



# NACTA JUNE 28 – JULY 1 *2017*

INnovation, IN Learning, IN the Heartland

Purdue University, West Lafayette, Indiana

On behalf of Purdue Agriculture, I am delighted to welcome you to the 63rd Annual NACTA Conference! We're honored to host this year's event to advance the scholarship of teaching and learning.

Indiana agriculture is a \$30+ billion industry. Yes, you saw plenty of corn and soybeans on your trip to our campus. And, we are also a major producer of pork, poultry (especially ducks and turkeys), eggs, and milk. But, Indiana agriculture is also melons, tomatoes, popcorn, mint, and hardwood lumber and forest products. Beyond production agriculture, this is a state committed to the development of the next generation of agricultural technology through creative public/private partnerships.

We could not be more passionate about our land-grant mission at Purdue. And, it's an exciting time here: our undergraduate enrollment across our 11 academic departments was 2736 in Fall of 2016, our highest enrollment since 1982.

We are excited to be part of the University's Purdue Moves initiative with the launch of our Plant Sciences Institute, and we are looking forward to moving into a new home for our Animal Sciences Department this fall – with a new home for Agricultural and Biological Engineering coming in 2020.

Indiana continues to enjoy a strong county Extension network, while at the same time launching new campus-based initiatives such as the Center for Commercial Agriculture. Internationally, we launched a new initiative focused on post-harvest storage and processing last fall.

Like you, we work hard to keep the first land-grant mission – our teaching mission – at the center of all we do. To that end, the University has made major commitments to reshaping the way we teach through programs such as IMPACT, and will be opening the new Wilmeth Active Learning Center this fall that will redefine the concept of the university library.

It is a dynamic and exciting time in education and events like this NACTA Conference give us the chance to think boldly about how we approach our fundamentally important responsibility of preparing the next generation of agricultural leaders. Beyond the conference, we sure hope you'll have an opportunity to experience some of the attractions here in West Lafayette/Lafayette and the mid-North Indiana region.



Again, welcome to Purdue and have a great conference!

All the best,

A handwritten signature in black ink that reads "Jay T. Akridge".

Jay T. Akridge  
Glenn W. Sample Dean of Agriculture

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Purdue University Campus Map ..... Back Cover



**BETH BECHDOL**  
**KEYNOTE SPEAKER**

**"Indiana's Agbiosciences – Creating a Movement, Forcing Collisions, and Growing Talent"**

With a true fit to the 2017 NACTA conference theme of *INnovation IN learning IN the Heartland* the

keynote speaker is Ms. Elizabeth Bechdol.

Beth was raised, sixth-generation, on a corn and soybean farm near Auburn, Indiana. She received her bachelor's degree from Georgetown University in International Law and International Affairs and has a master's degree from Purdue University in Agricultural Economics.

Beth is Ice Miller's (legal firm in Indianapolis) Director of Agribusiness Strategies. She has served as the president of the Agribusiness Council of Indiana and was the former deputy director of the first-ever Indiana State Department of Agriculture. Beth spent over a decade in Washington, D.C. with Informa Economics and serving in key roles at the U.S. Department of Agriculture and on the Senate Agriculture Committee under Indiana Senator Richard G. Lugar.

Beth serves on numerous professional and community boards – many related to agriculture – including the National FFA Board of Trustees, the Purdue Research Foundation, Ag Alumni Seed, the Farm Foundation Bennett Roundtable, the Indiana State Fair Commission, and the Indiana Humanities Council. She is also a proud recipient of Purdue Agriculture's Distinguished Ag Alumni award and was a Purdue Alumni Association "40 Under 40" honoree.

Beth has been a driving force behind the launch of AgriNovus Indiana and serves as the organization's President and CEO. AgriNovus Indiana strives to be the catalyst to promote, advance and grow the State's agbiosciences sector. Under Beth's leadership, AgriNovus has brought together business, university, philanthropic and government stakeholders all with the goal of positioning Indiana as a nationally recognized leader in food and agricultural innovation – specifically in four key sectors including plant science, animal health and nutrition, human food and nutrition and high tech agriculture. Today, AgriNovus is focused on telling the 21st century story of the agbiosciences, building a robust talent and workforce pipeline, and supporting entrepreneurs and start-up businesses.



## JEFFORY A. HATTEY

### BLUE RIBBON SPEAKER

#### “Are You My Teacher?”

Dr. Hattey is from a family farm near Kansas City, MO where he explored the ponds, creeks and fields looking for fossils and animals. As a teenager he finished high school in Albuquerque, New Mexico where he met his wife Susan, nurtured his interest in wildlife and plants

which ultimately led him to the study of soil science.

A Bachelor of Science from the University of Central Missouri in Agriculture was followed by his M.S. and a Ph.D. studies at the University of Arkansas in Agronomy with a research emphasis in soil chemistry/fertility. He has held positions as post-Doctoral Fellow at Auburn University and moved through the ranks to Professor in soil and environmental sciences at Oklahoma State University where he also held the Dillon and Lois Hodges Professorship of International Agriculture. Currently Dr. Hattey is Assistant Dean in Academic Programs at The Ohio State University with primary responsibilities in student success.

Teaching responsibilities for Dr. Hattey have included: introductory soil science, soil and water conservation, and environmental capstone, study abroad, and more recently freshman orientation. He mentored 15 students who entered the professorate and others who were recipients of highly competitive merit or research scholarships including the Morris K. and Stewart L. Udall, Harry S. Truman and NSF-Research Experience.

Dr. Hattey has provided leadership to assessment of university general education, implementation of university data analytics and curriculum development at university, college and department levels. He has worked to increase student retention, degree completion and enhance leadership skills by developing bridges between academic, residential life and admissions initiatives.

Nationally and internationally, Dr. Hattey has provided leadership to educational initiatives of the American Society of Agronomy, North American Teachers and College of Agriculture and Soil Science Society of America. He has also supported capacity building efforts with higher education partners in Brazil, Burundi, Ethiopia, Kenya, and Sierra Leone.

He led a multi-disciplinary research team in animal waste management for over 15 years producing more than 100 publications, over 30 graduate students completing degrees and numerous extension presentations to producers or policy makers.

Dr. Hattey and Susan are parents to four children, grandparents to nine grandchildren who provide them many reasons to travel.

## NACTA EXECUTIVE COMMITTEE

### OFFICERS & REGIONAL DIRECTORS

#### President

Tracy Dougher  
*Montana State University*

#### President-elect

Mark Russell  
*Purdue University*

#### Immediate Past President

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*Penn State University*

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Marilyn Parker  
*Rupert, Idaho*

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Lyle Westrom  
*University of Minnesota-Crookston*

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*Windward Community College*

#### Southern Regional Director

Nick Fuhrman  
*University of Georgia*



# NACTA EXECUTIVE COMMITTEE

## COMMITTEE CHAIRS & LIASONS

### Journal Committee/ Editorial Board

Rick Parker

### Journal Awards Committee

Crystal Allen

*University of Illinois*

### Membership & Public Relations Committee

Jeannette Moore

*North Carolina State University*

### Educational Issues & Teaching Improvement Committee

Brian Pearson

*University of Florida*

### Teacher Recognition Committee

Wendy Warner

*North Carolina State University*

### International Committee

Chair, Laura White

*New Mexico State University*

Co-Chair, Kelly Newlon

*Ohio State University*

### Experiential Learning Committee

Co-Chair, Dana Ladner

*Kansas Department of Agriculture*

Co-Chair, Tracy Rutherford

*Texas A&M University*

### Nominating/Distinguished Educator/ Foundation Advisory Committee

Tracy Hoover

*Penn State University*

### Murray Brown Leadership Award Committee

Mark Russell

*Purdue University*

### Delta Tau Alpha Liaison

Elizabeth Walker

*Missouri State University*

### NACTA Foundation Chair

Jeff Hattey

*The Ohio State University*

### Judging Conference Liaison

Lyle Westrom

*University of Minnesota-Crookston*

### APLU Liaison

Tracy Hoover

*Penn State University*

### NARRU Liaison

Tracy Hoover

*Penn State University*

### CFAVM & CADAP Liaison

Kent Mullinix

*Kwantlen Polytechnic University*

### CAPICU Liaison

Ed Brokaw

*Abilene Christian University*

### 2018 Program Chair & Host Site Committee

Ann Marie VanDerZanden

*Iowa State University*

# LOCAL ORGANIZING COMMITTEE

Thank you to all who helped organize and host the 2017 conference at Purdue University. Many, in addition to this named group, also serve as volunteers and event hosts during the conference. Those who contributed to organization and planning include:

Dennis Buckmaster, Conference Chair

Penny Kelly, Assistant to Conference Chair

Jay Akridge

Tamara Benjamin

Colleen Brady

Nicole Chapel

Scott Downey

Mary Grace Erickson

Jerry Fankhauser

Marcos Fernandez

Liz Flaherty

John Graveel

Elizabeth Karcher

Tim Kerr

Drew Lugar

Amy Jones

Neil Knobloch

Elise Lofgren

Tyson McFall

Sherre Meyer

Pam Morris

Mark Russell

Dharmendra Saraswat

Mike Schutz

Trevor Stamper

Kara Stewart

Gary Steinhart

### From Ag Communications:

Becky Theller

Russ Merzdorf

Steve Doyle

Danica Kirkpatrick

And also special thanks to **Purdue Conferences and Information Technology @ Purdue** staff including:

Erica Wilson

Robert Elliott

Jenny Meek





## WEDNESDAY, JUNE 28, 2017

Noon – 4:00 pm	NACTA Executive Committee Meeting	STEW 204
4:00 – 7:00 pm	Registration	Outside South Ballroom
6:00 – 6:30 pm	Reception for First Time Attendees and NACTA Executive Committee	PMU, South Ballroom
6:30 – 8:30 pm	Reception for Everyone	PMU, South Ballroom

## THURSDAY, JUNE 29, 2017

7:00 – 8:00 am	Breakfast	PMU, North Ballroom
8:30 – 10:00 am	Opening/Keynote Speaker	STEW, Fowler Hall
10:15 – 12:00 pm	Poster Sessions	STEW 302/306
12:00 – 1:00 pm	Lunch	PMU Restaurants
1:15 – 2:45 pm	Oral Presentations	STEW, 2nd Floor
2:45 – 3:15 pm	Break	STEW 206
3:15 – 4:45 pm	Oral Presentations	STEW, 2nd Floor
5:30 – 6:15 pm	Buses Depart	STEW, West Foyer
6:15 – 8:30 pm	Dinner and Entertainment	Delphi Canal Center
8:30 – 9:30 pm	Buses Return	STEW, West Foyer

## FRIDAY, JUNE 30, 2017

7:00 – 8:30 am	Breakfast and Committee Meetings • Educational Issues & Teaching Improvement • International • Membership & Public Relations	PMU North Ballroom
8:45 – 10:00 am	Oral Presentations	STEW, 2nd Floor
10:00 – 10:30 am	Break	STEW 206
10:30 – 12:00 pm	Oral Presentations	STEW, 2nd Floor
12:15 – 12:30 pm	Box Lunch/Tour Departures	STEW, West Foyer
5:00 – 5:30 pm	Tours Return	STEW, West Foyer
7:00 – 9:00 pm	Grad Student Reception	Nine Irish Brothers

## SATURDAY, JULY 1, 2017

7:00 – 8:30 am	Breakfast and Committee Meetings • Journal • Teacher Recognition • Journal Awards • Experiential Learning	PMU, North Ballroom
9:00 – 10:00 am	Blue Ribbon Presentation	STEW, Fowler Hall
10:15 – 12:00 pm	Poster Sessions	STEW 302/306
12:00 – 1:30 pm	Lunch & Business Meeting	PMU, North Ballroom
1:45 – 2:45 pm	Oral Presentations	STEW, 2nd Floor
3:00 – 5:00 pm	Workshops	STEW, 2nd & 3rd Floors
5:45 – 6:30 pm	Social Time	PMU, Main Lounges
6:30 – 8:30 pm	Banquet/Closing Ceremony	PMU, North Ballroom

## SUNDAY, JULY 2, 2017

9:00 am – Noon	NACTA Executive Committee Meeting	STEW 204
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STONE LIONS FOUNTAIN

# NACTA EXECUTIVE COMMITTEE MEETING

STEW 204 • NOON–4:00 PM

## CONFERENCE REGISTRATION

PMU, OUTSIDE SOUTH BALLROOM • 4:00–7:00 PM

## FIRST-TIMERS RECEPTION

PMU, SOUTH BALLROOM • 6:00–6:30 PM

Reception for First Time Attendees/NACTA Executive Committee – All first time NACTA conference attendees are encouraged to come early to the reception to meet NACTA officers, get an introduction to the organization and the flow of the conference and receive a special welcome gift.

## WELCOME RECEPTION

PMU, SOUTH BALLROOM • 6:30–8:30 PM

Sponsored, in part, by CHS Foundation.



### Remarks at 7:00 including:

Purdue Associate Dean for Academic Programs, Marcos Fernandez  
Indiana State Department of Agriculture, Ted McKinney  
NACTA President, Tracy Dougher  
Conference Chair, Dennis Buckmaster



## BREAKFAST

PMU, NORTH BALLROOM • 7:00–8:00 AM

## OPENING SESSION

STEW, FOWLER HALL • 8:30–10:00 AM

### Welcome and Introduction

Dr. Jay Akridge, *Dean of Purdue Agriculture*

### Keynote Speaker

Ms. Beth Bechdol, *President and CEO of AgriNovus Indiana*  
*Indiana's Agbiosciences - Creating a Movement, Forcing Collisions, and Growing Talent*

## POSTERS SESSIONS

STEW 302/306 • 10:15AM–NOON



The full set of 67 posters presented on Thursday morning should be set up before the opening session and should remain up until noon. The poster room will be available from 7:30-8:30 a.m. Authors may remove posters anytime Noon - 3:30 p.m.

Presenters of odd numbered posters should remain at their posters from 10:15 - 11:10 a.m. Presenters of even numbered posters should remain at their posters from 11:10 a.m. - noon.

Graduate student posters to be judged by conference attendees will be provided a QR code to be displayed with the poster.

There will be coffee, beverages, and refreshments during the poster session. This morning break is sponsored by Explorations by Thor ([www.explorationsbythor.com](http://www.explorationsbythor.com)).

## POSTERS (ODD NUMBERS) 10:15–11:10 AM

No.	Title	Authors & Affiliations
1 155	A Case Study on Reflection During Preservice Teacher Immersion Block	Aaron J. Giorgi, M. Susie Whittington and Caitlyn, A. Black, Ohio State University
3 259	Can Sunn Hemp be Used for Experiential Teaching?	Christina L Martiney and Sharadchandra P. Marahatta, Kauai Community College
5 153	PREP (Professors Reviewing Excellent Practices) – A Course for Faculty	Dennis Buckmaster and Neil Knobloch, Purdue University
7 58	Preparing Future Agricultural Sciences Faculty: An Evaluation of a Cohort Program	Donna Westfall-Rudd and Jeremy Elliott-Engel, Virginia Tech
9 14	Investigating Faculty Knowledge and Perception of SoTL Research	Shelbie Dalton and Gaea Hock, Mississippi State University
11 171	Job Satisfaction & Self-Efficacy of Mid-Career Agricultural Educators	Jay Solomonson and Michael Retallick, Iowa State University
13 140	Using the Swivl Package to Foster Reflection in Pre-Service Teachers	Keith J. Frost and John Rayfield, Texas Tech University
15 170	Teaching Others to Lead: The Mock Nominating Committee Program	Emily Hawkins, K. Jill Rucker and Casandra Cox, University of Arkansas
17 275	Pre-Service Teacher Preparation to Teach Record Keeping Techniques	Frances Nicol, Aaron Giorgi, Caitlyn Black and M. Susie Whittington, Ohio State University
19 70	Preservice Agricultural Education Students' Emoji-Based Reflections	Hailey R. Gates and Catherine W. Shoulders, University of Arkansas
21 229	Teaching as a Graduate Student: A One-Credit Teaching Module Case	Na Zuo and Jerrod Penn, University of Kentucky
23 202	Simulations and Interactive Tools for Agricultural Science Education	Jeanne Gleason, Barbara Chamberlin, Laura White, Kenneth Carroll, Robert Flynn and April Ulery, New Mexico State University
25 74	IHSA Program Characteristics and Practices that Lead to the Most Competitive Successes	Ashley Hansen, Alyssa Oates and Laura White, New Mexico State University
27 157	The Impact of Facebook as a Reflective Measure on Undergraduate Learners Self-Efficacy	Crystal L. Eustice and Michael W. Everett, Michigan State University
29 261	Grocery Shopping for Geophytes	Braden K. Hoch, Stuart A. Sprague and Chad T. Miller, Kansas State University
31 112	Importance and Capability of Teaching Agriculture Food Science as Perceived By Secondary Agricultural Educators	Krysta Kelso, Douglas Morrish and Dexter Wakefield, Texas State University
33 287	Development of a New Precision Agriculture Competition for the NACTA Judging Conference	Kevin J Donnelly and Marshall M. Hay, Kansas State University

Poster Number; Abstract Number

35 240	Teaching and Learning: An Investigation of Student-Centered Approaches to Student Learning	Sergio M. Abit, Bruce L. Dunn, Jon W. Ramsey, Oklahoma State University
37 180	Framework for Successful Academic Advising	Robert Shannon and Tammy Shannon, Penn State University
39 51	Effect of Companion Animal Classroom Presence on Student Belonging	Beth Rausch, Cyndi Kernahan, Megan Schwartz and Alice Stafne, University of Wisconsin - River Falls
41 262	Exploring Undergraduate Researchers' Perceptions of Rapport with Graduate Student Mentors	Christopher M. Estep, Rebecca K. Splan, Thomas S. Janke and Louis A. Harveson, Sul Ross State University
43 295	Views of Soil Science Course Students on Textbook Cost and Format	Colby J. Moorberg and David A. Crouse, Kansas State University
45 175	Integrating Co-Construction Methods into Course Curricula	Jordan DeWitt, Jessica Holt and Abigail Borron, University of Georgia
47 232	Zoom Into Professional Development	Kelly Claflin and Josh Stewart, Oregon State University
49 18	Expanding Energy Education in West Tennessee: The UTM Mobile Energy Classroom	Rachna Tewari, John Cole, Paula Gale and Patty Flowers, University of Tennessee at Martin
51 278	The 1917-2017 History of The Ohio State University Department of Agricultural Communication, Education, and Leadership	C.J. McClain, M.L. Kivel, A.J. Giorgi, C.A. Black and M.S. Whittington, Ohio State University
53 176	Creating Community Agriculture Awareness through an Advocacy Service Learning Project	Courtney P. Biles, Stephanie Jones, Emily C. Payne and Erin G. Brown, Stephen F. Austin State University
55 273	Service-Learning: Getting Digital with Agricultural History	Dale Layfield, Michele Holley and Anna Johnston, Clemson University
57 204	Benefits and Challenges of School and Community Garden Projects in South Carolina	Catherine A. DiBenedetto and Shannon Connolly, Clemson University
59 274	Middle School Students' Food and Garden Experiences and their Engagement and Motivation	Amonte L. Martin, Levon T. Esters, Neil A. Knobloch and Sybil S. Kelley, Purdue University
61 118	News, Democracy and You -- 4-H E-PUBLICATION	Kami Knies and Mark A. Tucker, Purdue University
63 245	Factors Impacting Mindset in Youth Involved in the Indiana 4-H Animal Science Projects	Kelsey Sajdera and Colleen Brady, Purdue University
65 304	An Analysis of Meat Industry Education in Public Middle Schools	Lindsey Skinner, Amanda Reinhardt and Toree L. Bova, University of Findlay, OH
67 303	Creative Experience of Razi University's Students in English Language Teaching and Educational Video Production	Lida Sharafi and Kiumars Zarafshani, Razi University, Kermanshah, Iran



## POSTERS (EVEN NUMBERS) 11:10AM–NOON

No.	Title	Authors & Affiliations
2 164	ABE Graduate Student Recruitment: A Formal Affair?	Abigail Engelberth, Purdue University
4 13	Invigorating Career Interest: Group Reflection of Job Shadowing Experiences	Gaea Hock and Emily Keeton, Mississippi State University
6 2	Longitudinal Trends in Four- and Six-Year Graduation Rates	Donald M. Johnson, University of Arkansas
8 25	Making Connections between PK-12 Engagement and Expanding Access for Recruitment	Alexandria Pettigrew, Yujie Huang and Neil Knobloch, Purdue University
10 26	African American High School Age Male Perceptions of Agricultural Programs in Urban Settings	M. Smith and N. Webster, Penn State University
12 189	Using a Photo Booth as a Means of Exposing Youth to Ag Careers	Jay Solomonson and Sheryl Solomonson, Iowa State University
14 179	Assessing Change in Student Understanding of a Career Field	Cheryl Wachenheim, North Dakota State University
16 163	Change in Student Perspectives after Watching Documentaries in a Contemporary Animal Issues Course	P.M. Urso, M.M. Beverly, S.F. Kelley, M.J. Anderson, K.J. Stutts and F.J. Aniol, Sam Houston State University
18 79	Creating and Implementing a Peer Mentoring Program in a College of Agriculture	Isabel Whitehead and Leslie D. Edgar, University of Arkansas
20 145	Post-Secondary Student's Self-Assessment of College Level Readiness	Thomas Kingery and Loren Gross, Western Kentucky University
22 87	Engaging Agriculture Students Through Living Learning Communities	Will Bird, Todd Winters and Joey Mehlhorn, University of Tennessee
24 208	Enhancing the Agriculture, Community, and Natural Resources Program through Experiential Learning	Pauline M. McFall, Otto M. Hansell, Ionatana Fasavalu and Eirenei Tesimale, American Samoa Community College
26 108	Building a Model Experiential-based Agricultural Food Safety Program	Hannah H. Scherer, Arogeanae Brown, Daniel Steger, Jamie Edwards, Rachelle Rasco, C. Dwayne Huff and Randall Webb, Virginia Tech
28 249	Career Decision Self-Efficacy Among College of Agricultural and Life Sciences Students	Travis L. Hoyle, Kattlyn J. Wolf, Kasee L. Smith and John C. Foltz, University of Idaho
30 212	Assessment of Academic Achievement of Students in a Pre-Veterinary Cohort	M.J. Anderson, K.J. Stutts, M.M. Beverly and S.F. Kelley, Sam Houston State University
32 49	Recruiting Pre-Vet students into the Department of Poultry Science through an Avian Surgery Course	Andrew P. Benson and Mark Compton, University of Georgia
34 307	The Most Distinguished Equine Programs as Ranked by their Peers	Brooke Howell and Jeremy Falk, University of Idaho

36 97	Stressful Success: CDE Preparation Viewed Through Physiological Stress	Amanda Bowling and Erica Thieman, University of Missouri
38 131	To Be the Best You Have to Beat the Best. Do You Also Have to Beat the Biggest?	Dwayne Pavelock, Shyam S. Nair, Thomas Lynn and Jacob Scott, Sam Houston State University
40 59	The Impact of Visual Reflections on Student Stress and Teacher Immediacy	Isabel Whitehead and Catherine W. Shoulders, University of Arkansas
42 41	Theory Critique as a Methodology to Increase Critical Thinking Skills	Jennifer Strong, Texas A&M University
44 20	A National Collaborative for Food, Energy, and Water Education	Cory Forbes, Dan Foster, Kelly Millenbah, Hannah Scherer and Hui-Hui Wang, University of Nebraska
46 127	A Native-Pollinator Innovative STEM-Integrated Program	Miranda Furrer, Hui-Hui Wang, John Orick and Karen Mitchell, Purdue University
48 85	Workforce Partnerships: Investing in Education and Industry	Dana J. Ladner, Russell Plaschka and Kerry Wefald, Kansas Department of Agriculture
50 158	Evaluating Measurements of Leadership for Peer Mentors and Leaders	Kaitlyn A. Murray, Mariah Stollar, Rachel McClellan, Jeff King and Jeff Hattey, Ohio State University
52 100	Applying Vygotsky's Advice to Promote Leadership Learning	Laura L. Greenhaw and Carley C. Morrison, Mississippi State University
54 130	Using Past Product Marketing Failures to Help Students Reap the Benefits of Cooperative Learning	Lori Costello and Tracy Rutherford, Texas A&M University
56 166	Student Perspective of Environmental Issues after a Course in Contemporary Animal Issues	S.F. Kelley, P.M. Urso, M.M. Beverly, M.J. Anderson, K.J. Stutts and F.J. Aniol, Sam Houston State University
58 188	Correlation Between Attendance and Grade in Introductory and Junior Level Classes	Ranjith Ramanathan, Blake Wilson, Deb Van Overbeke and Dan Stein, Oklahoma State University
60 126	Helping Students Learn Both Course Content AND Best Learning Practices	Shelly J. Schmidt, Debra S. Korte, Nicholas Reitz, P. Gizem Gezer-Templeton and Emily J. Mayhew, University of Illinois at Urbana-Champaign
62 222	Student Research Abroad – Sustainable Agriculture in Cuba	Haley Kennedy, Barret Page, Beth Guertal and Steve Hague, Texas A&M University
64 199	College Students' Self-Perceptions of Communication Skills	Theresa Pesl Murphrey, Holli Leggette, Kalynn Baldock and Shannon Barbeau, Texas A&M University
66 16	Optimal Learning Experiences of Undergraduates in an Organizational Management Course Using the EduFlow Scale	Michael W. Everett and Matt R. Raven, Michigan State University

Poster Number; Abstract Number

## LUNCH

### PMU RESTAURANTS • NOON–1:00 PM

Use the ticket in your name badge, for a meal from the restaurant of your choice in the Union Commons (PMU ground floor). There are many choices shown on the map near the back of the program.

## ORAL PRESENTATIONS

### STEWART CENTER, SECOND FLOOR • 1:15–4:45 PM

There are five concurrent sessions – you may move from one session to the other, but please quietly exit/enter to respect presenters and other attendees.

### TEAMS/GROUPS STEW 214AB

Time	No.	Title	Authors & Affiliations
1:15-1:30	146	A Collaborative Workshop for a Food and Nutritional Security Course	Neil A. Knobloch, Mingla Charoenmuang, Debra Fowler and Bhimanagouda S. Patil, Purdue University
1:30-1:45	60	Attitudes and Effectiveness as Measures of Student Satisfaction with Team-Based Learning	Danhong Chen, Foy, D. Mills, Jr., Shyam S. Nair and L. A. Wolfskill, Sam Houston State University
1:45-2:00	24	Does Structure Alter Students' Perceptions of Group Projects?	Maria A. Boengen and Justin W. Rickard, Illinois State University
2:00-2:15	282	Innovative Teaching Strategies for the Undergraduate Introductory Course	M. Susie Whittington, Scott Scheer, Emily Buck and Robert Birkenholz, Ohio State University
2:15-2:30	37	Teamwork Can Be Taught: Examining Team Process in Capstone Courses	Dawn Bohn, Kari Keating and Lisa Burgoon, University of Illinois at Urbana-Champaign

THURSDAY  
1:15–2:45 PM



## EXPERIENTIAL STEW 214CD

Time	No.	Title	Authors & Affiliations
1:15-1:30	296	Capturing Experience: Using Experiential Learning to Teach Photography	Lindsay Kennedy, Rachel Jackson, and Cindy Akers, Texas Tech University
1:30-1:45	244	Experiential Learning Effectiveness in the NACTA Soils Contest	Erin L. Bush, Michel D. Ransom and Kim J. Kerschen, Kansas State University
1:45-2:00	86	Experiential Learning in Animal Science	Carrie L. Pickworth and Jeannette A. Moore, North Carolina State University
2:00-2:15	253	Progress in Developing the Annual Judging Conference and Experiential Learning as Priorities for NACTA	Kevin J. Donnelly, Kansas State University
2:15-2:30	19	Service-learning as an Effective Tool in an Animal Breeding Curriculum	Jolena Waddell, Tarleton State University
2:30-2:45	83	Using Extension Educators to Facilitate Experiential Learning	Nathan W. Conner, Jessica Bartak, Kate Engel, Jason Headrick, Travis Horner, Angie Monheim and Carol Ott Schacht, University of Nebraska

THURSDAY  
1:15–2:45 PM

## ONLINE/DIGITAL STEW 218AB

Time	No.	Title	Authors & Affiliations
1:15-1:30	288	Assessing Collections-Based Learning in Online Classes	Andrea Lucky, University of Florida
1:30-1:45	220	Asynchronous Platforms as Innovation for Global Learning in Agriculture (#GLAG17)	Melanie Miller Foster; Daniel Douglas Foster, Penn State University
1:45-2:00	5	Online Learning Communities in Undergraduate Animal Science Courses	Ben Weikert and Cynthia Shelley, SUNY Cobleskill
2:00-2:15	95	Promoting Student Learning via Automated Individualized Feedback	Daniel H. Poole, Carrie L. Pickworth and Henry E. Schaffer, North Carolina State University
2:15-2:30	52	Recommendations of Agriculture Professors in Teaching Online Courses Effectively	K. S. U. Jayaratne, Gary Moore and Sara Brierton, North Carolina State University
2:30-2:45	75	Using Digital Storytelling to Assess Outcomes in a Study Abroad Course	Emma C. Allen, Elise A. Lofgren and Colleen M. Brady, Purdue University

## TECHNOLOGY STEW 218CD

Time	No.	Title	Authors & Affiliations
1:15-1:30	113	Cell Phone-Based Response Systems: Impacts on Student Achievement	Sihui Ma, Dan Steger, Peter Doolittle and Amanda Stewart, Virginia Tech
1:30-1:45	271	Maximizing Interactivity through Adobe Connect Breakout Rooms	Dale Layfield, Kailee Morris and Brittany Peacock, Clemson University
1:45-2:00	1	Pencasting in University Agriculture Courses	Donald M. Johnson, University of Arkansas
2:00-2:15	152	Photovoice as a Pedagogical Tool to Examine Student Understanding	Abigail Borron, Hilda Kurtz, Jerry Shannon and Jessica Holt, University of Georgia
2:15-2:30	114	Plickers! Rotate, Raise and Scan a Card	Robin G. Coombs, Douglas Morrish, Dexter Wakefield and Elizabeth Benavides, Texas State University
2:30-2:45	246	Wait... I Can Use My Cell Phone in Class? Use of Innovative Technology to Engage Students	Alicia L. Hayden and K. Jill Rucker, University of Arkansas

## INTERNATIONAL STEW 202

Time	No.	Title	Authors & Affiliations
1:15-1:30	230	Education Abroad: An Approach to Addressing Educational Differences through a Participatory Study Abroad Program	Eric D. Rubenstein and Nicholas E. Fuhrman, University of Georgia
1:30-1:45	178	Experimental Learning Exercise on the Streets of Chinese Cities	Cheryl Wachenheim, North Dakota State University
1:45-2:00	7	Service-Learning Abroad: A Successful Approach to Rebuilding a Historic Irish Garden	Ann Marie VanDerZanden and Lisa Orgler, Iowa State University
2:00-2:15	198	Students Act as Tour Guides for a Study Abroad Class	Kathi Jogan and Leslie Edgar, University of Arkansas
2:15-2:30	276	Transformative Learning: A US Internship and Service Abroad in Laos	Colleen Kelly, Purdue University
2:30-2:45	21	Utilizing Tour Stops as Community Partners in an International Service Learning Course	Erica Irlbeck, Texas Tech University

## BREAK

### STEW 206 • 2:45–3:15 PM

Drinks and refreshments can be found in STEW 206

## ASSESSMENTS & OUTCOMES STEW 214AB

Time	No.	Title	Authors & Affiliations
3:15-3:30	6	An Analysis of Senior Student Attributes in a College of Agriculture	Andrew C. Thoron, R. Kirby Barrick and R. Elaine Turner, University of Florida
3:30-3:45	186	Identifying Critical Plant Science Skills: An Industry Survey Approach	Brantlee Spakes Richter, Maya Hayslett, Anissa Poleatewich and Kathryn A. Stofer, University of Florida
3:45-4:00	9	Innovative Education in Agroecology for Five Competency Outcomes	Charles A. Francis, Geir Lieblein, Tor Arvid Breland and Anna Marie Nicolaysen, University of Nebraska
4:00-4:15	65	Using a University Agriscience Teaching Methods Class to Test a Science Comprehension Model	Peter Skelton, Tom Dormody, Madeleine Haggard, Ethan Johnson, Alicyn Monita, Morgan Pinnell, Tell Runyan, Sydnie Stuart and Margaret Lewis, New Mexico State University
4:15-4:30	133	Using Fink's Taxonomy of Significant Learning to Determine the Learning that Occurred in an Agricultural Study Away Experience	Lori Costello and Tracy Rutherford, Texas A&M University

## LEARNING STYLES STEW 214CD

Time	No.	Title	Authors & Affiliations
3:15-3:30	193	Current Event Video Assignments in an Undergraduate Genetics Course	Megan M. Rolf and Jennifer Minick Bormann, Kansas State University
3:30-3:45	191	Competency-Based Learning: An Investigation by a Committee at a Land Grant University	C. Relihan, D. Mulvaney, E. Kierce, K. Noll, K. Boyd, S. Bowers, M. Marshall, T. Carter, T. Cook, J. Lawrence and E. Coleman, Auburn University
3:45-4:00	227	Concept Maps to Address Misconceptions in Introductory Science Courses	Kathryn S. Orvis and Cecilia Espinoza Morales, Purdue University
4:00-4:15	137	Conceptual Frameworks for Student Learning of Complex Earth Systems	Hannah H. Scherer, Lauren Holder and Bruce Herbert, Virginia Tech
4:15-4:30	12	All Together Now: Using Group Tests to INcrease Student Learning	Gaea Hock, Emily Keeton, Christian Baldwin and Courtney Meyers, Mississippi State University
4:30-4:45	174	The Way Eye See It	Ashton Lierle, Shelly Sitton, Greg Clare and Dwayne Cartmell, Oklahoma State University



## FACULTY PREPARATION STEW 218AB

Time	No.	Title	Authors & Affiliations
3:15-3:30	93	Challenge Accepted: Illustrating Leadership Application in Infographics	Laura L. Greenhaw, Carley C. Morrison, Alayna Naro and Emily Keeton, Mississippi State University
3:30-3:45	139	Honors Students' Needs: Developing a Process for Faculty Change to Enhance Student Success	Leslie D. Edgar, Isabel Whitehead and K. Jody Davis, University of Arkansas
3:45-4:00	242	Cooperative Team Learning to Motivate AET Instructor Professional Development	Matt Spindler, SUNY Oswego
4:00-4:15	149	Effectiveness of a Discussion-Based Course for Future Faculty	M.A. Wattiaux and P. Crump, University of Wisconsin-Madison
4:15-4:30	107	Perspectives of Teaching from a Land-Grant Universities' College of Agriculture and Life Sciences	Donna Westfall-Rudd and Jeremy Elliott-Engel, Virginia Tech
4:30-4:45	123	Self-Directed Learning Readiness: Teaching and Learning in Agriculture Education	Laura L. Rice and John C. Ewing, Penn State University

## OUTREACH STEW 218CD

Time	No.	Title	Authors & Affiliations
3:15-3:30	77	A Needs Assessment for Idaho Beef Programming	Anthony Roubal and Jeremy Falk, University of Idaho
3:30-3:45	104	Exhibition Experiences and Adult Interactions in Youth Livestock Projects	Abby Johnson, Colleen Brady, Levon Esters and Neil Knobloch, Purdue University
3:45-4:00	47	Evaluating Adult Learner Experiences at a State Fair Extension Exhibit	Jamie Loizzo, Nathan Conner, Karen Cannon, Elizabeth Janning and Jeffrey Rollins, University of Nebraska and Purdue University
4:00-4:15	235	Livestock Evaluation Confidence and Training Interests of Youth Contestants	Sarah Carter, Shelly Peper Sitton, Blake Bloomberg and D. Dwayne Cartmell II, Oklahoma State University
4:15-4:30	200	Meet the Grand Challenges: Undergraduates Embrace Land Grant Mission	Suzanne Stluka, Rachel K. Landmark, Timothy J. Nichols and Rebecca C. Bott-Knutson, South Dakota State University

## CRITICAL THINKING STEW 202

Time	No.	Title	Authors & Affiliations
3:15-3:30	255	Agricultural Statistics and its Role in Next-Generation Research	Joleen Beltrami, University of the Incarnate Word
3:30-3:45	46	Measuring Preparedness to Advocate for Agriculture: A Pre-Test/Post-Test	Garrett Steede and Erica Irlbeck, Texas Tech University
3:45-4:00	190	Current Events Articles Enhance Student Learning in Undergraduate Genetics	Jennifer Minick Bormann and Megan M. Rolf, Kansas State University
4:00-4:15	68	ISSUES 360: Students Learn How to Engage the Public on Controversial Topics	Beth Forbes, Mark Tucker, Linda Pfeiffer, Mary Helen Halsema, Marcos Fernandez, Marianne Bracke, Janet Ayres and Abigail Borron, Purdue University
4:15-4:30	98	Undergraduates' Understanding of Agricultural Impacts on Wildlife: A Case for Wildlife Conservation Education	Ryan L. Sharp and Adam A. Ahlers, Kansas State University
4:30-4:45	90	What Students Think About Thinking: Perceptions of Critical Thinking	Carley C. Morrison and Laura L. Greenhaw, Mississippi State University

THURSDAY  
3:15-4:45 PM

THURSDAY  
3:15-4:45 PM



UNFINISHED "P"



## BUS DEPARTURE

STEW, WEST FOYER • 5:30–6:15 PM

Buses depart for off-campus dinner & entertainment at Wabash & Erie Canal Conference Center - travel time is approximately 40 minutes. Departure from the west end foyer of STEW. Buses will depart as they fill, with the last one departing at 6:15.

## DINNER & ENTERTAINMENT

WABASH & ERIE CANAL • 6:15–8:30 PM

Thursday evenings' informal off-campus event will be held at the family-friendly Wabash & Erie Canal Conference & Interpretive Center in Delphi, Indiana. Located just 20 miles northeast of Purdue University, you will go back in time to an era celebrating the early manmade waterways and 1850's way of life. Highlights of the evening include Shoup's BBQ (a local Indiana legend), a narrated 35-minute float on The Delphi (19th century replica canal boat), walking trail around the 2.5 mile restored canal (perfect for an after-dinner stroll), the Woodstove Flapjack Band, the Wabash & Erie Canal Museum and pioneer village to roam around. Plenty of activities to experience for any age, or sit, chat, and catch up with one another. For more information, please feel free to visit their website at, [www.wabashanderiecanal.org](http://www.wabashanderiecanal.org).

## BUS DEPARTURE

WABASH & ERIE CANAL • 8:30–9:30 PM

Buses depart to return to Purdue University - travel time is approximately 40 minutes. Buses will depart as they fill with the last one departing at 9:30 pm



"THE DELPHI" CANAL BOAT



## BREAKFAST AND COMMITTEE MEETINGS

PMU, NORTH BALLROOM • 7:00–8:30 AM

### Educational Issues and Teaching Improvement Committee

*Committee Chair, Brian Pearson, University of Florida*

The Educational Issues and Teaching Improvement Committee (a) solicits and responds to member needs regarding programs and activities for instructional improvement; (b) identifies, develops, sponsors, and conducts specific teaching and learning related activities such as blue ribbon presentations, round-tables, symposia, and workshops at the annual conferences; and (c) provides recommendations and assistance to the editor regarding the publishing of materials.

### International Committee

*Committee Chairs, Laura White, New Mexico State University and Kelly Newlon, Ohio State University*

The International Committee: (a) disseminates items of interest to NACTA members concerning international agriculture; (b) encourages publication of articles on international agriculture in the NACTA Journal; and (c) serves as liaison between NACTA and other organizations involved in international agriculture.

### Membership and Public Relations Committee

*Committee Chair, Jeannette Moore, North Carolina State University*

The Membership and Public Relations Committee: (a) provides recommendations to the executive committee regarding membership policies and procedures; (b) conducts membership recruitment activities; and (c) conducts public relation activities.

# ORAL PRESENTATIONS

STEWART CENTER, SECOND FLOOR • 8:45AM–NOON

There are six concurrent sessions – you may move from one session to the other, but please quietly exit/enter to respect presenters and other attendees.

## LEARNING STYLES STEW 214AB

Time	No.	Title	Authors & Affiliations
8:45-9:00	250	Flipping Together: A Collaborative Approach to a Flipped Course	Kasee L. Smith and Aaron J. Johnson, University of Idaho
9:00-9:15	143	When Should PowerPoint Presentations Be Made Available to Students?	Gary Moore, North Carolina State University
9:15-9:30	62	Learning Style and Classroom Community Preference by Delivery Mode	Gregory McKee, University of Nebraska
9:30-9:45	73	Using Round Table Discussions to Engage and Inform Students	Robert L. Williams and Lauren Joie, Texas A&M-Commerce
9:45-10:00	22	Active Learning in a Lecture-Based Animal Science Course	Caitlin Foley, University of Georgia

## FACULTY PREPARATION STEW 214CD

Time	No.	Title	Authors & Affiliations
8:45-9:00	291	Characterizing Instructor Priorities for Organic Ag Education	Makenzie Pellissier and Randa Jabbour, University of Wyoming
9:00-9:15	247	Examining Faculty Background and Self-Efficacy as Factors in Teaching	Kasee L. Smith and Bishal Thapa, University of Idaho
9:15-9:30	218	If At First You Don't Succeed: A Reflection and Re-Teaching Model	Josh Stewart, Thomas M. Henderson and Misty D. Lambert, Oregon State University
9:30-9:45	183	Improving Teaching Through Peer Review: INnovation of Process	Anne Spafford and Wendy Warner, North Carolina State University
9:45-10:00	97	INnovation in Evaluating the Academic Efforts of Faculty Members	Anne Spafford and Wendy Warner, North Carolina State University

# ASSESSMENTS & OUTCOMES STEW 218AB

Time	No.	Title	Authors & Affiliations
8:45-9:00	214	Combining Reflection and Peer Review to Enhance Soft-Skills	Anne-Marie Prochaska, Tobin Redwine, Gary Wingenbach, Tracy Rutherford, Emily Evans, Sherice Perkins, Emily Bost and Wash Jones, Texas A&M University
9:00-9:15	142	Comparing Student Course Progress For Alternative Advisement Policies	C. Robert Stark Jr., Paul B. Francis and Rocky Lindsey, University of Arkansas at Monticello
9:15-9:30	266	Is Classroom Polling an Effective Method for Facilitating Student Interaction?	Garrison J. Gundy, Marshall M. Hay and Kevin J. Donnelly, Kansas State University
9:30-9:45	196	Student Perception of Learning and the Link to Student Learning Outcomes of a Course	Brian D. Whitaker, The University of Findlay
9:45-10:00	293	Students' Assessment of the Practicum Period Rrequired for Graduation at National Agricultural University Peru	Carlos Gomez, Gustavo Gutierrez, Maria Wurzinger and Jan Elen, National Agrarian University

## CURRICULUM STEW 218CD

Time	No.	Title	Authors & Affiliations
8:45-9:00	161	Integrating Certification into an undergraduate Environmental Science Curriculum	Robert Shannon, Tammy Shannon, Eric Chase and Steven Bloser, Penn State University
9:00-9:15	185	Importance of Agricultural Renewable Energy Curriculum Topics	Michael McDermott and Caston Masters, Eastern Kentucky University
9:15-9:30	187	Building a 21st Century Outcome-Based Insect Biology Curriculum	Peter Dunn, Mathew Ginze, Jeffery Holland, Jonathan Neal, Christian Oseto, Douglas Richmond and Trevor Stamper, Purdue University
9:30-9:45	263	Plant Madness in Plant Identification	Chad T. Miller, Kansas State University
9:45-10:00	56	Science Literacy through Animal and Food Sciences	Nathan W. Conner, Bryan Reiling, Matt Kreifels and Christopher T. Stripling, University of Nebraska-Lincoln

FRIDAY  
8:45–10:00 AM

FRIDAY  
8:45–10:00 AM

## ASSORTED STEW 202

Time	No.	Title	Authors & Affiliations
8:45-9:00	94	Animals Help Reduce Communication Anxiety: Which is "Best" – Fur, Feathers, or Scales?	Nick Fuhrman and Lisa Starling, University of Georgia
9:00-9:15	267	Knowledge Generation Builds Confidence in an Advanced Production Class	Martin J. Zuidhof and Frank E. Robinson, University of Alberta
9:15-9:30	4	The Blue and Orange Initiative - Connecting Penn State University and the University of Florida	Dennis R. Decoteau, Halee L. Wasson, Tracy S. Hoover, David G. Clark, Celina Gomez, Virginia M. Frazier and R. Elaine Turner, Penn State University
9:30-9:45	210	The Use of a Therapy Dog to Relieve Test-Taking Anxiety	M.J. Anderson, K. Franks, M.M. Beverly, S.F. Kelley and K.J. Stutts., Sam Houston State University
9:45-10:00	219	Recruiting Techniques and Influences on College Choice	Brittney LeeAnn Rochell, D. Dwayne Cartmell II, Shelly Peper Sitton and Shannon Ferrell, Oklahoma State University

## EXPERIENTIAL & RESEARCH STEW 279

Time	No.	Title	Authors & Affiliations
8:45-9:00	195	Improving Student Success While Attending a Professional Conference	Elizabeth A. Flaherty, Casey C. Day, Laura E. D'Acunto, Vanessa Quinn and Patrick A. Zollner, Purdue University
9:00-9:15	33	Transdisciplinary Undergraduate Water Education: Pedagogical Reflections	Cory T. Forbes, Nick Brozovic, Trenton Franz, Diane Lally and Destini Pettitt, University of Nebraska
9:15-9:30	290	Peer Mentoring Majors: Elements of Effective Mentor Training	Victoria David, University of Georgia
9:30-9:45	197	Perceived Learning Gains of Natural Resource Students in an Undergraduate Research Program	Christopher M. Estep, Rebecca K. Splan, Thomas S. Jank and Louis A. Harveson, Sul Ross State University
9:45-10:00	136	Undergraduate Research in Agriculture: In-novating Student Engagement	Rich Crow, Thomas H. Paulsen and Chris Benson, Morningside College

## BREAK

### STEW 206 • 10:00–10:30 AM

Drinks and refreshments can be found in STEW 206

## EXPERIENTIAL STEW 214AB

Time	No.	Title	Authors & Affiliations
10:30-10:45	135	Agricultural Externship: Innovating Experiential Curriculum Design	Thomas H. Paulsen, Chris Benson and Rich Crow, Morningside College
10:45-11:00	300	Directed Readings Course: Student Engagement, Discussion and Mentoring	J. Marcos Fernandez and Marianne Stowell Bracke, Purdue University
11:00-11:15	138	Exploring the Intrinsic Motivation of Students in a Sustainable Agriculture Tour Class	Elizabeth Walker, Sarah Lancaster, Gary Webb, Kyle Lovercamp, Rodney Barr and Andy Larson, Missouri State University
11:15-11:30	281	Impacts of Teaching Garden Hands-on Activities on Student Learning	Xin Zhao, Bala Rathinasabapathi, Marilyn E. Swisher and Zhifeng Gao, University of Florida
11:30-11:45	248	Innovation - An Experiential Capstone Precision Crop Management Course	Lee E. Schweitzer, Purdue University
11:45-Noon	67	Using Public Pedagogy to Develop Innovative Application Courses	Jennifer Strong and K. Jill Rucker, Texas A&M University

## TECHNOLOGY STEW 214CD

Time	No.	Title	Authors & Affiliations
10:30-10:45	268	Exploring Educational Technology: Students Helping Faculty	OP McCubbins, Tennessee Technological University
10:45-11:00	224	Exploring Immersive Video in Advancing Inquiry-Based Learning in Domestic and Global Settings	Melanie Miller Foster, Daniel Douglas Foster, Ryan Wetzel, Daniel Getz, Kristen McAuley and Nick Smerker, Penn State University
11:00-11:15	182	Facebook Live: Advancing the Social Media Toolkit	Justin Walker, Tobin Redwine and Tracy Rutherford, Texas A&M University
11:15-11:30	283	Planting the Seeds of a "Pedia" Project	Robert Lane, Sheyenne Krysher and Rachel Baxter, Sam Houston State University
11:30-11:45	110	Teaching on a Swirl: Integrating Technology to Foster Engaged Learning	Greg D. Pillar, Queens University of Charlotte
11:45-Noon	54	Using Multimedia Case Studies to Teach Agricultural and Natural Resources Issues	Becky Raulerson, Ricky Telg, Jessica Harsh, Courtney Meyers and Alexa Lamm, University of Florida

FRIDAY  
8:45–10:00 AM

FRIDAY  
10:30AM–NOON





## CRITICAL THINKING STEW 218AB

Time	No.	Title	Authors & Affiliations
10:30-10:45	81	Critical Thinking Styles of International Faculty	Catherine A. DiBenedetto, R. Kirby Barrick and Mohamed Hassan, Clemson University
10:45-11:00	15	Developing Entrepreneurship Skills in Agribusiness Graduates	Joey Mehlhorn, Rachna Tewari, Ross Pruitt and Scott Parrott, University of Tennessee at Martin
11:00-11:15	167	Ethical Viewpoints of Students in a Contemporary Animal Issues Course after Viewing Documentaries	M.M. Beverly, P.M. Urso, S.F. Kelley, M.J. Anderson, K.J. Stutt and F.J. Aniol, Sam Houston State University
11:15-11:30	132	Using Agricultural Stereotypes in the Media to Prepare Students for Careers in Agriculture	Lori Costello and Tracy Rutherford, Texas A&M University
11:30-11:45	36	Engaging Undergraduates in Soil Sustainability Decision-Making	Hannah H. Scherer, Sarah Fortner and Martha Murphy, Virginia Tech
11:45-Noon	39	What's Behind the Barn Doors? - An Inquiry Project for Animal Science	F. E. Robinson, M. J. Zuidhof and C. Varnhagen, University of Alberta

FRIDAY  
10:30AM - NOON

## MULTICULTURAL STEW 218CD

Time	No.	Title	Authors & Affiliations
10:30-10:45	144	Advising in a Multicultural Setting	Shreya Mitra and James C. Anderson, Virginia Tech
10:45-11:00	172	Campus Climate: Including Agricultural Identity as a Social Identity	Lori L. Moore, Dustin K. Grabsch, Jackie Bruce and Carrie Stephens, Texas A&M University
11:00-11:15	205	Influence of Reflection and Immersion on Students' Views of Cultural Diversity	Emily Evans, Tobin Redwine, Gary Wingenbach, Tracy Rutherford, Emily Bost, Anne-Marie Prochaska, Sherice Perkins and Wash Jones, Texas A&M University
11:15-11:30	64	Evaluating Micro Expressions in Agriculture Students Discussing Diversity	Tiffany A. Drape and Stacy K. Vincent, Virginia Tech
11:30-11:45	89	Diversity in Higher Education - Awareness to Action	Jennifer E. Rivera, Madeline Shellgrin, Jessica Mestre, Pauline Tobias, Shaira Abdul-Razak, Hogeun Park, Alyssa Steptor, Greg Steele, Erin Pevan, Monica List, Dustin Petty and Karla Loebick, Michigan State University
11:45-Noon	265	Understanding Cultural Heritage Prior to High-Impact Educational Experiences	Sherice Perkins, Tobin Redwine, Gary Wingenbach, Tracy Rutherford, Emily Evans, Emily Bost, Anne-Marie Prochaska and Wash Jones, Texas A&M University

FRIDAY  
10:30AM - NOON



BOILERMAKER SPECIAL



## INTERNATIONAL STEW 202

Time	No.	Title	Authors & Affiliations
10:30-10:45	40	Developing a Short-Term International Study Abroad Field Trip	Jennifer Strong and Kim Dooley, Texas A&M University
10:45-11:00	181	Lessons Learned from a Year of Teaching in China	Cheryl Wachenheim, North Dakota State University
11:00-11:15	48	Perceptions of Culture Impacted by a Short Study Abroad Program	Taylor Ruth, Gail Kauwell and Joy Rumble, University of Florida
11:15-11:30	129	Students' Preferred Location of Travel and Perceptions of Barriers and Benefits: A Focus on Enhancing Student Success in International Programs	Leslie D. Edgar, Don W. Edgar and Isabel Whitehead, University of Arkansas
11:30-11:45	125	Understanding Students' Perceptions of Writing and Reflection: Impact of International Experiences	Shannon Barbeau, Holli Leggette, Theresa Murphrey and Katy Lane, Texas A&M University
11:45-Noon	92	Utilizing Educational Strategies to Identify and Promote Mindset Shifts in Students Abroad in Haiti	Lauren A. Brizgys, Alacyn L.Cox, Linda Pfeiffer and Mark A. Russell, Purdue University

## CAREER SERVICES STEW 279

Time	No.	Title	Authors & Affiliations
10:30-10:45	44	A Career Fair Tailored for Students in the Agricultural Sciences - Is It Working?	Shyam S. Nair, L. A. Wolfskill, Danhong Chen, Foy D. Mills, Jr. and Kelsey L. Powers, Sam Houston State University
10:45-11:00	50	Employer Expectations of a Career Fair Designed for Students in the Agricultural Sciences	Art Wolfskill, Shyam Nair, Foy Mills Jr. and Kelsey Powers, Sam Houston State University
11:00-11:15	147	Got Skills? Perspectives of Agribusiness Graduate Employability	Dorothy Marie Farias, California State Polytechnic University, Pomona
11:15-11:30	297	Internships or Study Abroad: Influences of Career Decision Making	Delanie Crist, Troy G. Tarpley, Cindy Akers, Scott Burris, CassiDe Street and David Doerfert, Texas Tech University
11:30-11:45	122	Linking Acquired Skills of College Graduates with Employer Demands	Michelle L. Kibler and Michael J. Barrowclough, Illinois State University
11:45-Noon	236	Why Students are Choosing (or Not) Careers in Food and Agriculture	Kelly F. Millenbah, W. Dwight Armstrong, Mark Balschweid, Olga Bolden-Tiller and Riva Denny, Michigan State University

FRIDAY  
10:30AM - NOON

## BOX LUNCH / TOUR DEPARTURES

Several tours are full; confirmation of tour was sent via email and confirmed at registration. Only approved changes can be accommodated. If you did "swap" tours with a friend, be sure to inform conference registration of the change. **Special Note:** You cannot "swap" into the Indy Innovations tour. It requires a government-issued ID with you on the day of the tour and all participants must have registered in advance.

Show your tour ticket to pick up your box lunch in the west foyer of STEW and proceed to the bus. All tours will return by 5:30 pm at Stewart Center.

### 12:15 PM DEPARTURES



#### Tour 2: Indy Innovations – DOW and Traders Point Creamery

Coordinator: Ms. Amy Jones



#### Tour 5: Fair Oaks Farms – Education & Entertainment

Coordinator: Dr. Mike Schutz

### 12:30 PM DEPARTURES



#### Tour 1: Purdue Field Research and Teaching Facilities and Ag Alumni Seed

Coordinator: Mr. Jerry Fankhauser



#### Tour 3: Wildlife and Environmental Outreach Facilities

Coordinator: Dr. Liz Flaherty



#### Tour 4: Wings, Woods, & Bugs

Coordinator: Dr. Trevor Stamper & Dr. Tom Turpin



#### Tour 6: Local Diversified Farms

Coordinator: Dr. Tamara Benjamin

FRIDAY  
12:15 - 9:00 PM

## GRADUATE STUDENT RECEPTION NINE IRISH BROTHERS • 7:00–9:00 PM



Meet at 6:45 p.m. in the PMU Main Hall (by the campus model) to walk together.

Nine Irish Brothers – a traditional pub – is a 15 minute walk from campus down Chauncey Hill. Appetizers and your first couple of drinks will be provided by NACTA! Appetizers to be provided include Nine Irish's famous goat cheese fritters (deep-fried fritters filled with goat cheese), pots of gold (potato skins topped with cheese and bacon) and chicken wings with bomb and barbecue sauce. Starting at 9:00 p.m., Nine Irish Brothers will have free, live music with Highland Reign, a Scots-American folk rock band.

Thank you to CHS Foundation for sponsoring this event.

# BREAKFAST AND COMMITTEE MEETINGS

PMU, NORTH BALLROOM • 7:00–8:30 AM

## Journal Committee

*Committee Chair, Rick Parker, College of Southern Idaho*

The Journal Committee (a) provides recommendations and assistance to the editor regarding Journal policies and content; and (b) reviews manuscripts submitted to the Journal for publication and abstracts for the annual meetings. The editor shall chair the committee. Members of the Journal Committee serve as the Editorial Board for the NACTA Journal.

## Teacher Recognition Committee

*Committee Chair, Wendy Warner, North Carolina State University*

The Teacher Recognition Committee: (a) establishes and publishes policies and guidelines for the teaching awards; (b) receives nomination materials; (c) determines the award recipients; and (d) posts the names of award recipients to the NACTA Teaching Awards website.

## Journal Award Committee

*Committee Chair, Crystal Allen, University of Illinois*

The Journal Award Committee: (a) establishes policies and guidelines for the journal awards; (b) evaluates articles in each volume of the Journal; and (c) determines the award recipients.

## Undergraduate Experiential Learning Committee

*Committee Chair, Dana Ladner, Kansas Department of Agriculture*

*Committee Co-Chair: Tracy Rutherford, Texas A&M University*

The Undergraduate Experiential Learning Committee: (a) collaborates with the judging conference liaison to intentionally extend the purposes of NACTA through the Judging Conference; (b) explores creative opportunities for NACTA to enhance undergraduate experiential learning; (c) develops stronger career preparation and skill development opportunities through enhanced relationships with agricultural and environmental business leaders and companies; and (d) works with the Educational Issues and Teaching Improvement Committee to recommend programs for the annual conference focused on the implementation and assessment of experiential learning activities.

SATURDAY  
7:00–8:30 AM



PURDUE MEMORIAL UNION NORTH BALLROOM

# BLUE RIBBON PRESENTATION

STEW, FOWLER HALL • 9:00–10:00 AM

*"Are You My Teacher?"*

## Speaker Introduction

*Dr. Brian Pearson, Assistant Professor, University of Florida*

## Blue Ribbon Speaker

*Dr. Jeff Hattey, Assistant Dean, The Ohio State University*

# POSTERS SESSIONS

STEW 302/306 • 10:15AM–NOON

The full set of 66 posters presented on Saturday morning should be set up before the Blue Ribbon presentation and should remain up until noon. The poster room will be available from 7:30–9:00 a.m. Authors may remove posters anytime noon – 3:30 p.m.

Presenters of odd numbered posters should remain at their posters from 10:15 – 11:10 a.m. Presenters of even numbered posters should remain at their posters from 11:10 a.m. – noon.

Graduate student posters to be judged by conference attendees will be provided a QR code to be displayed with the poster.

There will be coffee, beverages, and refreshments during the poster session.

SATURDAY  
9:00–10:00 AM

## POSTERS (ODD NUMBERS) 10:15–11:10 AM

No.	Title	Authors & Affiliations
1 78	Exploring Extension Experientially in an Undergraduate Swine Course	Emma C. Allen, Brian T. Richert and Allan P. Schinckel, Purdue University
3 216	Augmented Reality as a Learning Tool for Horse Judging Education	Paige Arehart, Kathryn Orvis, Sean Brophy and Colleen Brady, Purdue University
5 169	Student Perspectives Regarding Human Health after a Contemporary Animal Issues Course	M.J. Anderson, P.M. Urso, M., M.M. Beverly, S.F. Kelley, K.J. Stutts and F.J. Aniol, Sam Houston State University
7 31	Student Perception of Trans-Institutional Cooperative Learning in an Animal Science Course	Elizabeth Karcher, Ron Lemenager, Dan Buskirk and Kara Stewart, Purdue University
9 119	Using the ARCS Model to Develop an Online Animal Science Course	Kristyna Oates and Colleen Brady, Purdue University
11 237	Lab or No Lab: The Use of Experiential Learning in an Introductory Animal Science Course	Eric D. Rubenstein and T. Dean Pringle, University of Georgia
13 57	The Implementation of Pre-Laboratory Handouts and Quizzes in an Animal Reproductive Physiology Laboratory Course: A Case Study	Emily G. Taylor and Kara R. Stewart, Purdue University
15 148	Can a Lab Exercise Encourage Participation in Undergraduate Research?	Craig Darroch, University of Tennessee at Martin
17 76	Career Skills Gained from a Short-Term Study Abroad	Ashley Hansen, Alyssa Oates and Laura White, New Mexico State University
19 30	Impact of Indigenous and Background Agricultural Knowledge on College Students	Babanifemi Adio, North Carolina State University
21 207	Enhancing Graduate Student Diversity through a Mentoring Based Recruitment and Retention Program Model	Quintana M. Clark, Levon T. Esters and Neil A. Knobloch, Purdue University
23 88	Impact of Student Demographics on Confidence of Critical Thinking Proficiency	Cassandra Jones, Kansas State University
25 11	Sowing the Seeds for a Multicultural 21st Century Skills Workforce	Ron Heimler, Lisa Kessler and Peter Kilduff, Huntley College of Agriculture
27 241	Minority Experiences in Agricultural STEM Fields: A Framework and Review of Literature	Chantel Simpson, Matt Spindler, SUNY Oswego
29 165	Gender Differences on Environmental Issues after a Contemporary Animal Issues Course	M.M. Beverly, P.M. Urso, S.F. Kelley, M.J. Anderson, K.J. Stutts and F.J. Aniol, Sam Houston State University
31 206	Student Reflections of Gender Leadership	K. Jill Rucker and Donna L. Graham, University of Arkansas

No.	Title	Authors & Affiliations
33 243	Using Focused Atmosphere Seminars for Career and Leadership Readiness of Women in Agriculture	Jill Thompson, Julie Weathers and Samantha Lowman, Southeast Missouri State University
35 209	Legal Frameworks and Women Farmers' Land Ownership by the Sukuma of Tanzania	Asha H. Shayo, Rick Rudd, Amon Mattee, Donna Westfall-Rudd and Thomas Archibald, Virginia Tech
39 105	PhotoVoice for Empowering Students and Evaluating Hands-On Learning	Alicia L. H. Holloway, Caree Jackson Cotwright and David A. Knauff, University of Georgia
41 45	An International View of Agricultural Communications	Danielle Neaves, Erica Irlbeck, David Lawver and Marilda Oviedo, Texas Tech University
43 3	Agriculture and Non-Agriculture Transfer Students: A Longitudinal Comparison	Donald M. Johnson, Leslie D. Edgar, Catherine W. Shoulders, University of Arkansas
45 101	A Cross Cultural Immersion Experience in Agriculture Teacher Prep	Douglas D. LaVergne and Robert L. Williams, Texas A&M University-Commerce
47 34	Agribusiness Student Learning through Conference Participation	Jose A. Lopez, Texas A&M University-Commerce
49 154	State FFA Leaders' Perceptions of Homeschoolers in Agricultural Education	Matthew Kararo and Neil Knobloch, Purdue University
51 35	Tools for Preparing Veterinary Technicians for College Success	Clint Ary, Danny Walker, Renee Stubblefield, Jason Roberts and Joey Mehlhorn, University of Tennessee at Martin
53 294	Experiential Learning via Team-based Undergraduate Agronomy Research	Colby J. Moorberg, Kansas State University
55 160	Relationship between Engaging in Socio-Cultural Discussions and Major	Kaitlyn A. Murray, Jeff King and Jeff Hattey, Ohio State University
57 256	Online Delivery May Amplify Effect of Course Structure on Grade Distribution	Rebekah Oliver, North Dakota State University
59 286	Teaching with Technology: An Innovation for the Millennials	Lana Petrie and Daniel Stein, Oklahoma State University
61 99	Use of Extracurricular Activities to Augment Agribusiness Education	Ross Pruitt, Rachna Tewari, Scott Parrott, and Joey Mehlhorn, University of Tennessee
63 17	Student Perceptions: How Effective is Team Work?	Rachna Tewari, Joey Mehlhorn, Ross Pruitt, Scott Parrott and Jessica Crews Garcia, University of Tennessee Martin
65 121	Incorporating Applied Research with Student Organization Funding	Randall Violett, Southern Utah University

Poster Number; Abstract Number

## POSTERS (EVEN NUMBERS) 11:10AM–NOON

No.	Title	Authors & Affiliations
2 66	The Value of Study Abroad: The Growth of Global Citizens	Crystal Allen, Jan Brooks and Sarai Coba, University of Illinois
4 53	The Impact of Short-Term U.S. - Japan Student Exchange Experiences	Mason K. Chock, Sharadchandra P. Marahatta, Masanori Koike, Michael Girod, Eman I. Gabour, Robert A. Petersen and Randy K. Umetsu, University of Hawaii, Kauai Community College
6 134	Innovative Learning, Research, and Service through a Creative Inquiry Summer Experience	B. Bruce Greene and Amber Dunnaway, Tennessee Tech University
8 223	Study Abroad in Mexico	Steve Hague, Barret Page and Haley Kennedy, Texas A&M University
10 284	Creating a Transformational Learning Experience in Laos	Colleen Kelly, Purdue University
12 69	Study Abroad and Student Exchange Program in Agriculture and Its Impact	Sharad P. Marahatta, Masanori Koike, Randy K. Umetsu, Michael B. Girod, Mason K. Chock, Robert A. Petersen and Eman I. Gabour, Kauai Community College, University of Hawaii
14 260	Study Abroad: Student Perceived Benefits from Short Term Study Abroad	Jeffery J. Reed and Anna Ball, University of Missouri
16 84	Critical Thinking Skills Expressed During a One-Month Study Abroad Experience	Nicole Stedman, Muthusami Kumaran and Sky Georges, University of Florida
18 225	Tale of Two Courses: Embedding Research in an Undergraduate Curriculum	Jessica D. Braswell and Greg D. Pillar, Queens University of Charlotte
20 231	Impact of Photo Narratives on Reflection and Learning Retention	Emily Bost, Gary Wingenbach, Tobin Redwine, Tracy Rutherford, Sherice Perkins, Anne-Marie Prochaska, Emily Evans and Wash Jones, Texas A&M University
22 116	Insight on Reducing Writing Apprehension through Planned Interventions	Adam Cletzer, Laura Hasselquist and Elissa Hendren, University of Missouri
24 173	Using Reflexive Journaling in Skills-Based Classes	Jessica Holt and Abigail Borron, University of Georgia
26 233	What I think I learned: Reflections on Knowledge Gains and Outcomes	Holli Leggette, Tobin Redwine and Shannon Barbeau, Texas A&M University
28 272	Teachers' Perceptions toward Sustainable Agriculture in an Ohio Science High School	Sharmin Faraj, Aaron Giorgi, Caitlyn Black, Jill Pfister, Scott Scheer and M. Susie Whittington, Ohio State University
30 234	Using Natural Science Models to Improve Social Science Learning	Thaiiesha Beard, Xavia Gantz, Roger Brown, Brian Hains and Kristina Ricketts, University of Kentucky

32 55	Science in the Agriculture Classroom	Nathan W. Conner, Christopher T. Stripling, Sarah Greer, Jamie Loizzo and Bre Lewis, University of Nebraska-Lincoln
34 292	Redesigning Greenhouse Crop Production Curricula for the 21st Century	Christopher J. Currey, Iowa State University
36 299	Monolith Cakes make Soil Science Easier to Digest	Sherry Fulk-Bringman, Purdue University
38 109	Food Defense: A New Consideration for Inclusion in Food Safety Curriculum	Emefa A Monu and Robert A. Norton, Auburn University
40 252	Integrating Spatial Educational Experiences into Soil Science Education	Darrell G. Schulze, John G. Graveel and The Isee Network, Purdue University
42 264	Bridging the Gap between College Algebra and Agronomic Math	Haleigh N. Summers and Erik J. Christian, Iowa State University
44 106	Student Readiness and Progression in a Plant Science Course	Lurline Marsh and Fawzy Hashem, University of Maryland Eastern Shore
46 71	Engagement Levels Contribute to Student Success in an Introductory Genetics Class	Rebekah Oliver, North Dakota State University
48 111	Exposing Problems Teaching Students Morphological Species Identification	Gregory Nigoghosian, Lauren Weidner, Ludmila D. Nunes and Trevor Stamper, Purdue University
50 215	Facilitating Student Success in Gateway Courses using Animations and Interactive Tools	April Ulery, Laura White, Kenneth Carroll, Jeanne Gleason and Barbara Chamberlin, New Mexico State University
52 221	Interactive Activities in a Plant Breeding Course	Barret Page, Haley Kennedy and Steve Hague, Texas A&M University
54 117	Should Discussion Forums be Eliminated from Online Courses?	Shalyse Iseminger and Pamala Morris, Purdue University
56 38	Implementing Curriculum and Classes for One Degree with Two Locations and Two Specializations	Lisa K. Lundy, Nicole Stedman, Andrew Thoron, Deb Barry, Kati Lawson and Brian Myers, University of Florida
58 194	From Poaching to Oil Spills: A Hybrid Approach to Teaching Forensics	Michael L. Mashtare, Maria Soledad Sepulveda and Suzanne M. Ahlersmeyer, Purdue University
60 29	Developing Distance Learning Programs in Veterinary Technology Management	J.E. Mehlhorn, Jason Roberts, Clint Ary, Danny Walker and Renee Stubblefield, University of Tennessee at Martin
62 115	Does Testing Type Matter? Instant versus Traditional Feedback Methods	Lori L. Moore and Dustin K. Grabsch, Texas A&M University
64 277	Students of Color and Cooperative Learning Teams	Matt Spindler and Chantel Simpson, SUNY Oswego
66 162	A Content Analysis of Climate Change Education in Colleges of Agriculture in the Big Ten Schools	Kaila Thorn, Rama Radhakrishna and Dan Tobin, Penn State University



## LUNCH & BUSINESS MEETING

PMU, NORTH BALLROOM • NOON–1:30 PM

NACTA, President Tracy Dougher  
NACTA Foundation, President Jeff Hattey

## ORAL PRESENTATIONS

STEWART CENTER, SECOND FLOOR • 1:45–2:45 PM

There are five concurrent sessions – you may move from one session to the other, but please quietly exit/enter to respect presenters and other attendees.

### RETENTION STEW 214AB

Time	No.	Title	Authors & Affiliations
1:45-2:00	103	Agriculture Teachers of Texas: Who Will Stay and Who Will Go?	Bridget McIntosh, Douglas Morrish and Dexter Wakefield, Texas State University
2:00-2:15	217	Success in a Big Place: Enrolling and Retaining Our Rural Students	Joy Morgan and Stephany Dunston, North Carolina State University
2:15-2:30	120	Team-Based Learning, Friendship, Satisfaction, and Student Retention	Foy D. Mills, Jr., Shyam S. Nair, Danhong Chen and L. A. Wolfskill, Sam Houston State University
2:30-2:45	23	The [Mascot] AgCademy: A Model for Alternatives to Dual Enrollment	Catherine W. Shoulders and Lona J. Robertson, University of Arkansas

### PRE-COLLEGE PROGRAMS STEW 214CD

Time	No.	Title	Authors & Affiliations
1:45-2:00	124	Early College Certificate Program at Kailua and Castle High Schools	Ingelia White, Hongwei Li and Teena Michael, Windward Community College
2:00-2:15	141	How Agricultural Safety and Health Content is being Taught and Assessed in Middle and High Schools	Andrew Mann and Dee Jepsen, Ohio State University
2:15-2:30	72	Impact of a Summer STEM Program in Enhancing Understanding of Agricultural and Related Sciences	Jesse Thompson and Prasanta Kalita, University of Illinois

## OUTREACH STEW 278

Time	No.	Title	Authors & Affiliations
1:45-2:00	228	Challenges of Communicating the Land Grant Mission to Hispanic Populations in the Mid-Atlantic: A Review of Approach	Ilse A. Huerta Arredondo, Melanie Miller-Foster and Maria Gorgo-Gourovitch, Penn State University
2:00-2:15	128	Changing Undergraduate Aspirations for Research and Extension	Deborah Murray and Silvia Giraud, University of Georgia
2:15-2:30	168	Perceptions and Willingness of [State] Farmers to Adapt to Climate Change	Kaila Thorn, Rama Radhakrishna, Dan Tobin, Allison Chatrchyan, Joana Chan, David Lane and Shorna Allred, Penn State University
2:30-2:45	159	The Nature of Food Waste: A Holistic Extension Program	Rebecca Busse and Rod N. Williams, Purdue University

### CURRICULUM STEW 279

Time	No.	Title	Authors & Affiliations
1:45-2:00	201	Integrating Biomimicry in an Undergraduate Leadership Course	Summer Odom, Allison Dunn, David Walther, Robert Strong, Julianna Rangel-Posada and Tracy Rutherford, Texas A&M University
2:00-2:15	82	Multi-Disciplinary Approach to Project Development and Design	Rebecca C. Bott-Knutson, Erin L. Cortus and Todd P. Trooien, South Dakota State University
2:15-2:30	289	Teaching Personal Finance to Undergraduate Students	Martie Gillen, University of Florida
2:30-2:45	269	What to Teach in Horse Behavior and Handling Courses	Morgan Gadd, Kris Hiney, Steven Cooper and J. Shane Robinson, Oklahoma State University

### ASSESSMENTS & OUTCOMES STEW 202

Time	No.	Title	Authors & Affiliations
1:45-2:00	28	Classroom Assessment Techniques for Student Comprehension Evaluation	Kelly Lange and Rachna Tewari, Texas Tech University
2:00-2:15	43	Does Homework Help in Assessment Preparation at the College Level?	Will Bird and Sandy Mehlhorn, University of Tennessee at Martin
2:15-2:30	254	Evaluating Confidence and Concern in an Introductory Level EAAT Course	Kathi Jogan, Kelly Vowell Johnson and Jason Apple, University of Arkansas
2:30-2:45	102	Examining the Impact of College-Level Agricultural Mechanical Courses	Douglas D. LaVergne, Texas A&M University-Commerce

# WORKSHOPS

STEWART CENTER • 3:00–5:00 PM

## STEW 310

### **Advancing Your Scholarly Teaching into the Scholarship of Teaching and Learning**

*Coordinator: Ann Marie VanDerZanden, Iowa State University*

Scholarly teaching is grounded in the subject matter being taught and in the implementation of effective pedagogies to focus on student learning. The scholarship of teaching and learning (SoTL), on the other hand, is research focused on teaching and learning. The 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.

## STEW 314 (FOLLOWED BY A TOUR OF WILMETH ACTIVE LEARNING CENTER)

### **Active Learning Facilities and Their Use**

*Coordinator: John G. Graveel, Purdue University*

In this workshop, we will hear from Purdue faculty who have experienced the Instruction Matters: Purdue Academic Course Transformation program. We will also hear from the senior engineer and designer of technology in the new Active Learning Center and from BSA Life Structures (the architectural firm responsible for design of the building and active learning classrooms) who used an analysis of the impact of changes in pedagogy and study to influence facility design. Part of the workshop will be a walking tour of the 59,000 square foot Wilmeth Active Learning Center which is to open in August, 2017.

## STEW 218ABC

### **Can you see me learn? Using the photo narrative process to evaluate student experiential learning**

*Coordinator: Gary Wingenbach, Texas A&M*

Photo Narrative is a purposeful, experiential education method, whereby learners construct “self-identity through photographs and narrative text...to develop a visual autoethnography” (Ownby, 2013, para.1). Learners take ownership of newly learned material through multisensory stimuli and comparative analyses. Workshop attendees will broaden their knowledge of the Photo Narrative process through: 1) Discussion of best practices for evaluation of imagery-based artifacts in experiential education; 2) Participation in photo valuation exercises; 3) Comparison of Photo Narrative exercise outcomes; and, 4) Sharing ideas to expand Photo Narrative’s application in the agricultural sciences. Workshop attendees will be encouraged to collect specific digital photographs on their mobile devices before the NACTA Conference for use during the workshop. In addition, attendees will need a small notepad and pen/pencil in the workshop.

## STEW 214CD

### **Ag Employment Opportunities Report – Methods and Update**

*Coordinator: Dennis Buckmaster, Purdue University*

The USDA releases an Employment Opportunities for College Graduates (in Food, Agriculture, Renewable Natural Resources, and the Environment) every 5 years. At the time of this conference we will be half way between reports. In this workshop, participants will gain some background from Dr. Alan Goecker regarding how this report was generated (a bit about assumptions, data sources, etc.). Part 2 of the workshop will involve panel discussion regarding the state of the agricultural economy and context changes and how these may be shifting agricultural careers and placement from earlier projections. Panel members include Kirby Barrick of University of Florida, Drew Ratterman of DOW Agrosiences, and Susan Bush of Purdue University.

## STEW 278

### **Food Truths from Farm to Table: Classroom discussion exercises and divisive debate in courses of agriculture**

*Coordinator: Brian Pearson, University of Florida*

Classroom discussions that incorporate divisive agricultural debates can further enhance student engagement, cognitive gains, and evaluative skills; however, faculty may elect to avoid controversial topics due to fears of uncertainty of discussion management. The goal of this workshop is to discuss how topics presented by Michele Payn, local food system expert and author, can be integrated into attainment of course learning objectives through classroom discussion exercises. Michele will present ideas, concepts, and topics found in her soon to be released book, Food Truths from Farm to Table. A workshop discussion following Michele’s presentation will foster an exchange of teaching ideas, concepts, and classroom discussion experiences highlighting the utilization of divisive topics.

## STEW 320

### **Going Google**

*Coordinator: O.P. McCubbins, Tennessee Tech University*

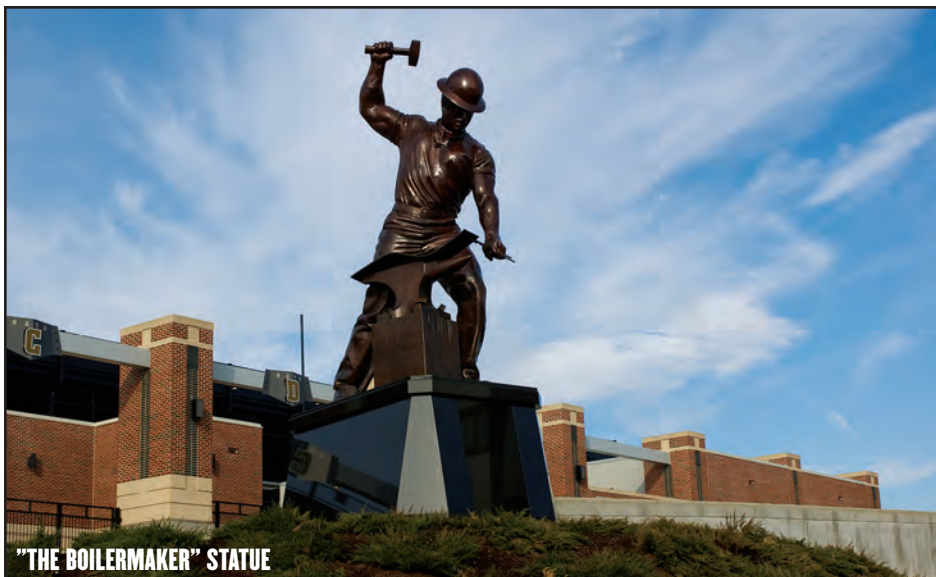
This workshop aims to empower instructors to become confident in their ability to harness the power of Google in the learning environment. After a brief overview of the available tools and how to utilize them, participants will work collaboratively to transform lessons and assignments into powerful learning tools for their students. At the conclusion of the Going Google workshop, participants will be able to: 1) utilize Google tools for the delivery of educational content; 2) plan classroom activities that utilize Google tools to promote critical thinking, teamwork, problem solving, and creativity; 3) collaborate with students via Google tools. Participants should bring a laptop computer, a lesson they have taught or will teach, and an assignment that accompanies it.

## SOCIAL TIME

PMU, MAIN LOUNGES • 5:45–6:30 PM

## BANQUET / CLOSING CEREMONY

PMU, NORTH BALLROOM • 6:30–8:30 PM



"THE BOILERMAKER" STATUE

SATURDAY / SUNDAY

## SUNDAY

### NACTA EXECUTIVE COMMITTEE MEETING

STEW 204 • 9:00–NOON

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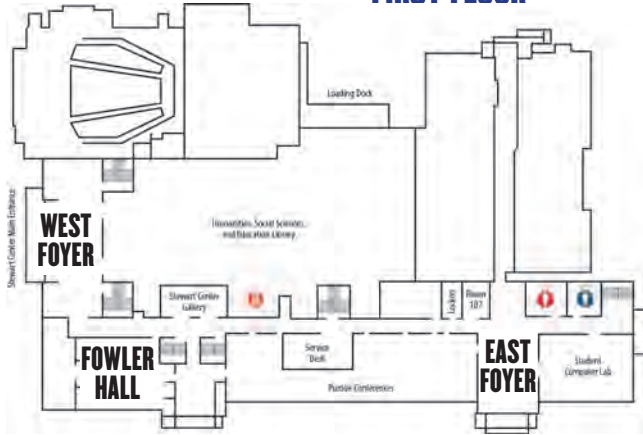
IOWA STATE 2018







# FIRST FLOOR



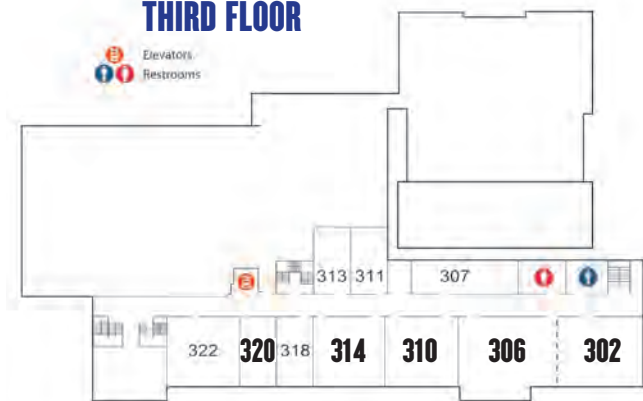
MEMORIAL MALL AND BUS LOADING



# SECOND FLOOR



# THIRD FLOOR



STEWART CENTER MAP

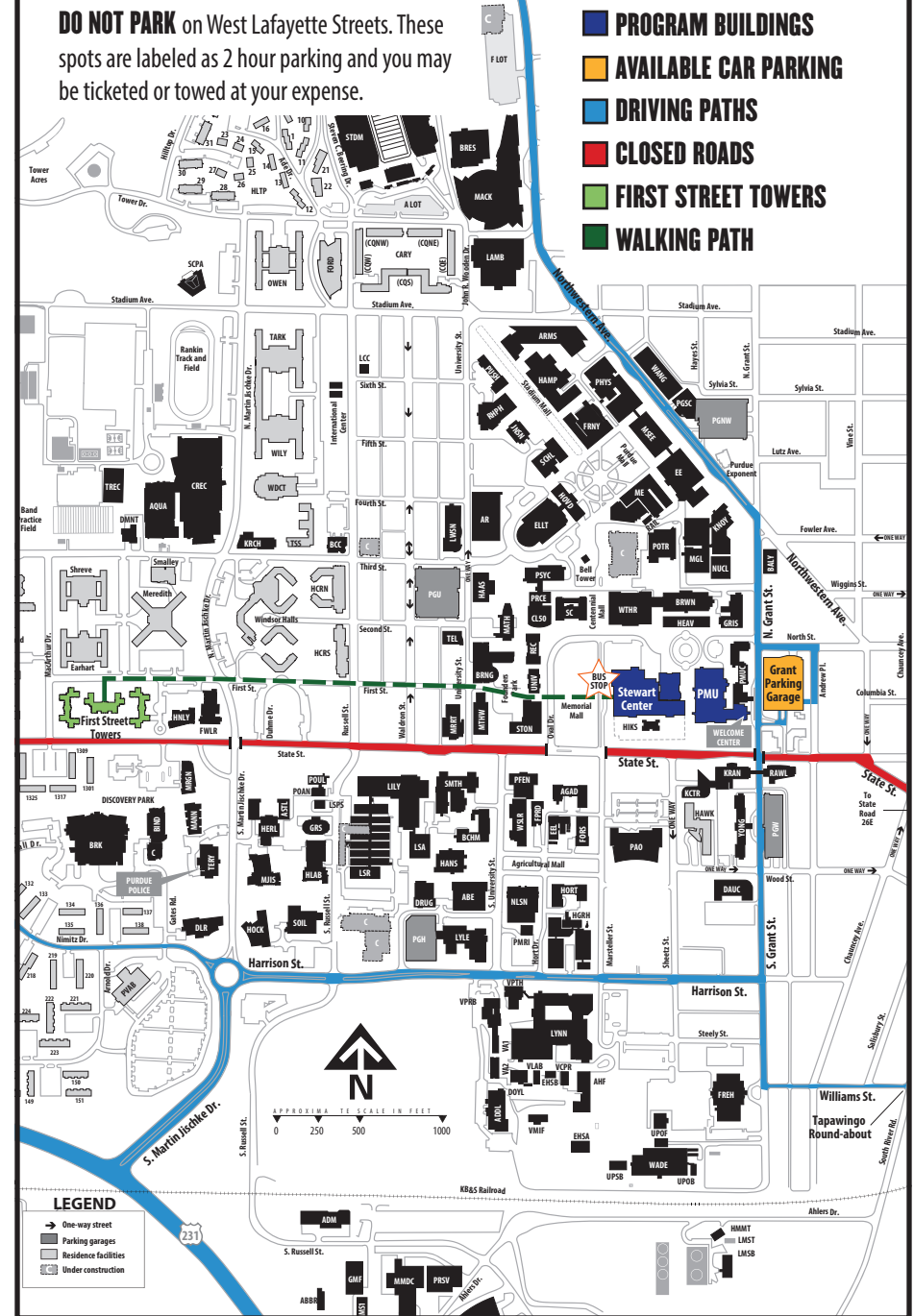
# PURDUE UNIVERSITY

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**PARKING IS PERMITTED** at locations displaying signs for residence hall permits, **NOT** AB parking spaces.

**DO NOT PARK** on West Lafayette Streets. These spots are labeled as 2 hour parking and you may be ticketed or towed at your expense.

- PROGRAM BUILDINGS
- AVAILABLE CAR PARKING
- ▬ DRIVING PATHS
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- FIRST STREET TOWERS
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**LEGEND**

- ▬ One-way street
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- Under construction

# SCHEDULE AT-A-GLANCE

## WEDNESDAY, JUNE 28, 2017

Noon – 4:00 pm	NACTA Executive Committee Meeting	STEW 204
4:00 – 7:00 pm	Registration	Outside South Ballroom
6:00 – 6:30 pm	Reception for First Time Attendees and NACTA Executive Committee	PMU, South Ballroom
6:30 – 8:30 pm	Reception for Everyone	PMU, South Ballroom

## THURSDAY, JUNE 29, 2017

7:00 – 8:00 am	Breakfast	PMU, North Ballroom
8:30 – 10:00 am	Opening/Keynote Speaker	STEW, Fowler Hall
10:15 – 12:00 pm	Poster Sessions	STEW 302/306
12:00 – 1:00 pm	Lunch	PMU Restaurants
1:15 – 2:45 pm	Oral Presentations	STEW, 2nd Floor
2:45 – 3:15 pm	Break	STEW 206
3:15 – 4:45 pm	Oral Presentations	STEW, 2nd Floor
5:30 – 9:30 pm	Off campus dinner & entertainment	Delphi Canal Center

## FRIDAY, JUNE 30, 2017

7:00 – 8:30 am	Breakfast and Committee Meetings <ul style="list-style-type: none"><li>• Educational Issues &amp; Teaching Improvement</li><li>• International</li><li>• Membership &amp; Public Relations</li></ul>	PMU, North Ballroom
8:45 – 10:00 am	Oral Presentations	STEW, 2nd Floor
10:00 – 10:30 am	Break	STEW 206
10:30 – 12:00 pm	Oral Presentations	STEW, 2nd Floor
12:15 – 12:30 pm	Box Lunch/Tour Departures	STEW, West Foyer
5:00 – 5:30 pm	Tours Return	STEW, West Foyer
7:00 – 9:00 pm	Grad Student Reception	Nine Irish Brothers

## SATURDAY, JULY 1, 2017

7:00 – 8:30 am	Breakfast and Committee Meetings <ul style="list-style-type: none"><li>• Journal</li><li>• Journal Awards</li><li>• Teacher Recognition</li><li>• Experiential Learning</li></ul>	PMU, North Ballroom
9:00 – 10:00 am	Blue Ribbon Presentation	STEW, Fowler Hall
10:15 – 12:00 pm	Poster Sessions	STEW 302/306
12:00 – 1:30 pm	Lunch & Business Meeting	PMU North Ballroom
1:45 – 2:45 pm	Oral Presentations	STEW, 2nd Floor
3:00 – 5:00 pm	Workshops	STEW, 2nd & 3rd Floors
5:45 – 6:30 pm	Social Time	PMU, Main Lounges
6:30 – 8:30 pm	Banquet/Closing Ceremony	PMU, North Ballroom