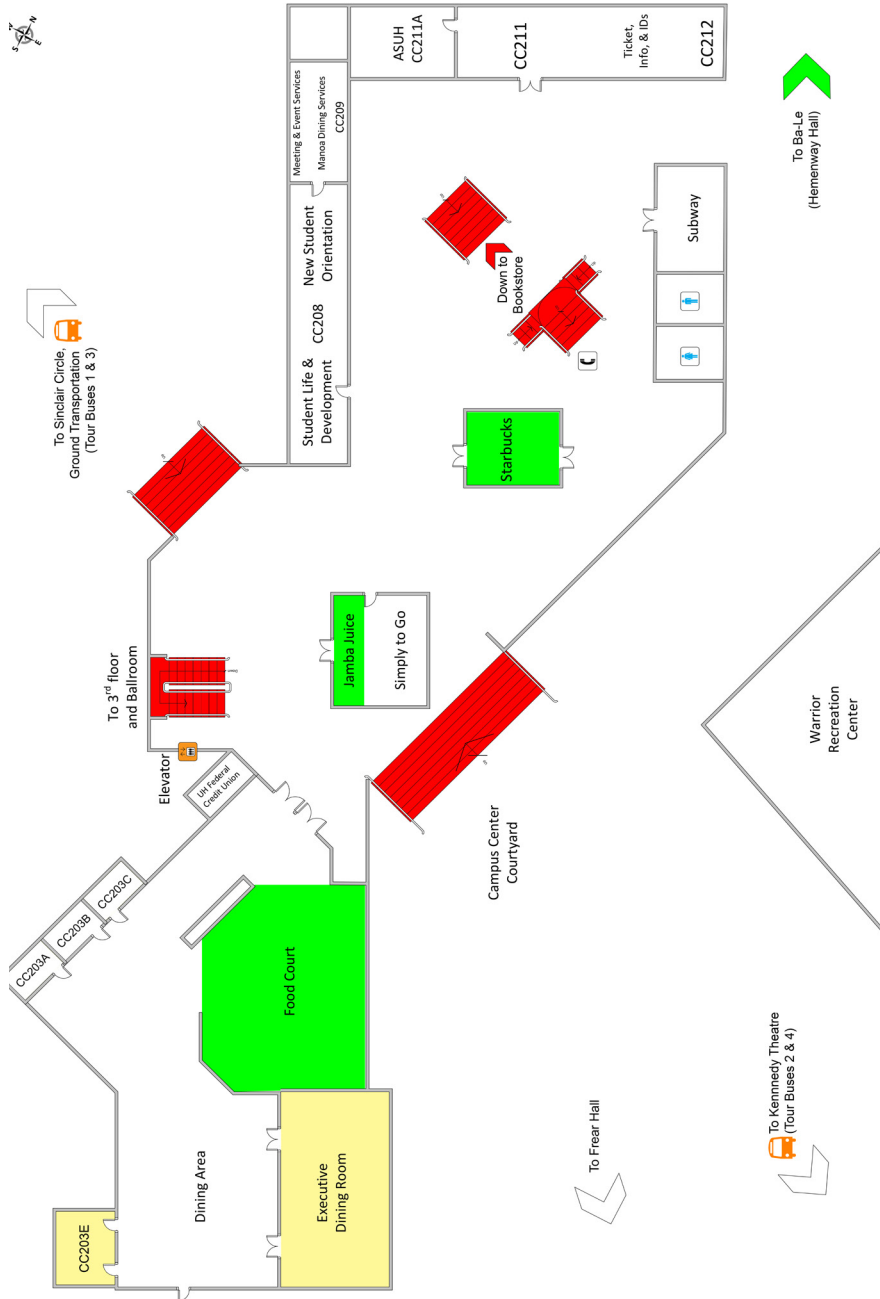


Maria Gallo, PhD
Dean and Director for Research and Cooperative Extension
College of Tropical Agriculture and Human Resources
University of Hawai'i at Mānoa

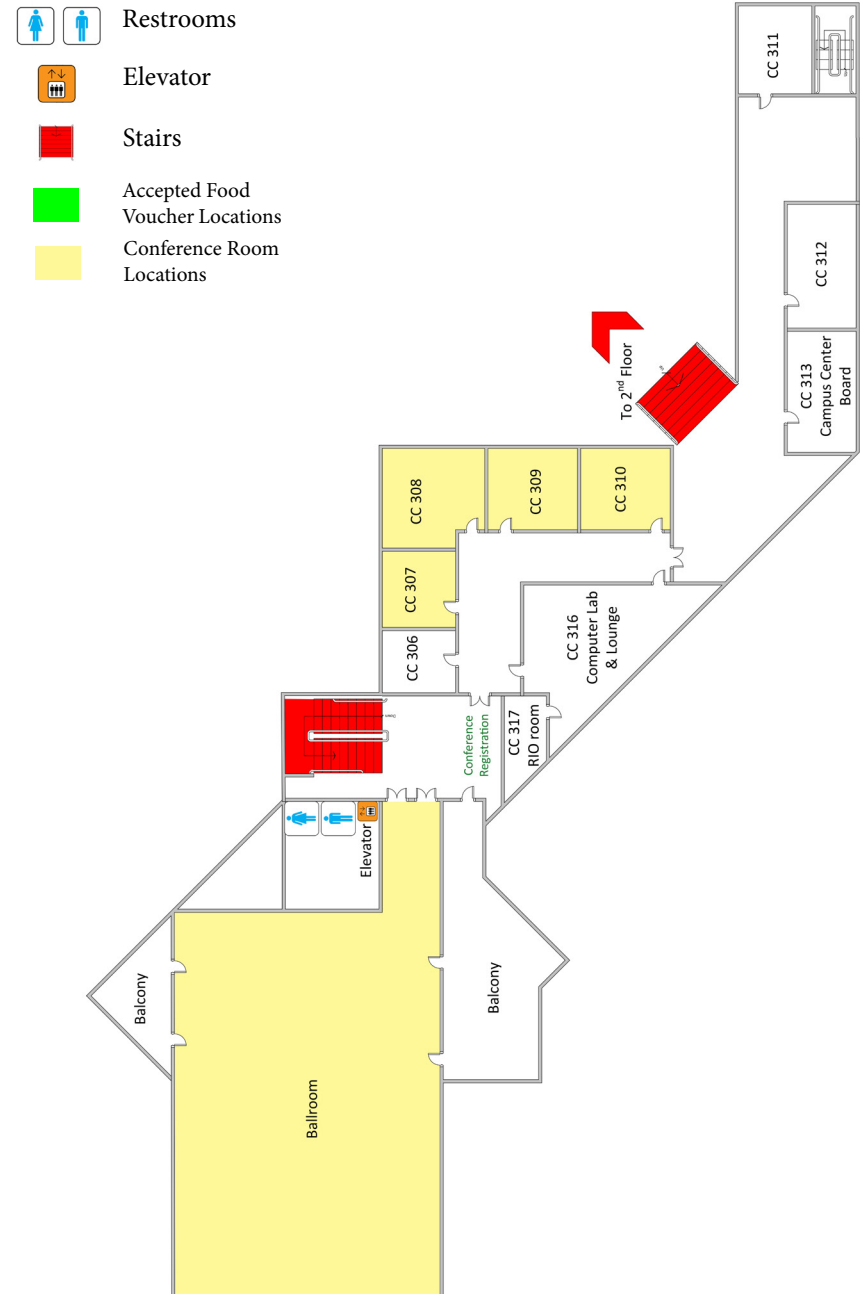
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University of Hawai'i at Mānoa Campus Center 2nd Floor



University of Hawai'i at Mānoa Campus Center 3rd Floor



Schedule

6.21 tuesday

10 a.m. - 3 p.m.

Registration
ALA MOANA HOTEL AND
FREAR HALL

11 a.m. - 3 p.m.

NACTA Executive
Committee Meeting
UHM CC 307

4:30 - 6:30 p.m.

Registration
KAPI'OLANI COMMUNITY
COLLEGE

4:45 p.m.

Buses Depart
ALA MOANA HOTEL AND
FREAR HALL TO KAPI'OLANI
COMMUNITY COLLEGE

5:30 - 7:30 p.m.

Welcome Reception
KAPI'OLANI COMMUNITY
COLLEGE

7:30 p.m.

Buses Depart
KAPI'OLANI COMMUNITY
COLLEGE TO ALA MOANA
HOTEL AND FREAR HALL

6.22 wednesday

7:00 a.m.

Bus Departs
ALA MOANA HOTEL TO UHM

7:30 a.m. - 3 p.m.

Registration/Information
UHM CAMPUS CENTER
BALLROOM FOYER

7:30 - 8 a.m.

Breakfast
UHM CAMPUS CENTER
BALLROOM

8 - 9:30 a.m.

Opening Session
UHM CC BALLROOM
Welcome and
Introduction

Dr. Charles Kinoshita
*Associate Dean of Academic
and Student Affairs, College of
Tropical Agriculture and Human
Resources, University of Hawai'i
at Mānoa*

Keynote Address
*Systems, Complexity,
and Adaptation: The
Educator's Challenge*

Kyle Datta
Ulupono Initiative

9:30 - 9:45 a.m.

Break

9:45 a.m. - 12 p.m.

Concurrent Presentations 1
UHM CAMPUS CENTER

1A: Innovative Teaching
EXECUTIVE DINING ROOM

1B: Innovative Teaching
CC 203E

1C: Learning Outcomes
CC 307

1D: Other Educational
Topics
CC 308

1E: Scholarly Research
CC 309

1F: Scholarly Research
CC 310

12 - 1 p.m.

Lunch (Vouchers)
UHM CAMPUS CENTER
Vouchers valid for
Campus Center's 2nd
Floor Food Court, Jamba
Juice and Starbucks or
Ba-Le in Hemenway Hall

1 - 3:10 p.m.

Poster Session 1
UHM CAMPUS CENTER
BALLROOM

1 - 2:05 p.m.

Poster Session 1A

2:05 - 3:10 p.m.

Poster Session 1B

3:30 p.m.

Buses Depart
UHM TO ALA MOANA HOTEL

5:15 p.m.

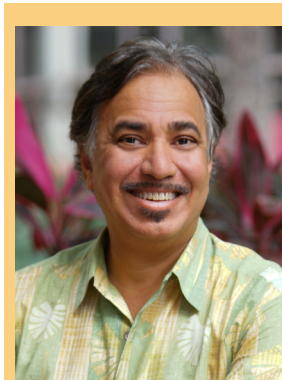
Buses Depart
ALA MOANA HOTEL AND
FREAR HALL TO WINDWARD
COMMUNITY COLLEGE

6 to 9 p.m.

Lū'au (Hosted by the
Agripharmatech Program
and Chancellor's Fund)
WINDWARD COMMUNITY
COLLEGE

9 p.m.

Buses Depart
WINDWARD COMMUNITY
COLLEGE TO ALA MOANA
HOTEL AND FREAR HALL



 **Kyle Datta**
General Partner

Schedule

6.23 thursday

7:00 a.m.

Buses Depart
ALA MOANA HOTEL TO UHM

7:30 a.m. - 12 p.m.

Registration/Information
UHM CAMPUS CENTER
BALLROOM FOYER

7:30 - 8 a.m.

Breakfast
UHM CAMPUS CENTER
BALLROOM

8 - 10:10 a.m.

Poster Session 2
UHM CAMPUS CENTER
BALLROOM

8 - 9:05 a.m.

Poster Session 2A

9:05 - 10:10 a.m.

Poster Session 2B

10:10 - 10:25 a.m.

Break

10:25 a.m. - 11:40 a.m.

Concurrent Presentations 2
UHM CAMPUS CENTER

2A: Innovative Teaching
EXECUTIVE DINING ROOM

2B: Innovative Teaching
CC 203E

2C: Learning Outcomes
CC 307

2D: Other Educational
Topics
CC 308

2E: Other Educational
Topics
CC 309

2F: Scholarly Research
CC 310

11:40 - 12:30 p.m.

Box Lunch
PICK UP AT UHM CAMPUS
CENTER BALLROOM OR
OUTSIDE JAMBA JUICE

12:30 p.m.

Tour Buses Depart
LEAVE UH FOR TOURS

12:30 - 6 p.m.

Tours (Refer to tour ticket)
VARIOUS LOCATIONS ON
O'AHU; BUSES RETURN TO
ALA MOANA HOTEL AND UH



IT'S A FACT:

Most of Hawai'i's
7,000 farms are
small—63% are
less than 10 acres,
and 88% are less
than 50 acres.



CTAHR
University of Hawai'i at Mānoa



Mahalo Student Assistants

*Food Science and
Human Nutrition
Council:*

Andrew Badua
Abigayle Baldwin
Cherese Shelton
Kim Lucas
Shalynn Mckee

Pre-Veterinary Club:

Jerrisa Ching
Kristoffer Raymundo
Cathy Tran

ABOUT THE KEYNOTE SPEAKER

Kyle Datta is General Partner of Ulupono Initiative, a for-profit, impact investment firm that works to improve the quality of life in Hawai'i by making sustainable investments in locally produced food, renewable energy, and waste reduction. Mr. Datta previously was CEO of the privately funded U.S. Biodiesel Group, Managing Director of Research and Consulting at the Rocky Mountain Institute, and Vice President at Booz Allen Hamilton, in charge of Asia energy and U.S. utilities practice.

Mr. Datta holds master's degrees in public and private management and environmental science in resource economics from the Yale University. He is co-author of the RMI books *Winning the Oil End Game* and *Small is Profitable* and serves on the board of directors for Blue Planet Foundation, Hawai'i BioEnergy, and Parker Ranch.

Schedule

6.24 *friday*

7:00 a.m.
Buses Depart
ALA MOANA HOTEL TO UHM

7:30 - 9 a.m.
Registration/Information
UHM CAMPUS CENTER
BALLROOM FOYER

7:30 - 9 a.m.
Breakfast / NACTA
Committee Meetings
UHM CAMPUS CENTER
BALLROOM

9 - 10 a.m.
Blue-Ribbon Presentation
UHM CAMPUS CENTER
BALLROOM

Introduction
Dr. Tracy S. Hoover
*Associate Dean for
Undergraduate Education,
College of Agricultural Sciences,
The Pennsylvania State
University*

Blue-Ribbon Address
Millennials and Me
Dr. Ann Marie
VanDerZanden
Iowa State University

10 - 10:15 a.m.
Break
UHM CAMPUS CENTER

10:15 a.m. - 12 p.m.
Concurrent Presentations 3
UHM CAMPUS CENTER

3A: Innovative Teaching
EXECUTIVE DINING ROOM

3B: Innovative Teaching
CC 203E

3C: Innovative Teaching
CC 307

3D: Learning Outcomes
CC 308

3E: Other Educational
Topics
CC 309

3F: Scholarly Research
CC 310

12 - 1:30 p.m.
NACTA Business Luncheon
UHM CAMPUS CENTER
BALLROOM

1:30 - 2:45 p.m.
Concurrent Presentations 4
UHM CAMPUS CENTER

4A: Innovative Teaching
EXECUTIVE DINING ROOM

4B: Innovative Teaching
CC 203E

4C: Innovative Teaching
CC 307

4D: Learning Outcomes
CC 308

4E: Other Educational
Topics
CC 309

4F: Other Educational
Topics/Scholarly Research
CC 310

2:45 - 3 p.m.
Break (Hosted by
Monsanto Hawai'i)
UHM CAMPUS CENTER
BALLROOM

3 - 5 p.m.
Workshops
UHM CAMPUS CENTER

**#1 Boosting Enrollment:
Successful Recruitment
Courses in Food and
Agricultural Sciences**
Sponsored by USDA
EXECUTIVE DINING ROOM

Schedule

6.25 *saturday*

9 - 12 p.m.
NACTA Executive
Committee Meeting
ALA MOANA HOTEL

**#2 Teaching Indigenous
Agriculture: Hawaiian
Approaches to Integrate
Tropical Crops and
Cropping Systems
in Today's Training
Programs and Curricula**
CC 203E

**#3 Quality Seed Variety
Leads to a Bountiful
Harvest: A Look at
Internships**
CC 307

**#4 Assessment - Not
a 4-Letter Word!
Meaningful and
Manageable Strategies
for Assessing Student
Learning Outcomes**
CC 308

**#5 Advancing Your
Scholarly Teaching
into the Scholarship of
Teaching and Learning
(SoTL)**
CC 309

**#6 Strategic Study Abroad
Course Development and
Assessment**
CC 310

5:30 - 8:30 p.m.
Networking and Awards
Banquet
UHM CAMPUS CENTER
BALLROOM

8:30 p.m.
Buses Depart
RETURN TO ALA MOANA
HOTEL

ABOUT THE BLUE RIBBON SPEAKER



**Ann Marie
VanDerZanden, PhD**

Director, Center
for Excellence in
Learning and Teaching

Professor, Department
of Horticulture

IOWA STATE UNIVERSITY



Ann Marie VanDerZanden, PhD, is a Louis Thompson Distinguished Undergraduate Teacher, Director of the Center for Excellence in Learning and Teaching, and Professor of Horticulture at Iowa State University. As Director, she provides leadership for the center in meeting its mission to support, promote, and enhance teaching effectiveness and student learning at Iowa State.

She has taught more than 25 different courses, and she maintains an active teaching and mentoring role in the Department of Horticulture. Her research interests include many aspects of undergraduate education, which she explores in both the horticulture context and across the university. She is also keenly interested in historic Irish gardens and their preservation and restoration using sustainable landscape practices.

Dr. VanDerZanden has received numerous outstanding teaching awards and positive student evaluations. A favorite recent student comment is, "I didn't like doing the camera challenge assignments, but I know why you made us do them. Thank you." A prolific writer, she has written three landscape textbooks and regularly contributes to national and regional gardening magazines. In addition, she frequently publishes peer-reviewed articles focused on teaching and learning in higher education.

**THE
VALUES
OF ALOHA**

AKAHAI
kindness

LŌKĀHI
unity, harmony

'ŌLUOLU
pleasantness

HA'ĀHA'Ā
humility

AHONUI
patience

It's All About the 'Ulu

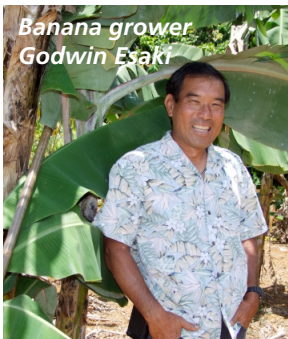


CTAHR Outstanding Alumna **Diane Ragone** is a Star of Oceania for global efforts to promote sustainable agriculture and food security through cultivation of breadfruit.



Group 1A: Innovative Teaching
ROOM CC EXECUTIVE DINING ROOM

TIME	NO.	TITLE	AUTHORS
9:45	403	Utilizing Multi-University Collaboration to Enhance Distance Education Materials for Principles of Professional Selling Courses: A Case Study	Jane Bachelor , University of Florida, Scott Downey, Purdue University, Larry Zink, Michigan State University, & Kerry Litzenberg, Texas A&M University
10:00	384	Enhancing Student Learning in the Hawai'i AgDiscovery Program	Mandy Chen & Charles Kinoshita, University of Hawai'i at Mānoa
10:15	383	Cultivating Student Success Using Interactive Web Tools	Bonnie Walters & Tim Buttles , University of Wisconsin - River Falls
10:30	381	Building Relationships and Trust Between the Local Community and STEM Professionals	Janice Straley , University of Alaska Southeast Sitka Campus, Mary Lou Madden, Madden Associates, & Janet Clarke, Sitka Sound Science Center
10:45	375	A Novel Approach to Teach Sustainable Animal Breeding and Genetics Practices to Undergraduates in the Animal Sciences	Kyle C. Caires , Berry College, GA
11:00	372	Implementation of Agroecology Summer Institutes for Secondary Teachers in South Texas	Alexis Racelis & Tim Sears , University of Texas, Rio Grande Valley
11:15	371	Should Social Media Education be a Part of the Agronomy Curriculum?	Marshall M. Hay & Kim J. Kerschen, Kansas State University
11:30	365	Teaching Healthy Lifestyles and Science to Youth by Building and Cooking from World-Regions Gardens	Mary Martini , Lehua Wall, & Kaya Terem, University of Hawai'i at Mānoa
11:45	345	Teaching Apparel Construction in a Flipped Classroom	Samii Kennedy Benson , Balitore City Community College



Banana grower
Godwin Esaki



THE FACE OF FARMING IN HAWAII

Half of Hawai'i farm operators are Asian-American, 8% are Native Hawaiian/Pacific Islanders, and 9% are mixed race. More than 1 in 4 are women. Close to a third are over age 65. Two-thirds live on their farms, but nearly half say farming is *not* their primary occupation.

Group 1B: Innovative Teaching
ROOM CC 203E

TIME	NO.	TITLE	AUTHORS
9:45	326	Incorporating the Smartphone as a Teaching Tool for Agronomic Education	Marshall M. Hay & Kevin J. Donnelly, Kansas State University
10:00	312	Cultivating Graduate Student Success: Integrating Natural and Social Sciences to Promote Interdisciplinary Research and Teaching	Melanie Miller Foster & Maria Jimenez-Gasco, The Pennsylvania State University
10:15	304	Generation Us: Teaching Methods	Kelly V. Johnson & Kathi Jogan, University of Arkansas
10:30	303	Increasing the Utility Value of Lab Reports in a College Biology Course	Kevin Curry , Dan Spencer, Ondrej Pesout, & Kimberly Pigford, North Carolina State University
10:45	298	Swapping the Bar for the Bed: Using Biofeedback as a Teaching Method for Developing Professional Resilience and Readiness in College Students	Erica B. Thieman & Blaze K. Currie, University of Illinois at Urbana-Champaign
11:00	288	Using Animation Technology in Teaching Social Justice to Collegiate Agriculture Students	Pamala Morris , Shalyse Iseminger, & George Takahashi, Purdue University, IN
11:15	281	Engaging Students' Emotions and Logic to Address Wicked Problems	Nicole Stedman & Jera Niewoehner, University of Florida
11:30	260	Using Art to Evaluate Student Views of Insect-Person Interactions in an Undergraduate Entomology Course	W. Wyatt Hoback , J. Shane Robinson, Bill D. Cavill, & Doug Golick, Oklahoma State University
11:45	258	Gathering Women to Cultivate Agriculturally Empowered and Engaged Learning	Melissa Leiden Welsh , Shannon Potter Dill, & Jennifer Rhodes, University of Maryland Extension

Group 1C: Learning Outcomes
ROOM CC 307

TIME	NO.	TITLE	AUTHORS
9:45	392	Global Perspective Certificate Program: Assessment Using a Faculty Development Rubric	Barbara M. Kirby & Michael D. Mullen , North Carolina State University
10:00	388	Do We Still Believe in The Power of Knowledge?	Nataliya Plesha , University of Connecticut, & Stephen Devadoss, University of Idaho

TIME	NO.	TITLE	AUTHORS
10:15	361	Engaging Agriculture Students in Reflective Discourse Around Intercultural Communication: Approaches and Outcomes	Jera Niewoehner & Nicole Stedman, University of Florida
10:30	343	Cultivating Solar Energy Experiences: Evaluation of a Hands-on Workshop	Edward A. Franklin , University of Arizona
10:45	310	An Evaluation of the Implementation and Use of College-Level Standards in Undergraduate Research in a College of Agricultural and Life Sciences	Amanda L. Ford , Allen F. Wysocki & Wendy J. Dahl, University of Florida
11:00	290	Perceptions Concerning Instructor's Attempts to Motivate or Challenge Students Using the IDEA Student Evaluation	Mark J. Anderson , M.M. Beverly, J.L. Leatherwood, K.J. Stutts, & S.F. Kelley, Sam Houston State University, TX
11:15	218	Financial Analysis of FFA Career Development Events Hosted by Texas A&M University-Commerce for 2012-2014	Chelsea Arnold , Robert L. Williams, & Erin Fortenberry, Texas A&M University - Commerce
11:30	283	Interdisciplinary EAAT Course Assessment	Kathi Jogan & Kelly V. Johnson, University of Arkansas
11:45	16	Focus on Efficiency (<i>NEW TIME</i>)	Boykin Witherspoon III , California State University - San Bernardino

Group 1D : Other Educational Topics

ROOM CC 308

TIME	NO.	TITLE	AUTHORS
9:45	399	Meeting the Grand Challenges	Timothy J. Nichols , Suzanne Stluka , & Henry Goeden, South Dakota State University
10:00	373	Improving Student Success through the Undergraduate Advising Experience	Timothy Kerr & Dennis Buckmaster, Purdue University, IN
10:15	367	Assessing the Impact of Vertical Alignment Professional Learning Communities in Improving Teacher Instructional Approaches	Maria Navarro , Tim Foutz, & Emily Cabrera, University of Georgia
10:30	355	Assessing the Potential for Establishing 4-H in Belize to Preserve Agricultural Indigenous Knowledge and Practices	Olivia Murphy-Sweet , Melanie Miller-Foster, Daniel Foster, & Paige Castellanos, The Pennsylvania State University
10:45	338	Perceptions of a Diverse Student Population on Animal Agriculture	Kyle J. Stutts , S.F. Kelley, J.L. Leatherwood, M.M. Beverly, & M.J. Anderson, Sam Houston State University, TX

TIME	NO.	TITLE	AUTHORS
11:00	330	A BRIDGE Program to Engage, Sustain and Empower Women and Minorities in STEM	Semih Aslan , Michelle Londa, Bahram Asiabanpour, Jesus Jimenez, & Hassan Salamy, Texas State University
11:15	329	Advantages and Challenges in Academic Advising Approaches Utilized by Various Size Agricultural Universities	Charles Robert Stark Jr. , University of Arkansas, Joey Mehlhorn, University of Tennessee, & Randy Little, Mississippi State University
11:30	320	Student Recruitment: What Is It That REALLY Makes Them Say "Yes!"?	Dwayne Pavelock , Shyam Nair, Savannah Koehl, & Bethany Whitten, Sam Houston State University, TX
11:45	24	Are Agriculture Students Prepared for a Global Marketplace?	Melissa Hendrickson , Elizabeth Wilson, Jay Jayaratne, & Wendy Warner, North Carolina State University

Group 1E : Scholarly Research

ROOM CC 309

TIME	NO.	TITLE	AUTHORS
9:45	382	Classroom Level Student Engagement in a Team-Based Learning Formatted Course	OP McCubbins , Thomas. H. Paulsen, & Ryan Anderson, Iowa State University
10:00	360	Describing Perceptions of Preparedness Among Agriscience Educators Entering 21st Century, Global, Learning Environments	Carla Jagger & M. Susie Whittington, The Ohio State University
10:15	200	Exploring the Connection: Linking Leadership Skill Development with Curricular Experiences	Jonathan J. Velez & Aaron J. McKim, Oregon State University
10:30	322	Building Professional Learning Networks Through Social Media: #TeachAgChat	Daniel Foster , Melanie Miller Foster, The Pennsylvania State University, & Karen Cannon, University of Nebraska
10:45	299	Describing Agricultural Discipline Specific Signature Pedagogies	Laura L. Rice & Daniel D. Foster, The Pennsylvania State University
11:00	294	Balancing Expertise: Responsive Approach to Conservation Curriculum Development in a Secondary Agricultural Educational Setting	Elena Polush, Jose I. Martinez, Ball State University, Thomas H. Paulsen , Iowa State University, & Taylorann K. Clark, Odebolt-Arthur and Battle Creek-Ida Grove H.S.
11:15	239	Foundational Components of a Student Teaching Experience	David C. Frazier , Sheridan Mulkey, T. Wayne Atchley, & Rudy Tarpley, Tarleton State University, TX
11:30	266	The Not So "Ugly American:" How Study Abroad Enhances Students' Professionalism Skills	Ann Martin, William Moore, Gary Wingenbach , Tobin Redwine, Tracy Rutherford, Texas A&M University, & Wash Jones, Prairie View A&M University

TIME	NO.	TITLE	AUTHORS
11:45	376	Examining the Differences in Learning Style Preferences for College of Agriculture Students <i>(NEW TIME)</i>	Kasee L. Smith & John Rayfield, Texan A&M University

Group 1F : Scholarly Research
ROOM CC 310

TIME	NO.	TITLE	AUTHORS
9:45	232	TPACK to GPACK? The Examination of the Technological Pedagogical Content Knowledge Framework as a Model for the Integration of Global Content into College of Agriculture Classrooms	Emily Urban & Maria Navarro , University of Georgia
10:00	226	The Influence of a Social System on Students' Understanding of Global Food Security	Robert Strong Jr. , Thomas Hall IV, & Katlin Keppler, Texas A&M University
10:15	212	"Exploring Food Security" Crop Science Short-Term Study Abroad Program: Student Participants' Motivations and Concerns	Amber Lynn Beseli & Lori J. Unruh Snyder, North Carolina State University
10:30	204	Will Mom Approve? Parent Perceptions of Study Abroad Programs	Tracy Rutherford , David Walther, Tobin Redwine, Gary Wingenbach, Texas A&M University, Laura Lemons, Holly Webb, Mississippi State University, J.C. Bunch & Joey Blackburn, Louisiana State University
10:45	192	A Pre-Post Perspective on Individual and Team Scores in a Team-Based Learning Course	Foy D. Mills Jr. , L.A. Wolfskill, Shyam S. Nair, & Jaclyn Robinson, Sam Houston State University, TX
11:00	175	Team Cohesiveness and Its Influence on Student Performance in Team-Based Learning	Shyam S. Nair, Foy D. Mills, Jr., L. Art Wolfskill , & Jaclyn Robinson, Sam Houston State University, TX
11:15	151	Are We Focusing on the Right Things? Perceptions of Recent Graduates	Daniel D. Foster , John C. Ewing, Mark Threeton, & Nur Husna Abd Wahid, The Pennsylvania State University
11:30	139	Perceived Gap Between Importance and Competence of Leadership Characteristics Among Undergraduate Leadership Students	Ben Weikert , Laura Hasselquist, & Jon C. Simonsen, University of Missouri
11:45	13	Incorporating STEM in a Natuculture Laboratory for Teaching Agriculture and Non-Agriculture Students	Manuel Reyes, Paula E. Faulkner , Alexander Joyce, & Michelle Nelson, North Carolina A&T State University

wednesday 1-2:05 p.m. *Poster Session 1A*

NO.	TITLE	AUTHORS
409	Embedding Professional Development into a Problem-Based Transdisciplinary Obesity Prevention Course	Brenda Koester , Jill Bowers, Jennifer Themanson, Barbara Fiese, Gabriella Garcia, University of Illinois at Urbana-Champaign, Dorothy Teegarden, Purdue University, & Amber Hammons, California State University at Fresno
98	An Instrument to Determine Teachers' Perceptions of College and Career Readiness: 21st Century Knowledge, Skills, and Dispositions (21st C-KSD)	Catherine A. DiBenedetto , Clemson University, & Brian E. Myers, University of Florida
406	Cultivating Student Success Through a Global Issues Course	Amber Lynn Beseli & Elizabeth Wilson, North Carolina State University
405	Six Ways to Discuss	Roger Brown , University of Kentucky, & Sara Williamson, Saint Joseph's University, Philadelphia, PA
395	Utilizing the Hardiness Approach in an Undergraduate Leadership Course in Agricultural and Life Sciences	Hannah Carter, Elio Chiarelli , & Michele Curts, University of Florida
389	Students as Co-Producers of Teaching and Education: Role of Service-Learning	Nataliya Plesha & Adam N. Rabinowitz, University of Connecticut
374	The Impact of Undergraduate Students' Perceived Efficacy on Academic Performance in an Animal Nutrition Course	Katherine A. Moore , C.R. Phillips, M.S. Aschenbrener, S.P. Doyle, & K.L. DeAtley, California State University-Chico
369	Experiential and Experimental Learning Approaches in Agriculture Sciences at Florida International University	Krish Jayachandran , Mahadev Bhat, & Kateel Shetty, Florida International University
364	Teaching Sustainable Gardening by Modeling a Family-Sustaining System	Mary Martini , University of Hawai'i at Mānoa
359	Innovative and Scholarly Approaches to Train Minority Students in Research on Spatial and Temporal Patterns at the Chesapeake Bay and Hilo Bay	Shobha Sriharan , Virginia State University, Gulnihal Ozbay, Delaware State University, & Jason Adolf, University of Hawai'i at Hilo
358	Maximizing Language Learning Abroad: Exploring The Case of the Agricultural Spanish Program at The Adventure Education Center in Turrialba, Costa Rica	Kayla Hack, Melanie Miller Foster, Daniel Foster, & Paige Castellanos , The Pennsylvania State University
350	Factors Impacting Student Situational Interest in an Equine Science Learning Module	Elise A. Lofgren , Colleen Brady, & Judith Lewandowski, Purdue University, IN

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344	Campus CSA and Farm Market: Tools for Teaching Crop Production and Developing New Farmers	Ann Emmsley , Pedro Oliveros, & Lyons Cabacungan, University of Hawai'i, Maui College
340	Innovations for Improving Writing Skills of First-Year Students in the Agricultural Technology Program at Virginia Tech	Joseph W. Guthrie , Virginia Tech
339	Creating Infographics as an Educational Teaching Tool in Two Iowa State University Animal Science Classes	Jodi Sterle , Amy Powell, & Kelly Schulz, Iowa State University
336	Engaging Students through Various Teaching Methods: Experiences from an Introductory Tropical Ornamental Horticulture Course for Non-Majors	Orville C. Baldos , University of Hawai'i at Mānoa
335	Poster Presentations: Combining Communication, Research and Creative Skills for Undergraduate Students	Joy E. Morgan & Jim Flowers, North Carolina State University
380	Comparing Exam Options for Assessment of Student Learning	Chad L. Gasser , Southern Utah University
379	Identifying and Changing Perspectives of Agriculture: A Case Study	Kasee L. Smith & John Rayfield, Texas A&M University
377	Impact of Course Delivery Method (Online vs Traditional) and Semester (Fall vs Spring) on Final Grades in a Freshman Animal Science Course Over a Six Year Period	Kimberly Ange-van Heugten , North Carolina State University
353	Comparison of Classroom and Field Learning Environments: A Look at Student Learning and Enjoyment	Erik J. Christian , Haleigh Summers, & Katharina Wigg, Iowa State University
342	Improving the Delivery and Content of an Online Plant Science Lab Course by Assessing Learning Outcomes	James McConnell , Mari Marutani, & Jason Andrew, University of Guam
289	Variables that Affect Retention Rates in the Agricultural Institute at North Carolina State University	Alyssa Degreenia , Elizabeth Wilson, Wendy Warner, David Jones, & Karl Jicha, North Carolina State University
337	Successes and Failures: Academic/ Graduation Results Over Time for Developmental Students Enrolled in a Small State University Agriculture Program	Charles Robert Stark, Jr. , University of Arkansas- Monticello
313	Using Field Trip Reports to Assess Students' Critical Thinking in a Freshman Plant Science Class	Lurline Marsh & Fawzy Hashem, University of Maryland - Eastern Shore
305	Enhancing Students' Personal Growth with a Study-Abroad Program in Food Science	Maria Navarro , Isis Vera Blanco, Quint Newcomer, & Ronald B. Pegg, University of Georgia

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302	Fern Propagation: An Experiential Learning Component	Eman I. Gabour, Sharadchandra P. Marahatta , Kaua'i Community College, & Ashly Trask, National Tropical Botanical Garden
300	Environmental Literacy and Student Performance: Lessons Learned from a Professional Development Intervention	Kevin Curry , Rachel Szczytko, Kathryn Stevenson, Wendy Warner, & Travis Park, North Carolina State University
316	Professional Development Needs of Traditionally vs. Alternatively Certified High School Agriculture Teachers	Meagan Pasket, Dwayne Pavelock , & Doug Ullrich, Sam Houston State University, TX
394	English as the Instructor's Second Language: A Barrier to the Teaching Learning Process	Mike McDermott , Eastern Kentucky University
390	Gaining Farmers' Perspective on Climate Change	Kaila Thorn , The Pennsylvania State University
378	The Softer Side of STEM: Agricultural Sciences Students' Perception of the Role of "Soft Skills" in Their Educational and Career Success	Olga Bolden-Tiller , Tuskegee University, AL
368	A Comparison of Students' Career Aspirations and Decisions Before and After Completion of an Introduction to Agricultural Communications Course	Troy Tarpley & C. Akers, Texas Tech University
357	Technology Evolution: The Incorporation of ZipGrade into your Technology Toolbox	A. Bechtold , L. Hayes, R. Ramanathan, B. Wilson, Dan Stein, Oklahoma State University, & S. Lowman, Southeast Missouri State University
354	Hort Plants: An iOS App for Teaching About Landscape Plants	Dharmendra Saraswat & J. Robbins, Purdue University, IN
333	Evolution of a Summer Enrichment Program in Agriculture for High School Students	Christopher Catanzaro , P. Thomas-Buchanan, & S. Bradshaw, Virginia State University
319	Is Success in Leadership Development Events Simply a Numbers Game?	Dwayne Pavelock , Shyam Nair, Savannah Koehlj, & Doug Ullrich, Sam Houston State University, TX
407	Examining How Place Attachment Affects Citizen Perspectives of Albizia	Candace Wharton , Hawai'i Community College, Hilo, HI
348	Predictors of Career Decision-Making Self-Efficacy Among Female College Freshmen and Transfer Students	Torrie A. Cropps , Brandon Allen, Abby Coy, & Levon T. Esters, Purdue University, IN
309	The Effect of Student Motivation on Performance in Online Exams	Mark J. Anderson , S.F. Kelley, M.M. Beverly, K. J. Stutts, & J.L. Leatherwood, Sam Houston State University, TX

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236	Keeping International Program REAL: Real World Applications within Limitations	David C. Frazier , T. Wayne Atchley, & Rudy Tarpley, Tarleton State University, TX
277	Grounding the New/Beginning Urban Farmer: Identifying Gaps in Educational Resources	Allyson Schonfeld , Daniel D. Foster, & John C. Ewing, The Pennsylvania State University
264	Students Use Portfolios to Gauge Effort and Achievement in a Plant Identification Course	Cynthia Haynes , Jan Thompson, Suzanne Hendrich, Jan Wiersema, Barbara Licklider, & Samantha Green, Iowa State University
262	A Holistic Evaluation of Supplemental Instruction in Introductory Science Courses on Student Learning and Success	Greg Pillar , Jennifer Daniel, Sydney Dishman, Fred DeAngelis, Shariva White, & Beth Stuart, Queens University of Charlotte, NC
363	Strengthening Student Engagement and Inter-campus Collaboration Through Community Connections in Hawai'i	Daniela Dutra-Elliott , Ann Emmsley, Sharadchandra Marahatta, & William Sakai, Leeward Community College
397	Hands-on Learning Contributes to Non-traditional Student Success in Natural Resources Management and Agriculture	Pamela Y. Scheffler , & Orlo C. Steele, Hilo Community College, Hilo, HI
83	A Celebration of Diversity: Heritage Plants	William S. Sakai , Zoe Banfield, Heather Coad, Nahoku Kahana, Risa Kabua Miyazoe, Jeffrey Yong, Russell Shiohita, & Marcia Y. Sakai, University of Hawai'i, Hilo, HI
352	Learning Management Systems to Improve Online Access for Students of the College of Agricultural Sciences-University of Puerto Rico-Mayaguez	Esbal Jimenez & Gladys Gonzalez, University of Puerto Rico
231	Utilizing Focused Atmosphere Seminars for Improvement of Career and Leadership Readiness of Women in Agriculture	Julie Weathers, Samantha Lowman , & David Mauk, Southeast Missouri State University
408	Mapping Pedagogy, Learning Outcomes, and Effect Size in Effective Educational Programming	Victor Harris , Brad Sewell, Christina Collingwood, & Sarah Ellis, University of Florida
400	The Purdue Arboretum's Native Nursery Supports and Extends Experiential Student Learning	Paul Siciliano , Purdue University
387	Taking Student Learning Styles in Course Development and Classroom Design	Govind Seepersad , Shivani Seepersad, The University of the West Indies, Dave Goorahoo, & Florence Cassel S., California State University - Fresno
385	Incorporating Entrepreneurship and Experiential Learning in Agriculture Courses	Dave Goorahoo , Florence Cassel S., California State University, Govind Seepersad, & Shivani Seepersad, University of the West Indies

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349	Forensic Laboratory and Active Learning Assignments Expose Minority and First Generation Students to Agricultural Programs	Trevor Stamper , Purdue University, IN

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334	Cultivating Student Success Through Diverse Experiences	Joy E. Morgan & Wendy J. Warner, North Carolina State University
325	"Flipping" Towards Alternative Careers in Animal Science	Kamilah E. Grant & Olga Bolden-Tiller, Tuskegee University
323	Expanding Global Learning Opportunities: The Development of a Pennsylvania State Youth Global Food Security Institute	Nicole Weaver, Twin Valley School District, Daniel Foster , & Melanie Miller Foster, The Pennsylvania State University
321	Animal Science Instructors' Perception of Abilities and Capabilities of their Students	Crystal A. Allen & W.L. Hurley, University of Illinois at Urbana-Champaign
332	Connecting Students to Hawaiian Culture through Alaskan Ethnobotany	Ann Emmsley , Pedro Oliveros, & Lyons Cabacungan, University of Hawai'i, Maui College
296	Digital Tools to Teach Chemistry in Agriculture	April Ulery , Laura White, Barbara Chamberlin, Jeanne Gleason, & Nicholas Beltran, New Mexico State University
341	Impacts of Mediasite Classroom Capture on Attendance and Final Grades in the Freshmen Course Introduction to Companion Animals	Kimberly Ange-van Heugten , North Carolina State University
278	Using the "Infomercial" as an Educational Tool	Mike Amstutz & Karen Bennett-Wimbush, Ohio State University ATI
274	Building Ecological Literacy through Challenge-Based Instruction and Culturally Relevant Pedagogy	Alexis Racelis , University of Texas - Rio Grande Valley
255	Increasing Youth Involvement in Agriculture, Food, and Natural Resources through Extension Support in Formal Education	Robert T. Bass , Sarah Morton, & James Anderson, Virginia Tech
169	Distribution Methods of Result Demonstration Results by County Extension Agents in Texas	Whit H. Weems , T. Wayne Atchley, G. Curtis Langley, Rudy S. Tarpley, Tarleton State University, TX, & Jeff Ripley, Texas A&M Extension

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250	Gridiron Challenge: Utilizing Sport as an Educational Platform to Reduce Cultural Gaps in Colleges of Agriculture	Kristina Ricketts, Bryan Hains, & Glenn Faulkner, University of Kentucky
248	Sunn Hemp as a Model Plant for Experiential Teaching and Learning	Christina L. Martiney, Sharadchandra P. Marahatta, Kaua'i Community College, Kevin Johnson, Kauai High School, & Ashly Trask, National Tropical Botanical Garden
247	Teaching Science, Technology, Engineering and Mathematics through Agriculture, Food and Natural Resources	Neil A. Knobloch & Hui-Hui Wang, Purdue University, IN
243	Forensic Plant Pathology: Enhancing U.S. Crop Biosecurity Through Multidisciplinary Graduate Education, Experience and Research	J. Fletcher, L.M. Ma, Francisco Ochoa-Corona, U. Melcher, C. Garzon, W. Schneider, A. Wayadande, & R. Allen, Oklahoma State University
240	Using Snapchat to Cultivate Feedback and Facilitate Engagement amongst Millennials	Brooke Prather, Tracy Rutherford, & Holli R. Leggette, Texas A&M University
307	Effect of Teaching Platform on Student Performance and Motivation	Mark J. Anderson, S.F. Kelley, M.M. Beverly, J.L. Leatherwood, & K.J. Stutts, Sam Houston State University, TX
228	Utilizing an Experiential Learning to Develop Curriculum Modules	Michael S. Retallick, Iowa State University, & Alisen M. Anderson, Northeastern Oklahoma A&M College
284	Measuring Student Outcomes in an Animal Handling Class	Kathi Jogan & Andrew Fidler, University of Arkansas

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276	Evaluation of an Online Master of Food Technology (MFT) Degree Program and Associated Courses	Lauren K. Hudson, Mark A. Harrison, & Judy A. Harrison, University of Georgia
268	Students Predicting and Reflecting on their Achievement in a Plant Identification Class	Samantha Green & Cynthia Haynes, Iowa State University
267	Mind Yourself: A Case Study in Celebrating Self-Management Skills	William Moore, Ann Martin, Gary Wingenbach, Tobin Redwine, Tracy Rutherford, Texas A&M University, & Wash Jones, Prairie View A&M University
253	Assessment of the Bioenergy Minor at Oregon State University	Micki Halsey-Randall, Darlene Russ-Eft, Zhenglun Li, & Katharine G. Field, Oregon State University
115	Utilizing a Modified Photo-elicitation Technique to Teach Complex Agricultural Concepts	Jennifer Strong, Texas A&M University
223	Usefulness of an Online Writing Improvement Tool for Agricultural Communications Courses	Leia Flure & Lulu Rodriguez, University of Illinois at Urbana-Champaign
209	Students' Perceptions regarding the Use of Technology in an Introductory Food Science Class	Ranjith Ramanathan, J. Shane Robinson, Deb L. VanOverbeke, Gretchen G. Mafi, & Dan Stein, Oklahoma State University
199	Effects of Animated Content on Students' Perceptions of Learning in a Web-Based Animal Disease Course	Derek Mosier, Jessica Green, Kent Nelson, Mal Hoover, Valerie York, Kansas State University, Gayle Brown, Kevan Flaming, & Jesse Hostetter, Iowa State University
189	High School Students' Career Motivation and Views of Agriculture upon Completion of a Pre-College Agricultural Sciences Program	Kaylie Scherer, Neil Knobloch, Amy Jones, & Myron McClure, Purdue University, IN
188	Evaluating Impact of an Electronic Communication Tool to Manage Insect Pests on Peppermint	Marvin Butler, Darrin Walenta, Clare Sullivan, Nicole Anderson, & Ralph Berry, Oregon State University
180	Effects of the iVetSchool Application on Veterinary Medical Students' Food Animal Knowledge	Matt Raven, Robert Malinowski, Robert Linford, Kent Ames, Jon Patterson, Jennifer Roberts, & Ann Rashmir-Raven, Michigan State University
318	Leadership Styles of Successful FFA Advisors and FFA Programs	Dwayne Pavelock, Zach Nowak, & Doug Ullrich, Sam Houston State University, TX
404	Clarity and Accuracy in Plagiarism Policies at Land Grant Institutions	Roger Brown & Alissa Rossi, University of Kentucky
297	Awareness and Utilization of On Campus Student Services for First Year Students	Cecil Shelton & Alyssa Bumbaugh, The Pennsylvania State University

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ENVIRONMENTAL LEADERSHIP

CTAHR student and UH Mānoa Sustainability Coordinator **Kristen Jamieson** made the 2016 Hawai'i Sustainability in Higher Education Summit a zero-waste event, earning a commendation from Hawai'i Gov. David Ige.

Four CTAHR dietetics students started a UH Food Recovery Network chapter and teamed up with campus food services to reduce waste and provide unused food to homeless shelters.



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295	Impact of Community Viability Grants on Education	Sarah Bush, Dana Hogg, Robert Bass , & Rick Rudd , Virginia Tech
285	Experiential Learning: Preparing Agriculture Majors for the Agriculture Workforce	Paula E. Faulkner , Taylor Johnson, North Carolina A&T State University, Jacques Surrency, & Archie Williams, Fort Valley State University
141	An Examination of Sustainability Behavioral Patterns of Students at Texas State University	Douglas Morrish , Dexter Wakefield, & Justin Pulley, Texas State University
273	Effectiveness of Online Instruction	Indi Braden , Southeast Missouri State University
270	Undergraduate Agricultural Business and Agricultural Economics Programs: How do we Identify?	Jeffrey Gillespie & Maria Bampasidou , Louisiana State University
256	Academic Entitled: What do Students and Faculty Think?	Donna L. Graham & Leslie D. Edgar , University of Arkansas
222	Public Speaking: Do Curriculum Opportunities Enrich Oral Communication of Undergraduates?	Courtney A. Crist & Susan E. Duncan, Virginia Tech
215	Recruiting Online: A Student Perspective of Social Media Use for Recruitment	Lauri M. Baker , Brooke Harshaw, & Kristina Boone, Kansas State University
211	Food Science Exploration Program for Outreach to High School Students	Adrienne E.H. Shearer & Kalmia E. Kniel, University of Delaware
259	Effectiveness of Course-Embedded Research to Address Multiple Student Learning Outcomes in an Analytical Chemistry Course	Greg D Pillar , Queens University of Charlotte
229	Long-term Impacts of a Faculty Development Program for the Internationalization of Curriculum in Higher Education	Emily Urban & Maria Navarro , University of Georgia
221	The Influence of Pre-College Experiences on Students' Decision to Enroll at Tarleton State University	Wayne Atchley, Ryan Smith , Randy Harp, & Rudy Tarpley, Tarleton State University, TX
190	Human-Animal Interactions in an Educational Setting Influence Student Heart Rate	Kimberly Cole & Kelly George, The Ohio State University
133	Secondary Agricultural Education Student Injuries and Other Accidents Sustained In An Agricultural Mechanics Laboratory	A. Preston Byrd , Clemson University, SC, Ryan G. Anderson , Iowa State University, & P. Ryan Saucier, Sam Houston State University, TX
172	Assessment of Student Scores in Agricultural Mechanics Career Development Events: An Investigation into Students Knowledge Base	Justin Pulley , Texas State University, G. Curtis Langley, Tarleton State University, TX, & Joe Muller, Sam Houston State University, TX

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238	Madison Teaching and Learning Excellence: An Innovative Early-Career Faculty Development Program at University of Wisconsin-Madison	Nick J. Balster , Megan Schmid, & Chris Castro, University of Wisconsin-Madison
351	CEEZAD BSL-3 Training/Transboundary Animal Diseases Summer Program	Jessica L. Green , J. Webster, S. Hober, & J.A. Richt, Kansas State University
331	Increase Industry Involvement in Dynamic Engineering Education	Semih Aslan , Michelle Londa, & Bahram Asiabanpour, Texas State University
308	Developing Research Skills in Undergraduate Students to Facilitate Admission and Success in Graduate Programs in Agriculture, Food and Related Sciences, University of Puerto Rico-Mayaguez	Gladys M. González , Ángel L. González, & Abner Rodríguez, University of Puerto Rico
293	SOFT and the Noelani First Grade Gardeners	Tiele-Lauren Doudt , Mitchell Loo, Thomas Lim, Theodore Radovich, Kathleen Sturgeon, & Lianne Morita, University of Hawai'i
271	Using a Flipped Classroom to Facilitate Course-Related Student Research	Holly A.S. Dolliver , University of Wisconsin - River Falls

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ENVIRONMENTAL CHALLENGE

Isolation and speciation have given Hawai'i an unusually high number of unique species. Many, including the Pulelehua or Kamehameha butterfly, are in decline. CTAHR student **Colby Maeda** monitors predation on eggs and larvae to find out why. He has won two best poster awards at the college's Student Research Symposia. His advisor heads the Pulelehua Project, which engages citizen scientists in reporting butterfly sightings to help create a statewide habitat map.



Caterpillar hunt
Colby Maeda

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207	Panic at the Potluck: Design and Implementation of a Web-based Game	Kalmia E. Kniel , Adrienne E. H. Shearer, Dallas G. Hoover, University of Delaware, David Abraham, Pamela Martinez, & Barbara Chamberlin, New Mexico State University
203	Teaching Quantitatively Rigorous Courses to Biology Students: A 'Semi-Flipped Classroom' Approach	Madan Oli , Jennifer Moore, & Elise Morton, University of Florida
196	Developing Students' Questioning Ability	Mike Amstutz , Karen Bennett-Wimbush, & Casey Meek, Ohio State University - Agricultural Technical Institute
191	Combining Reflective and Reflexive Journaling as a Tool for Technical Skill Development	Mallory Mobly, Tobin Redwine , & Tracy Rutherford, Texas A&M University
182	Establishing the Pipeline to Recruiting Minorities in Agricultural Education: A Phenomenological Approach in an Urban School in Illinois	Dexter Wakefield , Texas State University
174	Innovative Use of GoogleDocs™ to Engage High School and University Students in Experiential Learning using a Simulation Game	L. Art Wolfskill , Shyam S. Nair, & Foy D. Mills, Jr., Sam Houston State University, TX
162	Experiential Learning through Field Practice in an Undergraduate Crop Science Classroom	Erin K. Bosch & Michael W. Everett, Michigan State University
160	Integrating High-Impact Learning Experiences: Teaching Agricultural Leadership to Inmates at a Local Federal Prison	Robert Strong Jr. , Texas A&M University
156	A Comprehensive and Interdisciplinary Approach to Teach International Agriculture	Sathya Elavarthi , Marikis Alvarez, Delaware State University, & Lurline Marsh, University of Maryland - Eastern Shore
152	Developing Team-Oriented Tactical Skills in Crisis Planning and Management within an Established Agvocacy Course	Don Mulvaney , Auburn University, AL, & Virginia Morgan-White, Alabama Extension System
142	Empowering Students as Industry Ambassadors	Carrie L. Pickworth & Wendy J. Warner, North Carolina State University
138	Utilizing the Group Member Role Questionnaire to Assign Students to Teams	Jennifer Strong , Texas A&M University, & Laura Lemons, Mississippi State University
127	Integrative Stem in Urban Communities	Sarah J. Morton & Kathleen A. Jamison, Virginia Tech

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125	Cultivating Experiential Learning: Insights into the role of the Farm Operator on the Ag450 Farm	Gregory Vogel , Andrew 'OP' McCubbins, & Thomas H. Paulsen, Iowa State University
121	When Life Can Imitate Art: Using Theatre of the Oppressed in Youth Leadership Programs to Enhance Critical Awareness and Community Agency	Erika Pioltine Anseloni & Mark Brennan, The Pennsylvania State University
237	Cultivating Communication Style to Prepare Agricultural Communicators for Employment	Holli R. Leggette , Theresa P. Murphrey, & Stacey Dewald, Texas A&M University
110	Focusing on Partnerships for Faculty-Led Study Abroad Programs: Examples from Pennsylvania State University's Ag2Americas Initiative	Paige Castellanos , Melanie Miller Foster, & Ketja Lingenfelter, The Pennsylvania State University
109	Cultivating Professional and Engaging Social Media Voices	Holly Jarvis Whitaker & Holli R. Leggette , Texas A&M University
107	Teaching in Innovative Spaces: Curriculum That Complements the Space	Maria L. Stewart , University of Hawai'i at Mānoa, HI
103	Therapy Dogs Helping Students Reduce Stress	Kristie Franks, Stanley F. Kelley , & Marcy M. Beverly, Sam Houston State University, TX
173	The LEADERS Program: Encouraging Hispanic Students to Pursue Advanced Degrees in Animal Science	Kim McCuiston , Randy Stanko, Texas A & M University, & Clint Loest, New Mexico State University
153	Relationships between Psychological Type and Leadership Perceptions in Undergraduate Leadership Students	Kevin D. Herndon , Tracy Kitchel, & Jon C. Simonsen, University of Missouri
149	Is Class Size in an Introduction to Sustainability Course Related to Student Self-Efficacy?	Michael W. Everett & Matt R. Raven, Michigan State University
146	Educational Value of Human-Animal Interactions	Kelly A. George & Kimberly Cole , The Ohio State University
145	Agripharmatech Program Certificates: Pathways for Transfer to Four Year Higher Education Institution and Beyond	Charles Kinoshita, Donna Kuehu , & Ingelia White, University of Hawai'i at Mānoa, HI
134	Evaluation of Student Outcomes and Takeaways from a Food Microbiology Course	Lauren K. Hudson , Mark A. Harrison, & Judy A. Harrison, University of Georgia
131	Laboratory Management Professional Development Needs of Iowa Secondary Agricultural Education Teachers	P. Ryan Saucier, Sam Houston State University, TX, A. Preston Byrd , Clemson University, SC, & Ryan G. Anderson, Iowa State University
119	Self-Efficacy and Career Commitment as Predictors of Achievement in a Food Chemistry Course	Donald M. Johnson, Catherine W. Shoulders , Corliss A. O'Bryan, & Philip G. Crandall, University of Arkansas

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117	You Could Do Better: Developing Improved Outcomes for Global Education Programs	Noel B. Habashy , The Pennsylvania State University
210	Student Expectations and Perceptions of Graduate and Undergraduate Teaching Assistants in Laboratory Classes	Chelsea Ahlquist , Kim Kerschen, & Kevin Donnelly, Kansas State University
185	Exposing Undergraduate Students to the Extension Mission of Land Grant Universities Using a Course Field Trip	Chad Miller , Cheryl Boyer, & Allison Teeter, Kansas State University
164	Predicting Perceived Major Fit Among College Freshmen and Transfer Students	Abby N. Coy , Brandon C. Allen, Torrie A. Cropps, & Levon T. Esters, Purdue University, IN
159	Factors Influencing Freshmen's Decision to Major in Agriculture	Amy Jones , Tracie Egger, Dennis Buckmaster, & Levon Esters, Purdue University, IN
154	Agricultural Networking Night: An Alternate Career Development Activity	Christina Clark & Robert Williams, Texas A & M University - Commerce
140	Southwest Agriculture and Food Security Education (SAFE): Filling the Gaps of Underrepresentation	Douglas Morrish & Dexter Wakefield, Texas State University
137	STEP UP to USDA Career Success Program Participation Increased Graduation Rates and Final GPA of Undergraduate Agriculture Students from South Texas	Randy L. Stanko , Shad D. Nelson, Tanner J. Machado, Greta L. Schuster, Consuelo Donato-Molina, & Steven Lukefahr, Texas A&M University
179	Factors That Influenced Students to Attend Tarleton State University and Enroll In the College of Agricultural and Environmental Sciences	Wayne Atchley , Justin McGriff, Randy Harp, Rudy Tarpley, & Lea Ann Kinman, Tarleton State University, TX
130	The Children's Healthy Living Summer Institute: An Opportunity for Sustained Pacific Workforce Capacity Development	Marie K. Fialkowski , R. Novotny, M.K. Esquivel, A. Eichelberger, W. Meinke, H. Ngo, C. Kahalewale, T. Delormier, University of Hawai'i at Mānoa, HI, & J. Leslie, University of Hawai'i at Hilo, HI
129	Experiential Learning Experience of MSP Scholars	Guochen Yang , Louis Jackai, & Joshua Idassi, North Carolina A&T State University
123	EWE-TH CONNECT: A Curriculum for Educating Wyoming Youth about the Sheep Industry	Whit H. Weems , Cody Ann Bainter, T. Wayne Atchley, & Rudy S. Tarpley, Tarleton State University, TX
102	Adapting the Forest Management Planning Process to an Educational Plan Development at Virginia's Middleburg Agricultural and Research Extension Center	Dylan E. Dawson , Carolyn A. Copenheaver, Adam K. Downing, & Kim L. Niewolny, Virginia Tech
282	Urban Agritourism as an Educational Venue Addressing Local Food Insecurity	Bryan Hains , Jamie Yunker , & Kristina Ricketts, University of Kentucky

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112	Clarifying the Operationalization of Agricultural Literacy	Guang Han & Robert Martin, Iowa State University
108	Analysis of Identifiers of Vocational Identity of Animal Science Undergraduates	Alicia Schneider, David Rosch, & Walter Hurley , University of Illinois
101	Publication Patterns of Forestry Graduate Students: A Case Study from Virginia Tech	Carolyn A. Copenheaver , Virginia Tech, & Saskia van de Gevel, Appalachian State University
93	College Students Share Knowledge to Improve Student Attitudes Toward Animal Welfare and Develop Employment Skills	Kimberly A. Cash , B.C. Shanks, M.S. Aruguete, A.L. Bax and L.S. Wilbers, Lincoln University, MO, & J.D. Caldwell, Purina Animal Nutrition Center LLC
89	Impactful Themes of a Leadership Academy Experience	Laura Hasselquist , Ben Weikert, & Jon Simonsen, University of Missouri
57	Prioritizing Pertinent Components of a College-level Bioenergy Curriculum Using the Delphi Technique	Kimi Grzyb , Brian Hartman, & Katharine G. Field, Oregon State University
49	Pre-Course University Student Perceptions of Renewable Energy Sources	Edward A. Franklin , University of Arizona
328	A Campus Seed Share Initiative: Using Local Partnerships and Place-Based Learning to Strengthen Curriculum and Community	Daniela Dutra-Elliott , Natalie Wahl , & Alina Harris, Leeward Community College
193	Evaluating the Impact of a Required Agricultural Mechanics Unit of Instruction on Pre-Service Teachers	Alex Preston Byrd & James A. Thackston, Clemson University, SC
171	Impact of Food Science Professionals on Student Learning in an Academic Setting	Francine H. Hollis , The University of Tennessee, & Fulya Eren, ACH Food Companies, TN
128	Student Retention through Peer Mentoring in the College of Agricultural and Environmental Sciences at The University of Georgia	Victoria David , & Hugo Alexander Morán Chávez, University of Georgia
347	Exploring Innovation with Online Delivery Methods: A Blended Approach	Mary T. Rodriguez , The Ohio State University



FORGET SUGAR AND PINEAPPLE...

Hawai'i's leading commodity is seed corn, exceeding the \$152 million combined market value of tree nuts and fruit crops, according to the 2012 USDA Census of Agriculture.

In 2014, the state's top vegetable crops were head cabbage (by volume) and cucumbers (by farm gate value.)

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100	Student Perceptions of Immediate Feedback while Taking a Test	Donald M. Johnson & Catherine W. Shoulders , University of Arkansas
94	Outcomes from a Dialogue about Diversity in a Graduate Learning Community	Dustin Grabsch & Summer F. Odom , Texas A&M University
80	Student Learning With and Without Answers to Teaching Allowed Paired Problem Solving	Catlin Pauley , Alfred Conklin Jr., & Monte Anderson, Wilmington College
77	Lights, Camera, Action: Using InterviewStream to Prepare Students for Webcam Job Interviews	Carley Calico & Laura Lemons, Mississippi State University
76	Establishing Study Abroad Programs with Agricultural NGOs for North American Colleges of Agriculture Students to Gain Academic, Experiential and Transformative Knowledge: Opportunities and Challenges	Muthusami Kumaran , University of Florida
65	Alternative Course Formats: A Case for Learning	Melissa Hendrickson, Paulette Campbell , & Ronald Campbell, North Carolina State University
63	Building Global Agricultural Perspectives: Learning Outcomes of a Project Abroad	Laura Hahn & Prasanta Kalita , University of Illinois at Urbana-Champaign
60	The Student Centered Classroom, "Feed Your Microbiome: The New Gut Feeling"	Monika Oli , University of Florida, & Jennifer Lyles, Francis Marion University, SC
59	Fermentation Revival in the Classroom: Ancient Human Practices as Modern Health Fads	Jennifer Lyles , Francis Marion University, SC, & Monika Oli, University of Florida
58	Using Concept Mapping to Facilitate Teaching Abstract Conceptualization and Reflective Observation	Michael S. Retallick & Bryan Rank, Iowa State University
54	Interdisciplinary Learning of Energy through Integration of Socioeconomic Topics	Zhenglun Li & Katharine Field, Oregon State University
50	Learning Communities at Purdue University	John G. Graveel , Purdue University, IN
48	The Mock Well: A Solar Water Pumping Demonstration Project	Edward A. Franklin , University of Arizona
46	Cultivating Student Success Across a Greenhouse Curriculum	Christopher J. Currey, & Ann Marie VanDerZanden , Iowa State University
44	The Value of Exploring Agriculture in the United States	J.L. Stewart & Matt A. Kennedy , Oregon State University

NO.	TITLE	AUTHORS
37	Using Cooperative Learning Groups and Peer Teaching to Combat the Challenges Facing Veterinary Laboratory Courses	Amanda Bowling , David Cross, & Anna Ball, University of Missouri
8	Utilizing "Mystery" Ingredients as a Creative Teaching Tool to Develop Value Added Agricultural Products	Lorna Tsutsumi , Kawehi Lopez, Cheryl Yara, & Brandon Carvalho, University of Hawai'i, Hilo, HI
327	Innovate Approaches to Exploring Climate Change in the Pacific Islands	Terry Nipp , Hauhouot Diambra-Odi, Chris Pangelinan, Mari Marutani, Jim McConnell, & Lee Yudin, University of Guam
144	Collaborative Course Development: An Empirical and Interdisciplinary Investigation	Kasey L. DeAtley , Damon Aiken, James E. Downing, M.E. Matthews, & David E. McCoy, California State University
113	A Pre-Post-Test of Self-Regulated Learning in a Blended Agriculture Course	Ryan Rhoades , Boot Chumbley, & Stephanie Peace, Dick & Mary Lewis Kleberg College of Agriculture, TX
86	Students Gain More Knowledge from Hands-On Learning Activities Than Traditional Classroom Lecture	Laura M. White & K.M. Wells, New Mexico State University
81	Teaching Science through a Video Production Course	Rachel DeConna, Katie Stofer, & Ricky Telg , University of Florida
75	Can Student Publications and Conference Presentations be Used as an Assessment Tool?	Sharadchandra P. Marahatta , Valerie H. Henmi, Eman I. Gabour, Robert A. Petersen, Christina C. Martiney, & Jin-Wah Lau, Kaua'i Community College, Lihu'e, HI
53	Recruitment, Training, and Placement of Underrepresented Minorities in Forestry: Lessons from National Needs Master's Fellowship Program	Jacek P. Siry & Pete Bettinger, University of Georgia
52	Quality Seed Leads to a Bountiful Harvest: A Look at Internships	Dana J. Ladner & Kerry Wefald, Kansas Department of Agriculture
36	Development of a Junior Naturalist Curriculum Applicable to all Biogeographical Regions of South Carolina	Mallory K. Dailey , T.R. Dobbins, Christina M. Leard, & A.P. Byrd, Clemson University, SC
34	Using a Professional Certification Program to Cultivate Undergraduate Student Success	Kim J. Kerschen , Dana J. Ladner, & Kevin J. Donnelly, Kansas State University
30	Employment Competencies Desired by Agricultural and Natural Resource Industry Leaders	R.G. (Tre) Easterly III , Anna Warner, Brian Myers, Ricky Telg, & Alexa Lamm, University of Florida

NO.	TITLE	AUTHORS
23	Incorporating Assessment in the Design of a New Interdepartmental Program	Helen Spafford , Teresita Amore, Jonathan Deenik, Yao Hill, Andrew Kaufman, Kenneth Leonhardt, Michael Melzer, Scot Nelson, M'Randa Sandlin, Ania Wieczorek, Mark Wright, & Russell Yost, University of Hawai'i at Mānoa, HI
11	Co-Curricular High Impact Learning Practices: What Are They and How Do We Evaluate and Document Them?	Alan Hansen , Anna Dilger, Nicki Engeseth, Barbara Fiese, Kelly Freeman Bost, David Miller, Robert Schooley, Cory Suski, & Laurie Kramer, University of Illinois at Urbana-Champaign
5	Assessing Knowledge, Performance, and Consequence Competence in a Technology-Based Professional Development for School-Based Agricultural Educators: An Evaluation of the CNC Plasma Cutting Technology Workshop	P. Ryan Saucier & G. Curtis Langley, Sam Houston State University, TX
4	Excitement in the Classroom: An Active Learning Approach Toward Global Sustainability Issues in a Textiles Course	LaPorchia C. Davis , University of Maryland–Eastern Shore
95	Incorporating an Industry Focus Group to Assist in Developing a Master of Agriculture Degree in Sustainable Agriculture and Food Environment	Stanley F. Kelley , Marcy M. Beverly, & Dwayne Pavelock, Sam Houston State University, TX
92	Agripharmatech Student Ambassadors Introduce Advanced Plant Biosciences to Windward Intermediate and High School Students	Ingelia White, Michael Broady , Masami Deschamps , Lia Kim , Hongwei Li, & Teena Michael, Windward Community College, Kāne'ohe, HI
78	Demographic Survey of Animal Science Students Highlights Mismatch Between Experiences and Career Goals	Ryan N. Dilger , Tara L. Felix, & Anna C. Dilger, University of Illinois
74	Exhibitor Evaluation of a Community-Based Agricultural Literacy Program	Kauahi Perez & M'Randa R. Sandlin, University of Hawai'i, Mānoa, HI
72	The Learning Tornado: An Agriscience Comprehension Model	Peter Skelton , Thomas Dormody , & Patricia Dappen, New Mexico State University
40	4-H Afterschool Volunteer Training Program	Abby Coy & Levon T. Esters, Purdue University, IN
38	Internal and External Values Ascribed to College Major Choice by Students of Color in Agriculture and Life Sciences	Rachelle Purnell & James Anderson, Virginia Tech

NO.	TITLE	AUTHORS
32	International Course Development at the Program Level: Collaboration and Student Interest	Tammy M. Bennett & Robert D. Shannon, The Pennsylvania State University
26	Graduate Student Recruitment: Student Perceptions of Recruitment Strategies Utilized by a Southern Land-Grant University	Eric D. Rubenstein & Isis Blanco Vera, University of Georgia
15	Motivating Factors for Student Choice of Major: A Longitudinal Study	Christina Leard , Tom Dobbins, & Dale Layfield, Clemson University, SC
9	Impact of a Short-Term Study Abroad Program on Student Career Interests and Goals	Martellis D. Avent & K.S.U. Jayaratne , North Carolina State University
1	Teaching Assistant Perspectives on a Diversity and Social Justice Education Course for Collegiate Agriculture Students	Shalyse Iseminger , Lisa Young, Eric O'Rear, & Pamala Morris, Purdue University, IN
14	Assessing Curriculum Needs for the 4-H Animal Science Program in Iowa	Amy Powell & Greg Miller, Iowa State University
6	Professional Development Needs of Texas School-Based Agricultural Educators Regarding CNC Plasma Cutting Technology: A Snapshot Assessment Method	G. Curtis Langley & P. Ryan Saucier , Sam Houston State University, TX
114	Mechanical Aptitude of Underrepresented Agricultural Science Majors	Steven Boot Chumbley , Eastern New Mexico University, Portales
184	You Can't Handle the Truth! A Review of Literature of Attitudes of Spouses Toward Family Responsibilities of Agricultural Educators	Dexter Wakefield , Douglas Morrish & Justin Pulley, Texas State University
69	Ask the (Industry) Expert: Using Modified Delphi Survey Techniques as Part of Course and Curriculum Development	Helen Joyner (Melito) , University of Idaho, & Clint Stevenson, North Carolina State University
120	Making Sense out of Food: Sensory Stimulation as an Instructional Approach	Francine Hollis , University of Tennessee
136	Is Diversity on Their Minds? Perceptions of Diversity in an Agriculture Undergraduate Population Using a Multi-Method Survey	Tiffany A. Drape , Gabriel Anderson, Ambrosia Church, Sachi Jain, & Rebekah Slabach, Virginia Tech, Blacksburg
111	Farm Experiences Program: Experiential Learning in Agriculture with Local Farmers and Growers	Kalpalatha Melmaiee , Sathya Elavarthi, & Venu Kalavacharla, Delaware State University
356	Using the Undergraduate Research Course as a Tool to Develop Scientific Proficiency in the University of Puerto Rico - Aguadilla	Yadira Malavez , University of Puerto Rico
201	Teaching Climate Change: An Assessment of Available Educational Materials on Climate Change	Lauri M. Baker , Cassie Wandersee, Katie Rohling, & Peter Tomlinson, Kansas State University

Group 2A : Innovative Teaching
ROOM CC EXECUTIVE DINING ROOM

TIME	NO.	TITLE	AUTHORS
10:25	252	Reflective Narratives Mapped to Learning Objectives Prove More Beneficial than Quizzes	Mark A. Russell & A.E. Baldwin, Purdue University, IN
10:40	251	The Impact of Experiential Learning Dimensions for a Study-Abroad Program on Academic Learning in Food Science	Maria Navarro, Isis O. Blanco Vera, Quint Newcomer, & Ronald B. Pegg , University of Georgia
10:55	242	Facilitating Interdisciplinary Teaching and Learning in Agriculture	Eric Stubbs , Brian Myers, Kathryn Stofer, Laura Warner, & Kirby Barrick, University of Florida
11:10	235	Developing Innovative Student Projects for Comprehensive Review of Course Content	Randall Violett , Southern Utah University
11:25	224	Bringing Microeconomic Theory to Life	Kelly A. Grogan , University of Florida

Group 2B : Innovative Teaching
ROOM CC 203E

TIME	NO.	TITLE	AUTHORS
10:25	216	A SWOT Analysis of the Agriculture Courses for Dual-Credit Initiative	Robert L. Williams , Erin Fortenberry, Maggie Salem, Jackie Wahrmund, Caitlan Holtzman, Texas A&M University, & Shannon Arnold, Montana State University
10:40	214	“Beef It’s What’s For Dinner” Advocacy Service-Learning Project	Brittany J. Howell , Fort Hays State University, KS
10:55	208	Are College Students Too Old for Toys and Games?	Pamela J. Reed , Delaware Valley University
11:10	205	Case-based Gaming for Foodborne Diseases	Kalmia E. Kniel & Adrienne E.H. Shearer, University of Delaware
11:25	198	Integration of Project-Based Learning Into a Summer Bridge Program	Jay Well , Adam Talamantes, Renee O’Neil, & Katharine G. Field, Oregon State University



IT'S A FACT: Hawai'i is an agricultural microcosm. It has 11 of the world's 13 climatic zones and multiple soil types.

Group 2C : Learning Outcomes
ROOM CC 307

TIME	NO.	TITLE	AUTHORS
10:25	265	Mission Critical: Enhancing Students' Critical Thinking Skills Through Study Abroad	Gary Wingenbach , William Moore, Ann Martin, Tracy Rutherford, & Tobin Redwine, Texas A&M University, & Wash Jones, Prairie View A & M University
10:40	230	A Baseline for Learning Outcome Assessment: Lessons from Michigan State University	Murari Suvedi & Kelly Millenbah, Michigan State University
10:55	206	Examining the Challenges and Supports Identified by Underrepresented Minority Students Enrolled in STEM Programs within a College of Agriculture	Jonathan J. Velez , Aaron J. McKim, Katherine G. Field, Wanda K. Crannell, Lawrence R. Curtis, Penelope L. Diebel, Dave L. Stone and Katie Gaebel, Oregon State University, & Tyson J. Sorensen, Utah State University
11:10	346	Enhancing Student Learning: Exploring the Potential of Flipped Classrooms	Maria Navarro , University of Georgia
11:25	186	Learning to Write Like a Scientist: A Writing-Intensive Course in a Microbiology Field	Wesley M. Snyder , Katharine G. Field, & Kimi Grzyb, Oregon State University

Group 2D : Other Educational Topics
ROOM CC 308

TIME	NO.	TITLE	AUTHORS
10:25	292	Mentoring a Brighter Future: Retaining Millennial College Students	Shannon Norris , New Mexico State University, Shelly Sitton & Marshall Baker, Oklahoma State University
10:40	291	Community Innovation Lab as a 21st Century Social Science Experiment Station	Kristina Ricketts , Bryan Hains , & Ronald Hustedde, University of Kentucky
10:55	287	Identifying International Agriculture Concepts for School-Based Agricultural Education Curricula	Nathan W. Conner, University of Nebraska- Lincoln, Hailey Gates, Tennessee Technological University, & Christopher T. Stripling , The University of Tennessee
11:10	272	Agroecology as a Tool to Improve Science Capacity In Agriculture Through Participatory Research, Education, and Extension	Alexis Racelis , University of Texas-Rio Grande Valley
11:25	263	Computer Technology Competency Needs for Students Enrolled in Colleges of Agriculture	Puong Huynh, Theresa Pesl Murphrey, & Holli R. Leggette , Texas A&M University

Group 2E : Other Educational Topics

ROOM CC 309

TIME	NO.	TITLE	AUTHORS
10:25	257	Enhancing Student Success in International Programs	Maggie Jo Hansen & Leslie D. Edgar , University of Arkansas
10:40	241	Assessing Student Demographics in a Non-Land Grant Agriculture Program	Maria A. Boerngen , Justin W. Rickard, Stacey M. Lorenz, & Emelia Baker, Illinois State University
10:55	227	Food and Agricultural Education Information System Impact Study on Gender Representation in Colleges of Agriculture and Life Sciences from 2002-2013	Peter Ziegler & Susan Sumner, Virginia Tech
11:10	286	Perceptions Concerning Student-Instructor Interaction using the IDEA Student Evaluation	Mark .J. Anderson , J.L. Leatherwood, K. J. Stutts, M. M. Beverly, & S. F. Kelley, Sam Houston State University
11:25	370	Utilizing Social Network Analysis in a Team-Based Learning Formatted Capstone Course	OP McCubbins , Thomas. H. Paulsen, & Ryan Anderson, Iowa State University

Group 2F : Scholarly Research

ROOM CC 310

TIME	NO.	TITLE	AUTHORS
10:25	135	Using Concept Map Activities to Show an Increase of Student Knowledge	Jennifer Strong & Barry Boyd, Texas A&M University
10:40	124	Comparison of Teacher Competence in Agricultural Mechanics among Traditionally and Alternatively Certified Agricultural Education Teachers	Robert Frutchey , Ryan Anderson, Thomas H. Paulsen, Iowa State University, & A. Preston Byrd, Clemson University, SC
10:55	122	The Importance of Agricultural Mechanics Skills Training: Implications for Post-Secondary Education	John Rasty & Ryan Anderson, Iowa State University
11:10	99	Promoting Faculty Teaching Excellence and Supporting Student Learning in Colleges of Agriculture	Catherine A. DiBenedetto & Ted Whitwell, Clemson University, SC
11:25	33	Participants' Perceived Importance and Application of Mentoring @ Purdue Program Seminars and Workshops <i>(NEW TIME)</i>	Brandon Allen , Neil A. Knobloch, & Levon T. Esters, Purdue University, IN

friday 10:15 a.m.–noon

Concurrent Presentations 3

Group 3A : Innovative Teaching

ROOM CC EXECUTIVE DINING ROOM

TIME	NO.	TITLE	AUTHORS
10:15	197	Assessing Agricultural Leadership Academic Programs at 1862 Land-Grant Institutions	Jackson Alexander , K. Jill Rucker, Donna L. Graham, Jefferson D. Miller, & Jason Apple, University of Arkansas
10:30	194	Using Weekly Reflective Academic Journals to Track Learning in Content Heavy Classes	Douglas L. Vincent , University of Hawai'i at Mānoa
10:45	187	Cultivating Effort in Study Abroad: An Innovative Team Teaching Approach	Tobin Redwine , Tracy Rutherford, Gary Wingenbach, Texas A&M University, & Wash Jones, Prairie View A&M University
11:00	183	FFA, Why Are We Here? The Hispanic/Latino Perspective	Dexter Wakefield , Douglas Morrish, Texas State University, & Douglas LaVergne, Texas A&M University - Commerce
11:15	178	Mentoring the Mentor: Supporting Mentor Outcomes in an Innovative College Student Peer Mentoring Program	Kaitlyn A. Murray , Jeffery A. Hattey, & Jeff King, The Ohio State University
11:30	176	Integrating Applied Learning Experiences into an Agricultural Communication Program	T. Wayne Atchley , Diane Taylor, Whit H. Weems, Sandy Graham, & David Frazier, Tarleton State University, TX
11:45	170	Enhancement of Student Engagement and Interaction in Online Courses through Implementation of a Scholar-ignite Program	Brian J. Pearson & Kimberly A. Moore, University of Florida

Group 3B : Innovative Teaching

ROOM CC 203E

TIME	NO.	TITLE	AUTHORS
10:15	161	Teaching Tools for Agricultural Literacy and Science-Informed Decision-Making	Jenny Daurer , University of Nebraska-Lincoln, NE
10:30	148	Student-Centered Teaching with Problem Based Learning	Xinlei Wang , University of Illinois Urbana-Champaign
10:45	126	Curriculum for a Career Designed Internship	Sandra Graham , Whit Weems, & Wayne Atchley, Tarleton State University, TX

TIME	NO.	TITLE	AUTHORS
11:00	118	Establishing Teaching Efficacy through a Books for Agricultural Education Reading Program	Catherine W. Shoulders , University of Arkansas, & Travis Park, North Carolina State University
11:15	105	Using Video as a Teaching Aid to Help Students Evaluate Themselves in Equitation Classes	Lee Wood , Southern Utah University
11:30	97	Exploring Integration of Research into Teaching at National Agrarian University La Molina, Peru	Carlos Gómez , Silvia Morales, & Jan Elen, University La Molina, Peru
11:45	91	Strengthening Agripharmatech Program through Pathway Certificates and Partnerships with Hi'ilaniwai Food Service and Windward Schools	Ingelia White, Hongwei Li, Teena Michael, & Charlene Akina , Windward Community College, Kāne'ohe, HI

Group 3C : Innovative Teaching

ROOM CC 307

TIME	NO.	TITLE	AUTHORS
10:15	88	How to Organize and Deliver an Online Class to Meet Student Learning Expectations?	K.S.U. Jayaratne & Gary Moore , North Carolina State University
10:30	84	Breaking News! Using Current Events and Social Media to Teach Power and Influence	Laura Lemons , Mississippi State University, Penny Weeks, Oklahoma State University, & Scott Burris, Texas Tech University
10:45	82	A Pedagogical Approach for "Wicked Problems"	Michelle R. Worosz , Auburn University
11:00	73	Using a University Class to Develop and Test an 8th Grade Climate Science Curriculum	Thomas Dormody, Peter Skelton , Hannah Parker, Tessa Lee, Cassie Jaquez, Dallas Dooley, & Sheldon Church, New Mexico State University
11:15	71	Instructional Techniques that Cultivate Writing Skill Mastery	Holli R. Leggette , Holly Jarvis Whitaker, & Brooke Prather, Texas A&M University
11:30	68	Planning for Success: Student Preflection on the Impacts of Behavioral Styles on the Success of a Course Project	M'Randa R. Sandlin & Melissa R. Price , University of Hawai'i at Mānoa, HI
11:45	66	Picture This! Using Images to Stimulate Nonlinguistic Reflection in Undergraduate Agriculture Courses	Carley Calico , Laura Lemons, Mississippi State University, & Catherine W. Shoulders, University of Arkansas



IT'S A FACT: Agtourism is a \$1.1 million industry for Hawai'i.

Group 3D : Learning Outcomes

ROOM CC 308

TIME	NO.	TITLE	AUTHORS
10:15	167	Assessment of Strengths-Based Leadership Domains and Their Impact on Student Academic Success	Deborah L. VanOverbeke & Amy R. Gazaway , Oklahoma State University
10:30	158	The Effects of an Introductory Agriculture Curriculum on Student Knowledge and Perceptions of Agriculture	Timothy Bradford Jr., Gaea Hock, Laura Lemons , & Alayna Naro, Mississippi State University
10:45	157	Creating Learning Outcomes and Rubrics for Education Abroad	Kelly A. Newlon & Kelly A. George , The Ohio State University
11:00	143	Cultivating Advocacy Skills and Content Knowledge: An Evaluation of a Course Project	Carrie L. Pickworth & Wendy J. Warner , North Carolina State University
11:15	90	Cultivating Successful Participation and Outcomes in International Experiences: Students' Evaluation of the Pre-Departure Course for Study Abroad	Jan D. Brooks & Sarai Coba-Rodriguez , University of Illinois Urbana-Champaign
11:30	85	Knowledge Gain and Student Perception of Experiential Learning Activities	Laura M. White & K.M. Wells , New Mexico State University
11:45	64	A College-Wide Project to Improve Student Writing	Tom Dormody , Keith Mandabach, David Cowley, Ram Acharya, Ryan Goss & Dawn VanLeeuwen, New Mexico State University

Group 3E : Other Educational Topics

ROOM CC 309

TIME	NO.	TITLE	AUTHORS
10:15	202	Extension Program Planning: Volunteer Perceptions of the Purpose of Extension Program Area Committees	Whit H. Weems , Tarleton State University, TX, Chris T. Boleman, Texas A & M Extension, & David E. Lawver, Texas Tech University
10:30	195	Creation and Implementation of a Campus-wide Grant Award Program Recognizing Whole Departments for Excellence In Education	Don Mulvaney & Jim Groccia , Auburn University, AL

TIME	NO.	TITLE	AUTHORS
10:45	181	Cultivating Faculty Success Through the Peer Review of Teaching	Anne Spafford , Bryce Lane, & Wendy Warner, North Carolina State University
11:00	168	Teaching-Mentoring Experiences of Faculty in a College of Agriculture and Life Sciences	Wendy J. Dahl , Ricky W. Telg, Anthony C. Andenoro, Michael G. Andreu, Xin Zhao, & R. Elaine Turner, University of Florida
11:15	166	Some Observations Relative to Entering First Year Students Majoring in Animal Science	Michael O. Smith , University of Tennessee
11:30	165	Outcomes and Experiences of Students Participating in an International Horsemanship Program	Jessica L. Leatherwood , M. M. Beverly, M. J. Anderson, K. J. Stutts, & S. F. Kelley, Sam Houston State University, TX
11:45	155	Homeschooled Students' Access to Participate in School-based Agricultural Education Programs	Matthew Kararo & Neil Knobloch , Purdue University, IN

Group 3F : Scholarly Research

ROOM CC 310

TIME	NO.	TITLE	AUTHORS
10:15	87	Student Motivation and Valuing of Active Learning Strategies in Large Lecture Agricultural Undergraduate Courses	Amanda Bowling , John Tummons, & Anna Ball, University of Missouri
10:30	79	Finding Balance in Undergraduate Research for Graduate School and Career Preparation in Agricultural Sciences	Shad D. Nelson , Randy Stanko, Tanner Machado, Greta Schuster, & Consuelo Donato-Molina, Texas A&M University
10:45	70	Using Curriculum Mapping and Assessment Techniques to Evaluate a Food Science Curriculum	Helen Joyner (Melito) , University of Idaho
11:00	67	Listening and the Agricultural Workforce	Laura Hasselquist & Tracy Kitchel, University of Missouri
11:15	47	Intentional Reflective Practice to Wrap-up the Semester	Ann Marie VanDerZanden , Iowa State University
11:30	25	A Model to Predict a Student's Intention to Study Abroad	Melissa Hendrickson , Elizabeth Wilson, Jay Jayaratne, & Wendy Warner, North Carolina State University
11:45	311	Not Just Another Webinar: Innovation in Online Professional Development	Daniel Foster & Melanie Miller Foster, The Pennsylvania State University

friday 1:30–2:45 p.m. Concurrent Presentations 4

Group 4A : Innovative Teaching

ROOM CC EXECUTIVE DINING ROOM

TIME	NO.	TITLE	AUTHORS
1:30	56	Novel Education Abroad Experience Via Advanced Seminar Course Structure	Soo-Yeun Lee , Prasanta Kalita, Kim Graber, & Laurie Kramer, University of Illinois at Urbana-Champaign
1:45	55	A Picture's Worth a Thousand Words: Using Images to Engage Online and On-campus Students in Meaningful Reflection	Catherine W. Shoulders , University of Arkansas, & Carley Calico, Mississippi State University
2:00	51	Cultivating Student Learning through Undergraduate Interdisciplinary Research: Creative Inquiry	Christina Leard, Jesse Blount , & Tom Dobbins, Clemson University, SC
2:15	45	Student Reflections on Service-Learning in a Greenhouse Hydroponic Food Production Course	Christopher J. Currey & Ann Marie VanDerZanden , Iowa State University
2:30	42	Augmenting Reality in a Plant Science Lab	Christian M. Baldwin & Gaea Hock, Mississippi State University

Group 4B : Innovative Teaching

ROOM CC 203E

TIME	NO.	TITLE	AUTHORS
1:30	41	Compound Teaching and Learning	Dennis R. Buckmaster , Purdue University, IN
1:45	29	Producing Teachers with a Balance of Content and Pedagogical Knowledge: Recommendations for Success	Eric D. Rubenstein , Nicholas E. Fuhrman, Amber H. Rice, & Frank B. Flanders, University of Georgia
2:00	28	Small Animals in the College Classroom: Student Reactions and Educator Recommendations	Nicholas E. Fuhrman & Eric D. Rubenstein, University of Georgia
2:15	21	Developing Project Based Learning for Agricultural Systems Technology Courses	Michael L. Pate , Kelsey Hall, Bruce E. Miller, F. Richard Beard, & Royce Hatch, Utah State University
2:30	20	Bee Smart: The Buzz on Pollination and Pollinators	Kellie Taguchi & Charles Kinoshita, University of Hawai'i, Mānoa, HI

Group 4C : Innovative Teaching

ROOM CC 307

TIME	NO.	TITLE	AUTHORS
1:30	18	The Use of a Learning Game: Trot to Trophy, in Equine Science	Shannon Pratt-Phillips , North Carolina State University
1:45	306	Service Knowledge Gained from Service Learning in an Undergraduate Sales Class	W. Scott Downey , Purdue University, IN
2:00	3	Census of Baccalaureate Agriculture Teacher Education Programs in the United States	R.G. (Tre) Easterly III , Brian E. Myers, University of Florida, & Christopher T. Stripling, University of Tennessee
2:15	2	Mexican Agriculture Students Learn about the United States Cooperative Extension Model	Maria G. Fabregas Janeiro , University of California, & Jorge H. Atilas, Oklahoma State University

Group 4D : Learning Outcomes

ROOM CC 308

TIME	NO.	TITLE	AUTHORS
1:30	61	Creating a Cadre of Critical Thinking Scholars	Kim Dooley , Jenna Kurten, & Barry Boyd, Texas A&M University
1:45	43	ShortKeys: The Key to Efficient Grading Online	Matt Kennedy , Oregon State University
2:00	31	Learning Outcomes Assessment: Can Engaged Scholarship Experiences Improve Student Learning?	Robert D. Shannon & Tammy M. Bennett, The Pennsylvania State University
2:15	27	Addressing Food Insecurity via a Participatory Approach to International Service Learning	Dennis W. Duncan , Nicholas Fuhrman, & Eric Rubenstein, University of Georgia
2:30	12	Is an Online Gathering Place Important for Distance Education Student Success? A Comparison of the Perceptions of Online Professors and Students	Gary Moore , Wendy Warner, David Jones, North Carolina State University, & Jane Bachelor, University of Florida



IT'S A FACT: Hawai'i aquaculture has a market value of \$56 million, according to the latest USDA census.

Group 4E : Other Educational Topics

ROOM CC 309

TIME	NO.	TITLE	AUTHORS
1:30	116	Influences in Students Choosing Majors in Agriculture	Willa Williams , University of Missouri, & Linda Okiror, University of Arkansas at Pine Bluff
1:45	96	Student Definition and Perception of Sustainable Agriculture	Marcy M. Beverly , Stanley F. Kelley, Philip Urso, & Cody Wellmann, Sam Houston State University, TX
2:00	35	Online Management of Experiential Learning Process and Grading	Paul D. Siciliano & Jeannette A. Moore , North Carolina State University
2:15	225	Connecting with Students: Online Tools to Help with Retention	Lauri M. Baker , Brooke Harshaw, & Kristina Boone, Kansas State University

Group 4F : Other Educational Topics / Scholarly Research

ROOM CC 310

TIME	NO.	TITLE	AUTHORS
1:30	22	Farmers' Utilization of Auto-guidance Technology and Training Needs	Thomas Bleazard, Michael L. Pate , Rebecca G. Lawver, Clark Israelsen, & Royce Hatch, Utah State University
1:45	150	Agricultural Education Pre-service Teachers' Perceived Competence in an Advanced Agricultural Mechanics Course	John C. Ewing & Rama Radhakrishna, The Pennsylvania State University
2:00	17	Use of Supplementary Materials in a Distance Education Equine Science Class	Shannon Pratt-Phillips & Taylor Knittel, North Carolina State University
2:15	10	Major Commitment as a Predictor of Student Success	Rachel Jackson , Cindy Akers, David Doerfert, Todd Brashears, Erica Irlbeck, & Troy Tarpley, Texas Tech University
2:30	234	Student Interest is the Strongest Determinant of Success in Introductory College Courses Related to Environmental Science	Nick J. Balster , Melanie A. Spero, & Mark Banghart, University of Wisconsin-Madison



IT'S A FACT: From lavender to exotic florals, Hawai'i nurseries and greenhouses generate \$80 million. Floriculture helped diversify post-plantation agriculture.

WORKSHOP 1: EXECUTIVE DINING ROOM

USDA-Sponsored Workshop — **Boosting Student Enrollment: Successful Recruitment Courses in Food and Agricultural Sciences**

Facilitator: Maria Stewart, University of Hawai‘i at Mānoa

Panelists: Dr. Thomas Famula, University of California, Davis

Student recruitment and enrollment in food and agricultural science degree programs is a priority at many institutions. Because many college students are unaware of careers in food and agricultural sciences, their first exposure to these careers and fields of study may be in introductory level courses such as “Humans, Animals, and Agriculture,” “The Science of Human Nutrition,” and “Tropical Crop Science.” This workshop will provide examples of how food and agricultural degree programs attract students to their courses, such as fulfilling a general education requirement. This workshop will address instructional strategies for the classroom to attract and retain students in food and agricultural sciences. The workshop will include brief presentations by invited speakers followed by a panel discussion.

WORKSHOP 2: CC 203E

Teaching Indigenous Agriculture: Hawaiian Approaches to Integrate Traditional Crops and Cropping Systems in Today’s Training Programs and Curricula

Facilitator: Tiare Silvasy, University of Hawai‘i at Mānoa

Living in a remote island, the indigenous people of Hawai‘i knew that the health of the ‘āina (land) is central to the health of the people. As such, cultural and ‘āina based learning are strongly represented in post-secondary curriculum. The Hawaiians managed their agricultural systems in a highly advanced manner because of their intimate knowledge of the land and their ability to cultivate their crops in diverse environments. There is a dedicated effort to keep these indigenous agricultural practices alive in both agricultural and Hawaiian studies programs. In this workshop you will learn unique strategies being used to teach indigenous agricultural practices in Hawai‘i, as well as the benefits to the learners, the community and the land. This workshop will also include interactive group activities to explore how to further cultural and ‘āina-based teaching approaches.



WORKSHOP 3: CC 307

Quality Seed Variety Leads to a Bountiful Harvest: A Look at Internships

Facilitator: Dana Minihan Ladner, Kansas Department of Agriculture

Experiential learning opportunities, to include internships, are viewed as valuable tools for undergraduate student success. A variety of quality seeds are required for a bountiful student experience to include: interested students, faculty advisors, administrators, career services personnel, and industry partners. This workshop discusses internships across disciplines. Findings from a January 2016 survey to NACTA members will be presented. An employer panel will follow to discuss the significance of internships and a round-table dialogue will cover the value of internships from an academic perspective.

WORKSHOP 4: CC 308

Assessment – Not a 4-Letter Word! Meaningful and Manageable Strategies for Assessing Student Learning Outcomes

Facilitator: Karen Cachevki Williams, University of Wyoming, Laramie

Student learning outcomes for undergraduate and graduate student programs can be challenging to create and even more challenging to assess. This workshop will begin by defining student learning outcomes and show how they can be created based on what your course or program finds most meaningful. It will then progress to look at how to make decisions about approaches to assessment, including how to write or use rubrics (such as AAC& U’s VALUE Rubrics) for assessing student learning outcomes. Examples and case studies will be shared from programs in the University of Wyoming College of Agriculture and Natural Resources and other campus programs. Attendees are encouraged to bring course, program, and/or college student learning outcomes for discussion and small group work sessions.

WORKSHOP 5: CC 309

Advancing Your Scholarly Teaching into the Scholarship of Teaching and Learning (SoTL)

Facilitators: Ann Marie VanDerZanden and Cindy Haynes, Iowa State University

Scholarly teaching focuses on student learning. It is grounded in the subject matter being taught and in the implementation of effective pedagogies. The overarching objective of this workshop is to outline a framework and provide a stepwise process to guide faculty in developing a publishable scholarship of teaching project. Upon completion of the

workshop participants will have: 1) identified and developed a researchable question; 2) developed a framework and protocol for data collection; and 3) completed a project timeline including milestones.

WORKSHOP 6: CC 310

Strategic Study Abroad Course Development and Assessment

Facilitator: *Laura White, New Mexico State University*

Meaningful international study programs should include two components. First, the U.S. participants should develop new competence in global agricultural education. Equally important is how the program will have a positive effect on the non-U.S. institution and people, addressing what we leave behind for their betterment and hopefully avoiding the “ugly American” syndrome of taking advantage of the host institution and “we are from the U.S. and we are here to tell you what to do.” This presentation will address five major components of a successful international agricultural education program engagement: 1) Developing the course and the in-country experience, 2) Recruiting and selecting participants, 3) Orientation, 4) Travel and in-country activities, and 5) Assessing learning, including knowledge gain, reflection, and post-travel dissemination activities. Two programs will be highlighted to give multiple perspectives.



Conference Planning Committee

Thank you to UH System employees for their work in planning this year's NACTA Conference.

Charles Kinoshita, Committee Chair
College of Tropical Agriculture and Human Resources
University of Hawai'i at Mānoa

Ingelia White
Department of Natural Sciences
Windward Community College

Ronald Takahashi
Culinary Arts Program
Kapi'olani Community College

College of Tropical Agriculture and Human Resources staff members:

Steven Chiang
Agribusiness Incubator Program

Kellie Taguchi
Joel Bumanglag
Mandy Chen
Academic and Student Affairs

Cheryl Ernst
Communication Services

COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES PEOPLE, PLACE, PROMISE SINCE 1907

All in the 'Ohana



The professional organization named CTAHR PhD student **Emily Teng** one of just six HortScholars in the nation. She does research on poinsettia pigmentation to help local growers.

All in the 'Ohana



CTAHR alumnus and Small Business Administration Young Entrepreneur of the Year **Sean Aukanaii Fong** sells grasses requiring less water and fertilizer and grown on composted green waste.

All in the 'Ohana



Chino Cabalteja, now a PhD candidate at the University of Pittsburgh, won UH Mānoa's top student research award. He evaluated cone snail toxin peptides for potential new pesticides and pharmaceuticals.



'ĀINA (*land*) comes from the Hawaiian word 'ai (*to eat*) because it is the land that feeds us.

Taro at CTAHR's Waimānalo Research Station



'AHUPUA'A Native Hawaiians identified wedge-shaped land divisions from mountain crest into the sea that were self-sustaining, with interrelated elements and beings.

CONFERENCE AT A GLANCE

6.21 *tues.*

11 AM - 3 PM
**NACTA EXECUTIVE
COMMITTEE
MEETING**
UHM CC 307

4:30 - 6:30 PM
REGISTRATION
KAPĪ'OLANI
COMMUNITY COLLEGE

5:30 - 7:30 PM
**WELCOME
RECEPTION**
KAPĪ'OLANI
COMMUNITY COLLEGE

9:45 AM - 12 PM
**CONCURRENT
PRESENTATIONS**
UHM CAMPUS CENTER

12 - 1 PM
LUNCH (VOUCHERS)
UHM CAMPUS CENTER

1 - 3:10 PM
POSTER SESSION
UHM CC BALLROOM

6 - 9 PM
LŪ'AU
WINDWARD
COMMUNITY COLLEGE

10:25 - 11:40 AM
**CONCURRENT
PRESENTATIONS**
UHM CAMPUS CENTER

11:40 AM - 12:30
PM
BOX LUNCH
UHM CAMPUS CENTER
BALLROOM

12:30 - 6 PM
TOURS
DEPART FROM UHM

10:15 AM - 12 PM
**CONCURRENT
PRESENTATIONS**
UHM CAMPUS CENTER

12 - 1:30 PM
**NACTA BUSINESS
LUNCHEON**
UHM CC BALLROOM

1:30 - 2:45 PM
**CONCURRENT
PRESENTATIONS**
UHM CAMPUS CENTER

3 - 5 PM
WORKSHOPS
UHM CAMPUS CENTER

5:30 - 8:30 PM
**NETWORKING
& AWARDS
BANQUET**
UHM CAMPUS CENTER
BALLROOM

6.22 *wed.*

7:30 AM - 3 PM
REGISTRATION
UHM CC BALLROOM
FOYER

7:30 - 8 AM
BREAKFAST
UHM CC BALLROOM

8 - 9:30 AM
OPENING SESSION
UHM CC BALLROOM

7:30 AM - 12 PM
REGISTRATION
UHM CC BALLROOM
FOYER

7:30 - 8 AM
BREAKFAST
UHM CC BALLROOM

8 - 10:10 AM
POSTER SESSION
UHM CC BALLROOM

7:30 - 9 AM
REGISTRATION
UHM CAMPUS CENTER
BALLROOM FOYER

7:30 - 9 AM
**BREAKFAST
AND NACTA
COMMITTEE
MEETINGS**
UHM CC BALLROOM

9 - 10 AM
**BLUE-RIBBON
PRESENTATION**
UHM CC BALLROOM

6.24 *fri.*

6.25 *sat.*

9 - 12 PM
**NACTA EXECUTIVE
COMMITTEE
MEETING**
ALA MOANA HOTEL

FOR DETAILED SCHEDULE, SEE PAGE 8

SAVE THE DATE:



June 28-July 1, 2017

- INnovation,
- IN Learning,
- IN the Heartland



www.conf.purdue.edu/NACTA2017