GROW

YOUR ADVENTURE

NACTA CONFERENCE, IOWA STATE UNIVERSITY
JUNE 12-15, 2018
THANK YOU TO OUR SPONSORS

**Gold Sponsor**
DowDupont
CHS Foundation
ISU College of Agriculture and Life Sciences

**Silver Sponsor**
USDA Teaching Section

**Bronze Sponsor**
Farm Credit Services of America
ISU Department of Agricultural Education and Studies
ISU Department of Animal Science
ISU Department of Horticulture
Land O’Lakes, Inc.

**Poster Sponsor**
ISU Department of Agronomy
Monsanto, Co.

**Banquet Sponsor**
ISU Department of Economics

**Break Sponsor**
ISU Department of Agricultural & Biosystems Engineering
ISU Department of Genetics, Development & Cell Biology
# Table of Contents

## SPEAKERS
- Welcome......1
- Keynote......2
- Blue Ribbon......2

## COMMITTEES
- NACTA Officers & Directors......3
- Committee Chairs & Liaisons......4
- Local Organizing......5

## SCHEDULE AT-A-GLANCE
**June 12-16, 2018**

### THURSDAY
- Detailed Schedule......15-16
- Oral Presentations......17-19
- Workshops......20-21
- Tours......22

### WEDNESDAY
- Detailed Schedule......8
- Oral Presentations......9-14
- ISU Alumni Reception......14
- Dinner at Reiman Gardens......14

### FRIDAY
- Detailed Schedule......23-24
- Oral Presentations......25-27

### SATURDAY
- Detailed Schedule

### POSTERS
- Poster Layout Map......28
- Poster Session 1 (Wed.)......29-32
- Poster Session 2 (Fri.)......33-36
- NACTA 2019......36

### MAPS
- Scheman and Hotels......37
- Scheman and Dublin Bay......37
- Scheman Interior......38
- Scheman Parking......39
- Reiman Gardens......40
- Gateway Hotel......41
Welcome to the 64th annual NACTA conference! We are pleased to welcome you to Ames, Iowa, for this important gathering. Thank you for your scholarly contributions to advancing our critically important education programs and to the professional development of your fellow agricultural educators.

“Grow Your Adventure” is your conference theme and it’s our promise to students enrolling in the College of Agriculture and Life Sciences at Iowa State University. Iowa State’s agricultural education and research programs are world-renowned, ranked in the top 4 percent among 301 agricultural and forestry programs worldwide by QS World University Rankings. And our agricultural engineering programs lately have been enjoying the view from atop U.S. News & World Report’s rankings.

Students are our top priority. Our faculty work every day to spark interest both in the classroom and through meaningful experiences outside the classroom. The result: We graduate leaders and innovators — civic-minded, globally oriented, scientifically grounded and well-prepared to tackle society’s biggest challenges.

That’s what we do at Iowa State and what you do at your home institution. All of us enable students to explore exciting, make-a-difference careers. We broaden students’ perspectives by introducing them to new experiences, ideas, people and cultures.

The commitment shows. In the past 12 years, our college undergraduate enrollment has increased 88 percent, including 5 straight years of record enrollments. The College of Agriculture and Life Sciences leads the rest of Iowa State’s campus in many retention and graduation rate categories. Our new placement rate for recent graduates exceeds 99 percent — an historical first. About 65 percent of our new grads begin their careers in Iowa — a perennial pride point for us and another reason we point to the state’s investment in higher education truly as an investment in the state’s future.

My thanks goes to our hard-working conference organizing committee chaired by Ann Marie VanDerZanden. Last fall we were pleased to celebrate with Dr. VanDerZanden on her USDA National Excellence in Teaching Award. Her honor was our ninth recipient of these national and regional teaching honors in the past 11 years.

Welcome to Iowa State and enjoy the conference! Enjoy your adventure!

Joe Colletti, Interim Dean
Iowa State University College of Agriculture & Life Sciences

Joe Colletti
Interim Endowed Dean
College of Agriculture and Life Sciences
Iowa State University
KEYNOTE SPEAKER

Scott Siepker, Iowa Nice Guy

Scott Siepker is an actor, writer, producer, and filmmaker. Scott started off as a stage actor at Iowa State University, where he received his bachelor degree in psychology. Scott has gone on to co-found the film company, Iowa Filmmakers, which has been responsible for the Iowa Nice series of hit videos that included a two season run on ESPNU’s College Football Daily. Though Scott is best known for his work as the Iowa Nice Guy, he is a versatile, veteran actor of stage and screen, drama and comedy.

BLUE RIBBON SPEAKER

Rick Parker

You Still Teach?

Dr. R. O. (Rick) Parker earned his undergraduate degree from Brigham Young University in Utah, a Ph.D. in Reproductive Physiology from Iowa State University, and completed post-doctoral work at the University of Alberta, Edmonton, and the University of Wyoming, Laramie. He is currently the Journal Editor for NACTA (North American Colleges and Teachers of Agriculture), the president of the National Agricultural Institute, and a part-time instructor for the College of Southern Idaho (CSI). He is the past director for AgrowKnowledge, the National Center for Agriscience and Technology Education, a project funded by the National Science Foundation. As a former division director (1985–2004) at CSI, he worked in agriculture, information technology, drafting, and electronics, and taught computer, agriculture, and writing classes. In 1992, he received an Honorary State FFA Degree from Idaho and then in 2005 he received an Honorary American FFA Degree at the 78th National FFA Convention. From 2005 to 2008 he served as a board member of The National Council for Agricultural Education (The Council). He is the 2008 recipient of the NACTA Distinguished Educator Award, and the 2010 recipient of the NACTA Murray Brown Leadership Award. Dr. Parker has authored several Cengage titles (Plant & Soil Science, Aquaculture Science, Equine Science, Introduction to Plant Science, Introduction to Food Science & Food Systems, and others). Also, he created and edited a series of agricultural textbooks called “Just the Facts.”

He and his wife of 49 years, Marilyn, are a team. Since 1999, their team work has included the Secretary/Treasurer and the Journal Editor for NACTA. They live in Rupert, Idaho. Rick and Marilyn the parents of eight children and grandparents of 27.
President
Mark Russell
Purdue University

President-Elect
Ann Marie VanDerZanden
Iowa State University

Immediate Past President
Tracy Dougher
Montana State University

Secretary/Treasurer
Marilyn Parker

Journal Editor
Rick Parker

Historian
Kevin Donnelly
Kansas State University

Membership Director
Tracy Dougher
Montana State University

Central Regional Director
Tom Paulson
Morningside College

Eastern Regional Director
John Ewing
Pennsylvania State University

Eastern Regional Director-Elect
Daniel Foster
Pennsylvania State University

Western Regional Director
Ingelia White
Windward Community College

Western Regional Director-Elect
Ed Franklin
University of Arizona

Southern Regional Director
Nick Fuhrman
University of Georgia

NACTA Judging Conference Director
Lyle Westrom
University of Minnesota - Crookston

Canadian Regional Director
Frank Robinson
University of Alberta
Journal Committee/Editorial Board
Rick Parker

Journal Awards Committee
Crystal Allen
University of Illinois

Membership & Public Relations Committee
Tracy Dougher
Montana State University

Educational Issues and Teaching Improvement
Brian Pearson
University of Florida

Teacher Recognition Committee
Wendy Warner
North Carolina State University

International Committee and Committee Co-Chair
Chair, Laura White
New Mexico State University
Co-Chair, Kelly Newlon
Ohio State University

Experiential Learning Committee Co-Chairs
Co-Chair, Dana Ladner
Kansas Department of Agriculture
Co-Chair, Tracy Rutherford
Texas A&M University

Nominating/Distinguished Educator/Foundation Advisory Committee
Tracy Dougher
Montana State University

Murray Brown Leadership Award Committee
Ann Marie VanDerZanden
Iowa State University

Delta Tau Alpha Liaison
Elizabeth Walker
Missouri State University

NACTA Foundation Chair
Jeff Hattey
Ohio State University

APLU/CRERR/APS Liaison
Tracy Hoover
Pennsylvania State University

NARRU Liaison
Dale J. Gallenberg
University Wisconsin, River Falls

CAPICU Liaison
Ed Brokaw
Abilene Christian University

2019 Program Chair and Host Site Committee
Rick Parker
College of Southern Idaho - Twin Falls
LOCAL CONFERENCE ORGANIZING COMMITTEE

Ann Marie VanDerZanden
Office of the Senior Vice President & Provost
Years in NACTA: 22 years

Erik Christian
Department of Agronomy
Years in NACTA: 5 years

Christopher Currey
Department of Horticulture
Years in NACTA: 5 years

Cindy Haynes
Department of Horticulture
Years in NACTA: 11 years

Mike Retallick
Department of Agriculture Education & Studies
Years in NACTA: 16 years

Jodi Sterle
Department of Animal Science
Years in NACTA: 5 years
**SCHEDULE AT A GLANCE**

**Tuesday, June 12, 2018**
- Noon - 4:00pm  NACTA Executive Committee Meeting, Boardroom 080
- Noon - 7:00pm  Registration, Scheman First Floor Lobby
- 6:00 - 6:30pm  Welcome Reception for First Time Attendees, Scheman Outdoor Plaza
- 6:30 - 8:30pm  Welcome Reception for Everyone, Scheman Outdoor Plaza

**Wednesday, June 13, 2018**
- 7:00 - 8:00am  Breakfast, 220-240
- 8:30 - 10:00am Welcome and Keynote Speaker, Benton Auditorium
- 10:15am - 12:00pm Poster Session 1, Second Floor Lobby
- 12:00 - 1:00pm  Lunch, 220-240
- 1:00 - 2:30pm  Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
- 2:30 - 3:00pm  Break, First Floor Lobby
- 3:00 - 4:30pm  Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
- 5:30 - 6:15pm  Iowa State University Alumni Reception, Reiman Gardens
- 6:15 - 9:15pm  Dinner at Reiman Gardens

**Thursday, June 14, 2018**
- 7:00 - 8:30am  Breakfast, 220-240
- 7:30 - 8:30am  Committee Meetings, 250-252, 260-262, 275
- 8:45- 10:00am Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
- 10:00 - 10:15am Midmorning Break, First Floor Lobby
- 10:15am - 12:00pm Workshops, 150-154, 175-179, 250-252, 260-262, 275, 299
- 11:45am - 12:30pm Boxed Lunch, First Floor Lobby
- 12:15 - 12:30pm Tour Departure, Lot F, Between CY Stephens and Fisher
- 5:30pm  Dinner on Your Own
- 6:00 - 8:00pm Graduate Student Reception, Dublin Bay Irish Pub & Grill

**Friday, June 15, 2018**
- 7:00 - 8:30am  Breakfast, 220-240
- 7:30 - 8:30am  Committee Meetings, 175-179, 250-252, 260-262, 275
- 9:00 - 10:00am Blue Ribbon Presentation, Benton Auditorium
- 10:15am - 12:00pm Poster Session 2, Second Floor Lobby
- 12:00 - 1:45pm Lunch & Business Meeting, 220-240
- 2:00 - 4:15pm Oral Presentations, 175-179, 250-252, 260-262, 275
- 5:30 - 6:30pm Social Hour, Gateway Hotel and Conference Center, Prairie Ballroom
- 6:30 - 8:30pm Awards Banquet & Closing Ceremony, Gateway Hotel and Conference Center, Prairie Ballroom

**Saturday, June 16, 2018**
- 9:00am - 12:00pm NACTA Executive Committee Meeting, Boardroom 080
TUESDAY, JUNE 12

ALL TUESDAY SESSIONS TAKE PLACE AT THE SCHEMAN BUILDING

NACTA Executive Committee Meeting
Noon - 4:00pm
Scheman Boardroom 080

Conference Registration
Noon - 7:00pm
Scheman First Floor Lobby

Scavenger Hunt
Iowa State University Campus (Shuttles pick up at Lot F. Refer to the map on page 39)

Welcome Reception for First Time Attendees
6:00 - 6:30pm
Scheman Outdoor Plaza
All first time NACTA conference attendees are welcome to come early to the reception and meet with NACTA officers to learn more about the organization and how the conference works.

Welcome Reception for Everyone
6:30 - 8:30pm
Scheman Outdoor Plaza
The Welcome Reception is the kick-off event for the conference. It is a casual evening to gather with our colleagues, reconnect with old friends, and meet new conference attendees. On behalf of the conference organizing committee, we hope you will join us for an All Iowa themed evening. And of course- there will be corn!

ISU CAMPUS SCAVENGER HUNT: SELFIE STYLE

Explore sites on the ISU Campus and discover fun facts and history about ISU. Complete the scavenger hunt for a chance to win prizes at the conference. More details at the registration desk. Prizes will be awarded at the Awards Banquet on Friday evening. Participants must be present to win.
WEDNESDAY, JUNE 13

ALL WEDNESDAY SESSIONS TAKE PLACE AT THE SCHEMAN BUILDING

Breakfast
7:00 - 8:00am
Scheman 220-240

Welcome to NACTA and Keynote Address
8:30 - 10:00am
Benton Auditorium

Welcome
Joe Colletti, Interim Dean
Iowa State University College of Agriculture & Life Sciences

Keynote Speaker
Scott Siepker, Iowa Nice Guy

Poster Session 1 (pages 29-32)
10:15am - 12:00pm
Scheman Second Floor Lobby

Posters have been assigned a location number. This information can be found on pages 29-32. All posters should be set up by Wednesday 8:30am and remain up until 2pm on Friday. Any posters remaining after 2pm, can be collected at the first floor registration desk. Please be available at your poster on your assigned date/time.

Lunch
12:00 - 1:00pm
Scheman 220-240

Oral Presentations (pages 9-11)
1:00 - 2:30pm
Scheman 150-154, 175-179, 250-252, 260-262, 275

During this time there are five concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.

Break
2:30 - 3:00pm
Scheman First Floor Lobby

Oral Presentations (pages 12-14)
3:00 - 4:30pm
Scheman 150-154, 175-179, 250-252, 260-262, 275
### ORAL PRESENTATIONS (PM)

During this time there are five concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.

### SCHOLARSHIP OF TEACHING AND LEARNING (SoTL)

**SCHEMAN 150-154**

1:00PM - 2:30PM

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm</td>
<td>2018-0019</td>
<td>Impact of Teacher Attire on Students’ Views of Teacher Credibility and Homophily</td>
<td>Catherine W. Shoulders, Lesley Smith, University of Arkansas</td>
</tr>
<tr>
<td>1:30pm</td>
<td>2018-0105</td>
<td>Panel Discussion as an Effective Instructional Strategy Influencing Student Perceptions</td>
<td>Lauren Lewis Cline, Haley Rosson, Penny Pennington Weeks, and William Weeks, Oklahoma State University</td>
</tr>
<tr>
<td>1:45pm</td>
<td>2018-0128</td>
<td>A Longitudinal Study Examining Student Evaluation Scores and a Faculty Development Program</td>
<td>Blake C. Colclasure, Sarah E. LaRose, T. Grady Roberts, Elaine R. Turner, and Allen E Wysocki, University of Florida</td>
</tr>
<tr>
<td>2:00pm</td>
<td>2018-0150</td>
<td>Perceptions of Learning in Food and Agricultural Chemistry</td>
<td>E. Walker and S. Lancaster, Missouri State University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0177</td>
<td>Student Subjective Opinions of Great Teachers - A Q-Methodology Study</td>
<td>Carley Snider, Joenelle Futrell, and Marshall A. Baker, Oklahoma State University</td>
</tr>
</tbody>
</table>

### INNOVATIVE TEACHING

**SCHEMAN 175-179**

1:00PM - 2:30PM

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm</td>
<td>2018-0123</td>
<td>Use of 3D Simulation Models to Enhance Student Learning in a Food Science Class</td>
<td>Ranjith Ramanathan, Navam Hettiarachchly, Deb VanOverbeke, and Dan Stein, Oklahoma State University</td>
</tr>
<tr>
<td>1:15pm</td>
<td>2018-0071</td>
<td>Is the Virtual Grass Greener? Video Game Simulation Use as a Teaching Tool</td>
<td>Kelly Lange, Rachna Tewari, and Joey Mehlhorn, Texas Tech University</td>
</tr>
<tr>
<td>1:30pm</td>
<td>2018-0108</td>
<td>Blending: Utilizing Multiple Live and On-Demand Platforms for Purposeful Professional Development in Global Learning in Agriculture (#GLAG18)</td>
<td>Melanie Miller Foster and Daniel Foster, Penn State University</td>
</tr>
<tr>
<td>1:45pm</td>
<td>2018-0114</td>
<td>How Does the Use of a Smartphone-Based Technology in Teaching Influence Learning Outcomes?</td>
<td>Vikram Koundinya, Feiran Chen, Peter Livingston, Kevin Erb, and Janice Kepka, University of California, Davis</td>
</tr>
<tr>
<td>TIME</td>
<td>ABSTRACT</td>
<td>TITLE</td>
<td>AUTHOR/AFFILIATIONS</td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
<td>-----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2:00pm</td>
<td>2018-0053</td>
<td>Social Media and Faculty Development: Examining How Faculty use Social Media to Share an International Professional Development Experience</td>
<td>Lisa Lundy, Tiffany Rogers, Nicole Stedman, Kim Dooley, Amy Harder, James Lindner, Grady Roberts, Christopher Stripling, and Robert Strong, Jr. University of Florida</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0218</td>
<td>Can We Meet the Needs of the iGeneration?: Exploring Effective Technology Integration Needs of Educators</td>
<td>OP McCubbins, Will Bird, and John Ricketts Tennessee Technological University</td>
</tr>
</tbody>
</table>

**SoTL AND INNOVATIVE TEACHING**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm</td>
<td>2018-0023</td>
<td>Preparing a University Agriscience Teaching Methods Class to Design, Deliver, and Assess a Preservice Climate Science Teaching Activity</td>
<td>Peter Skelton and Tom Dormody New Mexico State University</td>
</tr>
<tr>
<td>1:15pm</td>
<td>2018-0030</td>
<td>Motivations to Teach and Plans to Continue Teaching for High School Agriculture Teachers in [STATE]</td>
<td>Normala Ismail and Greg Miller Iowa State University</td>
</tr>
<tr>
<td>1:30pm</td>
<td>2018-0109</td>
<td>Cultivating Digital Leadership in Pre-Service Teachers: #psuaged18</td>
<td>Tiffany Morey and Daniel Foster Penn State University</td>
</tr>
<tr>
<td>1:45pm</td>
<td>2018-0043</td>
<td>Teachers’ Perceptions of UAVs in School-Based Agricultural Education</td>
<td>Summer E. Beery and Thomas H. Paulsen Morningside College</td>
</tr>
<tr>
<td>2:00pm</td>
<td>2018-0229</td>
<td>An Innovative Agricultural Science Education at a Non-Land-Grant University</td>
<td>Krish Jayachandran, Mahadev Bhat, Kateel Shetty, Amir Khoddamzadeh, and Eric Betancourt Florida International University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0242</td>
<td>I See Myself When I Serve Others; Service Learning to Develop Mechanics Skills In Teachers</td>
<td>Jason McKibben, Ashley Yopp, and Emily Perdue West Virginia University</td>
</tr>
</tbody>
</table>

**COMMUNICATING THE VALUE OF SCIENCE**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm</td>
<td>2018-0005</td>
<td>Preparing Graduate Students in Agriculture and Natural Resources to Communicate about Science and Research</td>
<td>Lisa K. Lundy University of Florida</td>
</tr>
</tbody>
</table>
### ORAL PRESENTATIONS (PM)

**COMMUNICATING THE VALUE OF SCIENCE (CONTINUED)**
**SCHEMAN ROOM 260-262**
**1:00PM - 2:30PM**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:15pm</td>
<td>2018-0010</td>
<td>Increasing Scientific Literacy through Inquiry-Based Professional Development</td>
<td>Nathan W. Conner, Bryan A. Reiling, Matt Kreifels, Christopher T. Stripling University of Nebraska-Lincoln</td>
</tr>
<tr>
<td>1:30pm</td>
<td>2018-0040</td>
<td>Developing and Teaching an Exploring STEM in Agriculture Course</td>
<td>Rick Parker College of Southern Idaho</td>
</tr>
<tr>
<td>1:45pm</td>
<td>2018-0041</td>
<td>Creating Collaborative Partnerships between Industry and Universities to Solve Complex Agricultural Problems</td>
<td>Catherine W. Shoulders, Valerie N. Bayes, Brian E. Myers, Robert Terry, Jr., Debra Spielmaker, and Monica Pastor University of Arkansas</td>
</tr>
<tr>
<td>2:00pm</td>
<td>2018-0061</td>
<td>Growing Future Agriscientists: Investigating the Barriers Limiting Agriscience Research at the Secondary Level</td>
<td>Eric Koehlmoos and Gaea Hock Kansas State University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0062</td>
<td>Developing the Next Generation of Water Advocates</td>
<td>Gaea Hock, Katelyn Bohnenblust, and Zachary Callaghan Kansas State University</td>
</tr>
</tbody>
</table>

### SCHOLARSHIP OF TEACHING AND LEARNING (SoTL)
**SCHEMAN 275**
**1:00PM - 2:30PM**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00pm</td>
<td>2018-0058</td>
<td>One Year Later: Lessons Learned from a Year in West Africa</td>
<td>Haley Q. Clement and Josh Stewart Oregon State University</td>
</tr>
<tr>
<td>1:15pm</td>
<td>2018-0060</td>
<td>From the Classroom to the Cocoa Farm: Preparing Recent Graduates for a Year in West Africa</td>
<td>Haley Q. Clement and Josh Stewart Oregon State University</td>
</tr>
<tr>
<td>1:30pm</td>
<td>2018-0098</td>
<td>Impacts of Short-Term Agricultural Study Abroad Programs</td>
<td>Michelle Santiago and A. George Bittel Murray State University</td>
</tr>
<tr>
<td>1:45pm</td>
<td>2018-0161</td>
<td>Undergraduates’ Perceived Personal and Social Responsibilities of Global Citizenship</td>
<td>Katelin Kitchens, Hannah Graben, and Gary Wingenbach Texas A&amp;M University</td>
</tr>
<tr>
<td>2:00pm</td>
<td>2018-0135</td>
<td>Students’ Self-Perceived Teamwork Skills Growth from Study Abroad</td>
<td>Sierra Salinas, Benjamin Johnson, Eric Minor, and Gary Wingenbach Texas A&amp;M University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0162</td>
<td>Influenced Decisions: Study Abroad Effects on Students’ Decision-Making Skills</td>
<td>Braden Deupree, Kelli Gartman, Gary Wingenbach, Tobin Redwine, and Tracy Rutherford Texas A&amp;M University</td>
</tr>
</tbody>
</table>
## SCHOLARSHIP OF TEACHING AND LEARNING (SoTL)

**SCHEMAN 150-154**

**TIME** | **ABSTRACT** | **TITLE** | **AUTHOR/AFFILIATIONS**
--- | --- | --- | ---
3:00pm | 2018-0011 | Use of In-Class, Group, Question Sets to Improve Self-Direction and Critical Thinking for Students Enrolled in a College of Agriculture | Christina H. Esquivel and Theresa Pesl Murphrey Texas A&M University

3:15pm | 2018-0029 | Skill and Attribute Demands of Agricultural Employers: A Best-Worst Scaling Approach | Michael Barrowclough, Michelle Kibler, and Josh McWilliams Illinois State University

3:30pm | 2018-0036 | How Learning Outcomes, Perception and Assessment Compare | Brian Whitaker The University of Findlay

3:45pm | 2018-0057 | Using Data to Improve Academic Programs and Student Success | Clint Ary, Jason Roberts, Joey Mehlhorn, and Scott Parrott University of Tennessee at Martin

4:00pm | 2018-0210 | Significant Learning in an Agricultural Integrated Marketing Communications Course | Lori Costello and Tracy Rutherford Texas A&M University

4:15pm | 2018-0121 | Comparing Critical Thinking Conceptualization of Faculty In and Outside Colleges of Agriculture | Jennifer Strong and Barry Boyd Texas A&M University

## INNOVATIVE TEACHING

**SCHEMAN 175-179**

**TIME** | **ABSTRACT** | **TITLE** | **AUTHOR/AFFILIATIONS**
--- | --- | --- | ---
3:00pm | 2018-0233 | Technology-Enhanced Faculty Development in Controlled Environment Animal Production | D.L. VanOverbeke, K.R. Hickman, J. Ramsey, D. Stein, R. Ramanathan, and P. Weckler Oklahoma State University

3:15pm | 2018-0075 | Facilitating Faculty Development for Classroom Excellence | Wendy Warner and Nick Fuhrman North Carolina State University

3:30pm | 2018-0048 | Teaching Deserves Recognition Too! Documenting and Gaining Recognition for Teaching Effectiveness | MaryGrace Erickson, Dan Guberman, Hao Zhu, and Elizabeth Karcher Purdue University

3:45pm | 2018-0142 | Development of a 3-Day Animal Science Mini-Internship Program | Frank Robinson and Emily Gregory University of Alberta

4:00pm | 2018-0145 | Active Learning Strategies Impact Curiosity in an Introductory Animal Science Course | Anna K. Pratt, Bishal Thapa, Kasee L. Smith, and Jeremy Falk University of Idaho
### INNOVATIVE TEACHING AND SoTL

**SCHEMAN 250-252**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00pm</td>
<td>2018-0199</td>
<td>If You Bring Them, Will They Come? The Faculty Role in On-Campus High School Events</td>
<td>Anna K. Pratt, Bishal Thapa, Kasee L. Smith, and Jeremy Falk University of Idaho</td>
</tr>
<tr>
<td>3:15pm</td>
<td>2018-0127</td>
<td>Factors Influencing Choice of Major in the College of Agriculture and Life Sciences at Iowa State University</td>
<td>Amy Powell, Greg Miller and Jodi Sterle Iowa State University</td>
</tr>
<tr>
<td>3:30pm</td>
<td>2018-0094</td>
<td>Continual Study of Factors Influencing Freshmen's Decision to Major in Agriculture</td>
<td>Amy Jo Jones, Tracie Egger, and Dennis Buckmaster Purdue University</td>
</tr>
<tr>
<td>3:45pm</td>
<td>2018-0206</td>
<td>A Survey of Introductory Soil Science Courses in the United States</td>
<td>Nicolas A. Jelinski, Colby J. Moorberg, Michel D. Ransom, and James C. Bell University of Minnesota</td>
</tr>
<tr>
<td>4:00pm</td>
<td>2018-0208</td>
<td>Growing Students' Mindset: A Lesson to Analyze Perceptions About Organic Food</td>
<td>Kevin J. Donnelly, J. Anita Dille, and Kim J. Kerschen Kansas State University</td>
</tr>
<tr>
<td>4:15pm</td>
<td>2018-0039</td>
<td>Risk Tolerance and Cheap Talk in the College Classroom</td>
<td>Maria A. Boerngen and Emmalee Hortenstine Illinois State University</td>
</tr>
</tbody>
</table>

### COMMUNICATING THE VALUE OF SCIENCE

**SCHEMAN 260-262**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00pm</td>
<td>2018-0063</td>
<td>Increasing Impact via News Feed: A Model for Research to Practice</td>
<td>Brian E. Myers, Catherine W. Shoulders, and Marshall A. Baker University of Florida</td>
</tr>
<tr>
<td>3:15pm</td>
<td>2018-0068</td>
<td>Scientific Communication: Using RLMs to Enhance Communication Education in Agriculture</td>
<td>Holli R. Leggette, Theresa Pesl Murphrey, and Shannon Norris Texas A&amp;M University</td>
</tr>
<tr>
<td>3:30pm</td>
<td>2018-0088</td>
<td>An Evaluation of Science Communication Workshops for [State] Extension Agents</td>
<td>Taylor K. Ruth, Joy N. Rumble, Lisa K. Lundy, Ricky W. Telg, and Angie B. Lindsey University of Florida</td>
</tr>
<tr>
<td>3:45pm</td>
<td>2018-0117</td>
<td>Pre-Service Students’ Beliefs about Teaching STEM in Agricultural Education</td>
<td>Richie Roberts, Antoine J. Alston, and Chasity Warren English North Carolina A&amp;T State University</td>
</tr>
<tr>
<td>4:00pm</td>
<td>2018-0137</td>
<td>Framework for Thinking Critically about Science in the Media</td>
<td>Jason Riis and Brandon McFadden Wharton School/University of Pennsylvania</td>
</tr>
<tr>
<td>4:15pm</td>
<td>2018-0180</td>
<td>Assessing the Science Literacy in Agriculture of Secondary Agricultural Education Students in Oklahoma - An Exploratory Study</td>
<td>Marshall A. Baker, Christopher Eck, and Mason Jones Oklahoma State University</td>
</tr>
</tbody>
</table>
# INNOVATIVE TEACHING AND SoTL

## SCHEMAN 275

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00pm</td>
<td>2018-0119</td>
<td>Empowering Preservice Agricultural Education Students in STEM through a Service-Learning Project</td>
<td>Richie Roberts, Chasity Warren, English, and Antoine J. Alston, North Carolina A&amp;T State University</td>
</tr>
<tr>
<td>3:15pm</td>
<td>2018-0097</td>
<td>People, Plants, and Puppies: Developing Service Learning Opportunities Across the Curriculum</td>
<td>Clint Ary, Will Bird, Sandy Mehlhorn, Jason Roberts, and Joey Mehlhorn, University of Tennessee at Martin</td>
</tr>
<tr>
<td>3:30pm</td>
<td>2018-0224</td>
<td>Integrating Service Learning into a Companion Animal Science Course Designed for Pre-Veterinary Science Majors</td>
<td>Florah N. Mhlanga, Lipscomb University</td>
</tr>
<tr>
<td>3:45pm</td>
<td>2018-0013</td>
<td>Walk the Walk: A Sustainability Program for Agricultural Partnerships</td>
<td>Rebecca A. Kurnick, Shannon K. Arnold, and Dustin K. Perry, Montana State University</td>
</tr>
<tr>
<td>4:00pm</td>
<td>2018-0016</td>
<td>Secondary Agricultural Instructors and Students’ Adoption of Sustainable Practices</td>
<td>Craig A. Kohn, Michigan State University</td>
</tr>
<tr>
<td>4:15pm</td>
<td>2018-0045</td>
<td>Curriculum Design to Grow Intercultural Competencies as Learning Outcomes</td>
<td>Lisa Lambert Snodgrass and Mark Russell, Purdue University</td>
</tr>
</tbody>
</table>

---

**Iowa State University Alumni Reception**

5:30 - 6:15pm
Reiman Gardens

**Dinner at Reiman Gardens**

6:15 - 9:15pm
Reiman Gardens

After dinner, explore the beautiful and colorful Reiman Gardens filled with unique plants, flowers and butterflies. This 17-acre attraction also features a Children’s Garden and the Christina Reiman Butterfly Wing, which is home to nearly 1,000 exotic and native butterflies living in tropical lush foliage, a reflecting pool and cascading waterfall.

Also check out the Wind, Waves & Light Sculpture Exhibit. This exhibit features 13 kinetic sculptures designed to explore space, time and the dynamic relationship of objects in motion. This exhibit is created by George Sherwood, an award-winning American sculptor.
THURSDAY, JUNE 14

ALL THURSDAY SESSIONS START AT THE SCHEMAN BUILDING AND TOURS RETURN TO SCHEMAN (WEAR YOUR SCHOOL COLORS TODAY!)

Breakfast
7:00 - 8:30am
Scheman 220-240

Committee Meetings
7:30 - 8:30am

Educational Issues and Teaching Improvement Committee
Committee Chair, Brian Pearson, University of Florida
Scheman 250-252
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
Scheman 260-262
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, Tracy Dougher, Montana State University
Scheman 275
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 (pages 17-19)
8:45 - 10:00am
Scheman 150-154, 175-179, 250-252, 260-262, 275
During this time there are five concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.

Break
10:00 - 10:15am
Scheman First Floor Lobby

Workshops (pages 20-21)
10:15am - 12:00pm
Scheman 150-154, 175-179, 250-252, 260-262, 275, 299
THURSDAY, JUNE 14

Boxed Lunches
11:45am - 12:30pm
Scheman First Floor Lobby

Show your ticket, grab your lunch, and then head to Lot F to board your bus or van for the tours. Refer to page 39 to view a map on how to get there.

Tour Departure
12:15 - 12:30pm
Lot F

Several tours are full. Confirmation of the tour you selected was sent via the registration email confirmation, and is included on your nametag, in your registration packet. See page 22 for tour descriptions. Any questions, please come to the registration desk. All tours require closed-toed shoes.

The Des Moines is Des Place and Iowa’s Industries tours are both about 45 minutes from Ames. As a result, both of these tours should be back to Ames about 6:30pm (depending on traffic). The other tours are scheduled to return to the Scheman building by 5:30pm.

Dinner on your own
5:30pm

Ames has a diverse selection of local restaurants and a great variety of regional and national options, all conveniently located just minutes from campus. From sports pubs to cafes, locally crafted beers and wine to fine coffee, international cuisine to local ingredients, Ames has a taste and a place for you. Visit our website ThinkAmes.com or scan this QR code to see a full list of restaurants around the area.

Graduate Student Reception
6:00 - 8:00pm
Dublin Bay Irish Pub & Grill

Graduate students- come join your student colleagues for an informal gathering hosted by members of the NACTA Executive Committee. Meet at Dublin Bay Irish Pub and Grill located just south of the Scheman building. NACTA will provide the appetizers! Dublin Bay is a full-service pub and offers Irish cuisine ranging from sandwiches, soups and salads, to full dinners and Irish fayre. Refer to page 37 to view a map on how to get there.
## Scholarships of Teaching and Learning (SoTL)

**Scheman 150-154**  
8:45AM - 10:00AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract</th>
<th>Title</th>
<th>Author/Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45am</td>
<td>2018-0081</td>
<td>Effects of Note-Taking Pairs on Students’ Reading Retention of Scientific and Popular Press Articles</td>
<td>Christen Burgett, Joshua Mitchell, and Jennifer Bundy Iowa State University</td>
</tr>
<tr>
<td>9:15am</td>
<td>2018-0163</td>
<td>The Effects of Participation in Undergraduate Research on Soft Skills and Career Plans</td>
<td>Alyssa Oates, Laura White, and Ashley Hansen New Mexico State University</td>
</tr>
<tr>
<td>9:30am</td>
<td>2018-0188</td>
<td>Using Speed Rounds to Balance Classroom Debate Participation across Personality Types</td>
<td>Julianne Treme North Carolina State University</td>
</tr>
<tr>
<td>9:45am</td>
<td>2018-0070</td>
<td>Plant Conservation: What’s Taught Versus What’s Sought</td>
<td>Kevin Tarner and Nick Fuhrman University of Georgia</td>
</tr>
</tbody>
</table>

## Innovative Teaching

**Scheman 175-179**  
8:45AM - 10:00AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract</th>
<th>Title</th>
<th>Author/Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45am</td>
<td>2018-0100</td>
<td>Using Flipgrid© to Assess Student Reflections</td>
<td>Kellie Claflin and Josh Stewart Oregon State University</td>
</tr>
<tr>
<td>9:00am</td>
<td>2018-0095</td>
<td>Flipping a Classroom into a Congress to Incite Learning About the Policy Process</td>
<td>Thomas Kuzmic Oklahoma State University</td>
</tr>
<tr>
<td>9:30am</td>
<td>2018-0017</td>
<td>Collaborative Flipped Classrooms: A Transformative Approach to Teaching Technical Writing</td>
<td>James C. Anderson II and Shannon R. Wiley University of Georgia</td>
</tr>
<tr>
<td>9:45am</td>
<td>2018-0226</td>
<td>Using Challenge-Based Learning Theory to Teach Basic Electricity Concepts and Skills to Youth</td>
<td>Roger Tormochlen, William Vollmer, and Richard Fox Purdue University</td>
</tr>
</tbody>
</table>

During this time there are five concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.
## ORAL PRESENTATIONS (AM)

### INNOVATIVE TEACHING

**SCHEME 260-262**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45am</td>
<td>2018-0196</td>
<td>Seeds for the Future: Workplace Readiness Skills for Tomorrow’s Agricultural Workforce</td>
<td>Rachel Hendrix and Carley C. Morrison, <em>Mississippi State University</em></td>
</tr>
<tr>
<td>9:15am</td>
<td>2018-0096</td>
<td>Enhancing the Professional Dimension of Undergraduate Capstone Experiences</td>
<td>Thomas Kuzmic, <em>Oklahoma State University</em></td>
</tr>
<tr>
<td>9:30am</td>
<td>2018-0067</td>
<td>Guidelines for Developing Instructional Modules to Improve College Students’ Communication Skills: Voices of Faculty and Industry</td>
<td>Theresa Pesl Murphrey, Holli R. Leggette, and Shannon Norris, <em>Texas A&amp;M University</em></td>
</tr>
<tr>
<td>9:45am</td>
<td>2018-0130</td>
<td>Students’ Views of Employability Skills Gained from Short-Term High Impact Experiences</td>
<td>Coy Westbrook and Gary Wingenbach, <em>Texas A&amp;M University</em></td>
</tr>
</tbody>
</table>

**SCHEME 250-252**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45am</td>
<td>2018-0147</td>
<td>Exploring Factors to Help Recruit and Retain Underrepresented Minority Students</td>
<td>Haley Q. Clement, Jonathan J. Velez, Penelope L. Diebel, Katie Gaebel, and Susan Rowe, <em>Oregon State University</em></td>
</tr>
<tr>
<td>9:00am</td>
<td>2018-0126</td>
<td>Exploring the Cultural Context of Agricultural Education for Military Veterans</td>
<td>Crystal Kyle and Kim Niewolny, <em>Virginia Tech</em></td>
</tr>
<tr>
<td>9:15am</td>
<td>2018-0169</td>
<td>Enabling Access to Nontraditional Destinations: Including Students with Disabilities on Faculty-Led Study Abroad Programs</td>
<td>Jan Brooks, Susann Sears, TeKisha Rice, and Cagla Giray, <em>University of Illinois</em></td>
</tr>
<tr>
<td>9:30am</td>
<td>2018-0231</td>
<td>Experiential Learning in Environmental Control of Animal Production for Minority Students</td>
<td>Lingying Zhao, Lingjuan Wang Li, Ralph C. Noble, Mulumebet Worku, Ann D. Christy, Xinlei Wang, and Rick Stowell, <em>The Ohio State University</em></td>
</tr>
<tr>
<td>9:45am</td>
<td>2018-0015</td>
<td>International Graduate Students’ Perception of Socio-Communicative, Teaching, and Learning Style</td>
<td>Adeola Ogunade and Lisa K. Lundy, <em>University of Florida</em></td>
</tr>
</tbody>
</table>
**INNOVATIVE TEACHING**

**SCHEMAN 275**  
8:45AM - 10:00AM

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
</table>
| 8:45am | 2018-0073 Introductory Organic Agriculture Curriculum for Undergraduate Students in the United States | Randa Jabbour and Makenzie Pellissier  
*University of Wyoming* |                                                                         |
| 9:00am | 2018-0122 A New Model for Open-Source Development of Institution-Specific Textbooks and Laboratory Manuals | Colby J. Moorberg and David A. Crouse  
*Kansas State University* |                                                                         |
*Texas A&M University* |                                                                         |
| 9:30am | 2018-0129 The Effects of Food Waste Education on Student Knowledge, Attitudes, and Plate Waste | Rebecca Busse and Rod N. Williams  
*Purdue University* |                                                                         |
| 9:45am | 2018-0246 Facilitating Baccalaureate Program Enrollment in Two-Year College Students: A Case Study | Ron Rosati, Tiffany Heng-Moss, and Doug Smith  
*Nebraska College of Technical Agriculture* |                                                                         |
SCHEMAN 175-179
Creating an Inclusive Classroom
Laura Bestler, Sara Marcketti, and Ann Marie VanDerZanden, Iowa State University

Since 2016, the Iowa State University Center for Excellence in Learning and Teaching has lead an Inclusive Classroom Workshop. Participants in this approximately 2-hour training: identify their own attitudes towards inclusion and determine how it impacts teaching; enhance instructional skills that contribute to an inclusive campus environment; and learn about student support resources. In this abbreviated workshop for the NACTA conference, participants will complete many of the full workshop elements. Four short learning modules are available through CELT's (Public) Inclusive Classroom Online Modules site (https://canvas.iastate.edu/courses/49066).

The information will be instrumental to our face-to-face program; therefore, we encourage you to review the modules prior to the event. After completing the pre-workshop learning modules and the face-to-face program, participants will have: 1) identified discipline-based and course specific improvements to foster inclusive excellence in the classroom; 2) developed an individual action plan for promoting inclusion in the classroom; and 3) become familiar with resources that support diversity and inclusion.

SCHEMAN 250-252
Developing Intercultural Competence in Students Through Study Abroad Experiences
Mary Wiedenhoeft and Shelley Taylor, Iowa State University

Globalization has created a demand for increased intercultural competence in college graduates who will soon enter the 21st-century workforce. During this workshop, we will introduce study abroad as a tool for providing intercultural competence, explore some tools used for assessing intercultural competence for students participating in study abroad, and work interactively to help participants apply these tools and questions to their own situations.

SCHEMAN 260-262
Intentional Learning: Maximizing Transformational Learning Experiences with Purposeful Reflection
Daniel Foster and Matt Reutlinger, Pennsylvania State University

“We do not learn from experience, we learn from reflecting on experience.” (John Dewey)

The goal of this interactive workshop will be to utilize a three-dimensional matrix as a pedagogical tool to empower participants to consider reflection in a tactile way. Upon completion of the session, participants will be able to: 1) provide an example of four common genres of reflection; 2) plot and manipulate reflection strategies (new or familiar) on a three-dimensional matrix; 3) identify factors that dictate movement of reflection strategies around the matrix; 4) identify additional references and resources for facilitating reflection; and 5) discuss best practices for future implementation in courses and learning experiences.
We Are All Experiential Educators - Clarifying the Role We Play in Facilitating Great Thinking Through Experience
Marshall A. Baker and Lauren Cline, Oklahoma State University

Experiential learning is about a holistic student learning process that includes every element of a student’s college experience—from classroom to internship. And, educators play four vital roles in facilitating this experiential process for students: (a) facilitator, (b) expert, (c) evaluator/standard setter, (d) coach. In this workshop, participants will: 1) learn about the experiential learning process; 2) understand how our own learning styles impact our teaching; 3) identify the four key roles educators have in facilitating true learning; 4) take and interpret the Kolb Educator Role Profile to assess individual preferences in the four experiential teaching roles; 5) explore a conceptual model of experiential learning and identify specific strategies to make our classes more experiential.

Making Learning Come Alive: Using 360 Video, Augmented and Mixed Reality in Agriculture
OP McCubbins and Will Bird, Tennessee Technological University

Creating engaging learning environments can be challenging for educators at all levels. This workshop aims to empower instructors to create and implement dynamic instructional materials in their courses to make learning come alive. Instructors will learn how to capture and share 360 degree videos, design augmented reality learning objects, and leverage students’ personal devices to maximize learning. Topics will assist educators in meeting the needs students who increasingly prefer technology integration in learning environments.

Promoting Yourself: How to Showcase SoTL in Your P&T Dossier
Tracy Hoover, Pennsylvania State University
Jeff Hattey, The Ohio State University

This workshop will focus on how the Scholarship of Teaching and Learning (SoTL) can be incorporated into promotion and/or tenure dossiers. The program will feature administrators from different institutions who will share how SoTL is evaluated in the tenure and/or promotion process. Additionally, the workshop will feature a panel discussion with newly promoted faculty from different institutions as well as the opportunity to engage through roundtable discussions.
TOURS

Hops and barley pops, vines and wines
Head out to the Department of Horticulture’s Horticulture Research Station to get a first-hand look at what we are growing. Turfgrass, conventional and organic vegetable, orchards, vineyards, and hop yard are some of what you’ll see. After the tour, you will head over to a local winery and brewery to sample some local craft beer or wine.

Wild Iowa
Are you interested in seeing a wilder side of Iowa? This tour will visit different sites including Doolittle Prairie and Ledges State Park to show some outstanding natural areas. Doolittle Prairie is a remnant section of virgin tallgrass prairie, which used to cover most of Iowa, while Ledges State Park is the second oldest state park in Iowa which preserves limestone canyons next to the Des Moines river.

Iowa’s Industries Tour
Get behind the scenes in Iowa’s agriculture industry! This tour will visit two different facilities. The Pioneer Hi-Bred headquarters in Johnston will include a tour of their state-of-the-art fully automated greenhouse facilities where corn and soybeans are bred. We will also visit the John Deere factory in Ankeny where sprayers, cotton pickers, tillage equipment, and seed drills are built.

Agriculture Technology Tour
Are you interested in seeing a more technical side of Iowa State University? Then join the agriculture technology tour! We will visit the Biocentury Farm west of campus, the first fully integrated research and demonstration facility dedicated to producing and processing biomass for fuels. We will also visit the new Sukup and Elings Halls- the home of the Department of Agriculture and Biosystems Engineering and their associated research labs.

Learning spaces and places
Unique learning environments can create opportunities for students and faculty alike, and Iowa State University tries to create these spaces. This tour is going to focus on some of the unique agriculture learning spaces on our campus, including the Hansen Agriculture Learning Center, Dairy Science Farm, and the AG 450 Farm (the only completely student-managed farm at a land-grant university).

Des Moines is Des Place!
Did you know that Des Moines is French for “the monks”? If you are interested in learning more about the State Capitol, consider getting on the bus to visit some highlights of downtown Des Moines, including the Meredith Corporation (publishers of Better Homes and Gardens) and the World Food Prize.
FRIDAY, JUNE 15

ALL FRIDAY SESSIONS START AT THE SCHEMAN BUILDING

Breakfast
7:00 - 8:30am
Scheman 220-240

Committee Meetings
7:30 - 8:30am

Journal Committee
Committee Chair, Rick Parker, College of Southern Idaho
Scheman 250-252
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
Scheman 260-262
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
Scheman 275
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
Scheman 175-179
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.
ALL FRIDAY SESSIONS START AT THE SCHEMAN BUILDING

**Blue Ribbon Presentation, “You Still Teach?”**
9:00 - 10:00am
Benton Auditorium

Rick Parker, President of the National Agricultural Institute  
Journal Editor for North American Colleges and Teachers of Agriculture (NACTA)  

*Introduced by: Brian Pearson, Chair Educational Issues & Teaching Improvement Committee*

**Poster Session 2 (pages 33-36)**
10:15am - 12:00pm
Scheman Second Floor Lobby

Posters have been assigned a location number. This information can be found on pages 33-36. All posters should be set up by Wednesday 8:30am and remain up until 2pm on Friday. Any posters remaining after 2pm, can be collected at the first floor registration desk. *Please be available at your poster on your assigned date/time.*

**Lunch and Business Meeting**
12:00 - 1:45pm
Scheman 220-240

The NACTA Annual Business meeting is held during lunch and will provide members an update on the NACTA organization overall, including officer elections, membership, and financial updates. The NACTA 2019 College of Southern Idaho organizing committee will also give a sneak peak of the 2019 Conference-Connecting to STEM.

**Oral Presentations (pages 25-27)**
2:00 - 4:15pm
Scheman 175-179, 250-252, 260-262, 275

During this time there are four concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.

**Social Hour**
5:30 - 6:30pm
Gateway Hotel and Conference Center, Prairie Ballroom

**Awards Banquet and Closing Ceremony**
6:30 - 8:30pm
Gateway Hotel and Conference Center, Prairie Ballroom

The Awards Banquet is the final official event of the conference. This event includes a dinner followed by an awards program to celebrate our successes as educators and recognize our outstanding teaching colleagues. There will be plenty of time for conversation and discussing plans to attend the 2019 NACTA Conference.
During this time there are four concurrent sessions. You are welcome to move from one session to another, just remember to please exit/enter quietly in order to respect the presenters and fellow attendees.

### ORAL PRESENTATIONS (PM)

#### SCHEMAN 260-262

**2:00PM - 4:15PM**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00pm</td>
<td>2018-0170</td>
<td>Media Products as End-of-Unit Assessments</td>
<td>Grant L. Ermis and Josh Stewart</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oregon State University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0214</td>
<td>Dyads and Friends: Perceived Communication Competencies in Academic Advising</td>
<td>Tobin Redwine and Taylor Rogers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>2:30pm</td>
<td>2018-0215</td>
<td>Nexus of Food and Nutritional Security, Sustainability and Hunger Graduate Course</td>
<td>Ryan Kornegay, Mingla</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Charoenmuang, Neil Knobloch, Bhimanagouda Patil, Dilip Lalwani, and Jessica Cooperstone</td>
</tr>
<tr>
<td>2:45pm</td>
<td>2018-0037</td>
<td>An Innovative Project-Based Learning Approach to Engage Undergraduate Students in Research</td>
<td>Shyam Nair, Danhong Chen, L.A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wolfskill, E.D. Mills Jr.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sam Houston State University</td>
</tr>
<tr>
<td>3:00pm</td>
<td>2018-0087</td>
<td>Thinking Well - Scaling Research Through Critical Conversations</td>
<td>Marshall A. Baker, Catherine W</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Shoulders, and Brian E. Myers</td>
</tr>
<tr>
<td>3:15pm</td>
<td>2018-0044</td>
<td>Self-Monitoring of Academic Writing: A Case Study</td>
<td>Wendy J. Dahl and Lincoln Zotarelli</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University of Florida</td>
</tr>
<tr>
<td>3:30pm</td>
<td>2018-0237</td>
<td>An Integrated Scientific Writing Course Supports Graduate Student Success in Research Publication</td>
<td>Richard C. Pratt, Michelle L.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jones, Brian J. Schutte, and Emilie E. Regnier</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>New Mexico State University</td>
</tr>
<tr>
<td>3:45pm</td>
<td>2018-0116</td>
<td>Buzz Group Methodology: Setting the Hive In Your Own Classroom</td>
<td>Jason Headrick</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University of Nebraska-Lincoln</td>
</tr>
<tr>
<td>4:00pm</td>
<td>2018-0164</td>
<td>Sojourner and Apprentice: Graduate Student Experiences in the Agriculture and Life Sciences</td>
<td>Jennifer Helms Culhane</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Virginia Tech</td>
</tr>
</tbody>
</table>

#### SCHEMAN 175-179

**2:00PM - 4:15PM**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00pm</td>
<td>2018-0213</td>
<td>Strategies to Improve Experiential Learning Opportunities at a University Equine Center</td>
<td>Kristine Vernon</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Clemson University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0154</td>
<td>Assessment of Critical Thinking Skills in the Animal Science Curriculum</td>
<td>Sarah Al-Mazroa, Michael Retallick, and Brad Skaar</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Iowa State University</td>
</tr>
<tr>
<td>2:30pm</td>
<td>2018-0217</td>
<td>Using an Agriculture Club to Enhance Student Learning, Engagement and Development</td>
<td>Dean L. Winward, Lee G. Wood, Chad L. Gasser, and Randall D. Violett</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Southern Utah University</td>
</tr>
</tbody>
</table>
## INNOVATIVE TEACHING (CONTINUED)

**SCHEMEN 175-179**

**TIME** | **ABSTRACT** | **TITLE** | **AUTHOR/AFFILIATIONS**
--- | --- | --- | ---
2:45pm | 2018-0008 | Use of Appropriate Humor to Enhance Student Engagement and Learning | D. M. Johnson  
*University of Arkansas*

*Sam Houston State University*

*University of Idaho*

3:30pm | 2018-0031 | Integrating Experiential Learning into Agribusiness Entrepreneurship Education | Danhong Chen, Foy D. Mills, Jr., Shyam S. Nair, and L. A. Wolfskill  
*Sam Houston State University*

3:45pm | 2018-0166 | The Benefits of Living in an Agricultural Residential College | Betsy Garrison, Kristin Stair, Michael Kaller, and Robert Rohli  
*University of Arkansas*

4:00pm | 2018-0249 | Effectiveness of a Hands-On Learning Based Approach to Livestock Handling, Safety, and Welfare | Jennifer Bundy, Anna Johnson, Jodi Sterle, and Gregory Krahn  
*Iowa State University*

## COMMUNICATING THE VALUE OF SCIENCE, SoTL, INNOVATIVE TECHNOLOGY

**SCHEMEN 250-252**

**TIME** | **ABSTRACT** | **TITLE** | **AUTHOR/AFFILIATIONS**
--- | --- | --- | ---
2:00pm | 2018-0219 | Instructional Resources to Teach Science Concepts while Promoting Careers in Horticulture | Nicole Martini, Kimberly A. Williams, Gaea Hock, and Chad T. Miller  
*Kansas State University*

2:15pm | 2018-0192 | Rolling the Academic Integrity Dice: Cheating or Collaboration | Donna L Graham and K. Jill Rucker  
*University of Arkansas*

2:30pm | 2018-0198 | Building a Community of Learners: Strategies to Enhance Student Engagement and Learning | Katherine R. VanValin and Stephanie L. Hansen  
*Iowa State University*

2:45pm | 2018-0125 | STEM, Project-Based Authenticity; More is Not Always Better | Jason D. McKibben and Timothy H. Murphy  
*West Virginia University*

3:00pm | 2018-0152 | Updating Agricultural Communications Curriculum: A Delphi Study | Taylor Kennedy, Shelly Sitton, Dwayne Cartmell, and Shane Robinson  
*Oklahoma State University*

3:15pm | 2018-0034 | A Summary of Agricultural Mechanical Competencies after High School Matriculation | Douglas D. LaVergne  
*Texas A&M University-Commerce*
### ORAL PRESENTATIONS (PM)

#### INNOVATIVE TEACHING & SoTL

<table>
<thead>
<tr>
<th>TIME</th>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00pm</td>
<td>2018-0176</td>
<td>Improving Student Success and Engagement in a Biochemistry Lab Course</td>
<td>Orla M. Hart, Purdue University</td>
</tr>
<tr>
<td>2:15pm</td>
<td>2018-0090</td>
<td>Understanding (Dis)Engagement by Disrupting &amp; Reversing the Experiential Learning Sequence</td>
<td>Ashley M. Yopp, Billy R. McKim, Yvonna S. Lincoln, and Tobin D. Redwine, University of Georgia</td>
</tr>
<tr>
<td>2:30pm</td>
<td>2018-0035</td>
<td>Using Student Affective Motivation as an Assessment of Dairy E-Learning Modules</td>
<td>Emma C. Allen, Mark Tucker, Hui-Hui Wang, and Colleen Brady, Purdue University</td>
</tr>
<tr>
<td>3:00pm</td>
<td>2018-0056</td>
<td>Growing the Livestock Adventure for Youth: A Replacement Beef Heifer Development Contest</td>
<td>F. Dean Jousan, W. Cobie, Rutherford, and Laura L. Greenhaw, Mississippi State University</td>
</tr>
<tr>
<td>3:15pm</td>
<td>2018-0099</td>
<td>Eww, You’re Eating It: Innovative Approaches to Conquering Fear of the Unknown</td>
<td>Macdonald Burgess, Montana State University</td>
</tr>
<tr>
<td>3:30pm</td>
<td>2018-0181</td>
<td>A Whole New Adventure: Student Success through an Agricultural Living-Learning Community</td>
<td>Andrea L. Simpson, Laura L. Greenhaw, and Carley C. Morrison, Mississippi State University</td>
</tr>
<tr>
<td>3:45pm</td>
<td>2018-0052</td>
<td>Preparing Interculturally Competent Agriculture Students</td>
<td>Pamala Morris and Shalyse Iseminger, Purdue University</td>
</tr>
</tbody>
</table>

#### SATURDAY, JUNE 16

**NACTA Executive Committee Meeting**
9:00am - 12:00pm
Scheman Boardroom 080
POSTER LAYOUT
SCHEMAN: SECOND FLOOR
<table>
<thead>
<tr>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
<th>POSTER #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-0253</td>
<td>Implementation of a Bioinformatics Project in an Undergraduate Genetics Course</td>
<td>Gabrielle Johnson, Keenan Amundsen, Joseph Dauer, Tiffany Heng-Moss, and Donald Lee <em>University of Nebraska-Lincoln</em></td>
<td>91</td>
</tr>
<tr>
<td>2018-0254</td>
<td>Expectations and Experience of Mentoring in an Undergraduate Summer Research Internship</td>
<td>Carol A. Speth, Martha Mamo, Donald J. Lee, Leah Sandall and Salvador Ramirez, Jr. <em>University of Nebraska-Lincoln</em></td>
<td>89</td>
</tr>
<tr>
<td>2018-0252</td>
<td>Effects of Active Learning Activities on Student Engagement with Scientific Practices</td>
<td>Yujin Park and Diane Ebert-May <em>Michigan State University</em></td>
<td>18</td>
</tr>
<tr>
<td>2018-0132</td>
<td>Cloverbud and Grow with Mini 4-H Camp</td>
<td>Dottie L. Vollmer and Levon T. Esters <em>Purdue University</em></td>
<td>50</td>
</tr>
<tr>
<td>2018-0133</td>
<td>Cultivating Content Knowledge Through a High Impact Learning Opportunity</td>
<td>Gaea Hock, Brandie Disberger, Jon Ulmer, and R. Bud McKendree <em>Kansas State University</em></td>
<td>84</td>
</tr>
<tr>
<td>2018-0134</td>
<td>The Grass is Greener: Student Perceptions of an Agronomic Experiential Learning Activity</td>
<td>Heather Glennon <em>University of Missouri</em></td>
<td>70</td>
</tr>
<tr>
<td>2018-0136</td>
<td>Collaborating to Recruit the Future: Pre-College Program Development, Assessment, and Impact</td>
<td>Amy Jo Jones and Myron McClure <em>Purdue University</em></td>
<td>64</td>
</tr>
<tr>
<td>2018-0138</td>
<td>Lighting the Fire: Reflection of a Prescribed Burn Experiential Learning Opportunity</td>
<td>Drew Ricketts and Gaea Hock <em>Kansas State University</em></td>
<td>86</td>
</tr>
<tr>
<td>2018-0143</td>
<td>Assessing the Long-Term Benefit of International Agricultural Study Travel Courses</td>
<td>Mary H. Wiedenhoeft, Robert Butcher, and Thomas E. Loynachan <em>Iowa State University</em></td>
<td>42</td>
</tr>
<tr>
<td>2018-0146</td>
<td>Non-Major Student Perception of Accuracy of Content About the Loss of Pollinators Varies by Delivery Mode</td>
<td>W. Wyatt Hoback, Tracy Boyer, and Karthik Ramaswamy <em>Oklahoma State University</em></td>
<td>93</td>
</tr>
<tr>
<td>2018-0149</td>
<td>Science Literacy and Public Policy: Preaching Outside the Choir</td>
<td>Kevin W. Curry Jr. <em>North Carolina State University</em></td>
<td>58</td>
</tr>
<tr>
<td>2018-0153</td>
<td>An Exploration of Agricultural Extension Education Graduate Degree Programs in the U.S.</td>
<td>Kelsey Sands and Michael Retallick <em>Iowa State University</em></td>
<td>10</td>
</tr>
<tr>
<td>2018-0156</td>
<td>Teachers Perspectives Regarding Effectiveness of Online Lessons in School-Based Agricultural Education (SBAE)</td>
<td>Rudy Tarpley, Katherine Adams, David Frazier, Wayne Atchley, and Chandra Andrew <em>Tarleton State University</em></td>
<td>7</td>
</tr>
<tr>
<td>2018-0157</td>
<td>Problem-Based Ethical Learning in Veterinary Medicine</td>
<td>Heloisa M. Rutigliano and Chris L. Chapman <em>Utah State University</em></td>
<td>62</td>
</tr>
<tr>
<td>2018-0158</td>
<td>Using Concept Maps to Promote Content Integration</td>
<td>Heloisa M. Rutigliano <em>Utah State University</em></td>
<td>63</td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>TITLE</td>
<td>AUTHOR/AFFILIATIONS</td>
<td>POSTER #</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>2018-0159</td>
<td>Improving Data Granularity in the Food &amp; Agricultural Education Information System (FAEIS)</td>
<td>Andrew Meeks, Declan Jalil, and Pete Ziegler, Virginia Tech</td>
<td>59</td>
</tr>
<tr>
<td>2018-0160</td>
<td>Pre-Class Online Quizzes on Reading Assignments: Student Behavior and Relation with Achievement</td>
<td>M. A. Wattiaux, W. Wang, and P. Crump, University of Wisconsin-Madison</td>
<td>24</td>
</tr>
<tr>
<td>2018-0165</td>
<td>Searching for Success: Rethinking Graduate Admissions</td>
<td>M. J. Anderson and S. S. Nair, Sam Houston State University</td>
<td>51</td>
</tr>
<tr>
<td>2018-0167</td>
<td>Review of Historical Developments in Required Courses in a College of Agriculture</td>
<td>Jacie Grant, Colleen Kelly, Neil Knobloch, and Elizabeth Karcher, Purdue University</td>
<td>30</td>
</tr>
<tr>
<td>2018-0168</td>
<td>Factors Limiting Participation by Secondary Agriculture Teachers in the World Food Prize Purdue Youth Institute</td>
<td>Kraig Bowers and B. Allen Talbert, Purdue University</td>
<td>44</td>
</tr>
<tr>
<td>2018-0171</td>
<td>Using Landlabs to Ground Learning in Practice</td>
<td>Grant L. Ermis and Josh Stewart, Oregon State University</td>
<td>95</td>
</tr>
<tr>
<td>2018-0172</td>
<td>STEM Academic Days: Increasing STEM Interest with Underrepresented Groups</td>
<td>Melissa (Voigt) Huppert and Aaron Budge, Minnesota State University, Mankato</td>
<td>26</td>
</tr>
<tr>
<td>2018-0174</td>
<td>Real-World Learning through Engaging Students with Farmers and Extension Faculty</td>
<td>Kulbhushan Grover, New Mexico State University</td>
<td>12</td>
</tr>
<tr>
<td>2018-0178</td>
<td>Teaching the Science of Nontraditional Water on Food Crops, with Animations and Interactive Media</td>
<td>Jeanne Gleason, Barbara Chamberlin, Pamela Martinez, Elizabeth Sohn, Amy Smith Muise, and Rachel Rosenberg Goldstein, New Mexico State University</td>
<td>75</td>
</tr>
<tr>
<td>2018-0182</td>
<td>Perceived Changes in Intercultural Knowledge and Competence from Study Abroad</td>
<td>Brooklyn Morrow, Taylor Emola, Gary Wingenbach, Tobin Redwine, and Tracy Rutherford, Texas A&amp;M University</td>
<td>46</td>
</tr>
<tr>
<td>2018-0184</td>
<td>A Design Process for Multimedia Learning Tools</td>
<td>Pamela Martinez, Barbara Chamberlin, Jeanne Gleason, Amy Smith Muise, and April Ulery, New Mexico State University</td>
<td>76</td>
</tr>
<tr>
<td>2018-0187</td>
<td>Farm to Fork: An Honors Course on Food Systems</td>
<td>Robert Williams, Chelsea Arnold, Jennifer Lopez, Texas A&amp;M-Commerce</td>
<td>106</td>
</tr>
<tr>
<td>2018-0189</td>
<td>Supporting Students in Verbal Communication Courses: Insight on Reducing Speaker Apprehension</td>
<td>D. Adam Cletzer, Tanner L. Adkins, Sophia Mendelson, and Emily Schuckenbrock, University of Missouri</td>
<td>56</td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>TITLE</td>
<td>AUTHOR/AFFILIATIONS</td>
<td>POSTER #</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>2018-0190</td>
<td>A Land-Grant Model: Connecting University and High School Teachers through STEM Adventure</td>
<td>Mingla Charoenmuang, Hui-Hui Wang, Neil A. Knobloch, and Roger Tormoehlen Purdue University</td>
<td>33</td>
</tr>
<tr>
<td>2018-0191</td>
<td>PK-12 workshops Focused on Parent Engagement of Non-Traditional Students in College of Agriculture</td>
<td>Yujie Huang, Alex Pettigrew, and Neil Knobloch Purdue University</td>
<td>36</td>
</tr>
<tr>
<td>2018-0193</td>
<td>Role of Women's Empowerment in Sustainable Development Goals</td>
<td>Liz Alexander and Levon T. Esters Purdue University</td>
<td>47</td>
</tr>
<tr>
<td>2018-0194</td>
<td>Integrated STEM Learning with Stella the Great and Bruno Uptown Funk Boss</td>
<td>Trinity Johnson, Alexandria Pettigrew, Hui Hui Wang, and Neil Knobloch Purdue University</td>
<td>35</td>
</tr>
<tr>
<td>2018-0195</td>
<td>Creative Classroom Activities</td>
<td>Sergio Abit, Angel Riggs, and Bailey Norwood Oklahoma State University</td>
<td>81</td>
</tr>
<tr>
<td>2018-0200</td>
<td>Old vs. New: Comparing Performance on Two State Teacher Certification Tests in Agriculture</td>
<td>Dwayne Pavelock, Shyam Nair, and Doug Ullrich Sam Houston State University</td>
<td>5</td>
</tr>
<tr>
<td>2018-0201</td>
<td>Performance of Agriculture Teacher Candidates on a General Pedagogy State Teacher Certification Exam</td>
<td>Dwayne Pavelock, Shyam Nair, and Doug Ullrich Sam Houston State University</td>
<td>3</td>
</tr>
<tr>
<td>2018-0202</td>
<td>How to Improve Classroom Evaluation of Learning Tools</td>
<td>April Ulery, Amy Smith Muise, Barbara Chamberlin, Jeanne Gleason, and Kenneth Carroll New Mexico State University</td>
<td>79</td>
</tr>
<tr>
<td>2018-0204</td>
<td>Early College in Agriculture Education</td>
<td>Sharad P. Marahatta, Gigi Drent, Brandon Fujita, and Kylie K. Hashizaki Kauai Community College, University of Hawaii</td>
<td>1</td>
</tr>
<tr>
<td>2018-0205</td>
<td>Teaching Undergraduate Research Students the Value of Communicating Science</td>
<td>Amy Jo Jones, Mary Helen Halsema, and Mark Tucker Purdue University</td>
<td>54</td>
</tr>
<tr>
<td>2018-0207</td>
<td>A Front-End Analysis of Perceptions and Needs of Faculty Regarding Online Courses</td>
<td>Elise A. Lofgren, Colleen M. Brady, and Mark A. Russell Purdue University</td>
<td>77</td>
</tr>
<tr>
<td>2018-0209</td>
<td>Developing Global Competencies through Undergraduate Bi-National Team Activities</td>
<td>Gail Nonnecke, Kevin Duerfeldt, Julie Blanchong, Dorothy Masinde, and David Acker Iowa State University</td>
<td>40</td>
</tr>
<tr>
<td>2018-0211</td>
<td>Teaching Writing through Grant Narratives</td>
<td>Becky Haddad, Haley Q. Clement, and Jonathan J. Velez Oregon State University</td>
<td>66</td>
</tr>
<tr>
<td>2018-0212</td>
<td>What's on Your Syllabus? Preventing Student Academic Integrity Violations</td>
<td>K. Jill Rucker and Donna L. Graham University of Arkansas</td>
<td>71</td>
</tr>
<tr>
<td>2018-0220</td>
<td>Multiple Homework Attempts - A Strategy for Student Success?</td>
<td>Craig S. Darroch University of Tennessee at Martin</td>
<td>73</td>
</tr>
<tr>
<td>Poster #</td>
<td>Title</td>
<td>Authors/Affiliations</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>2018-0221</td>
<td>Promoting Indirect Academic Outcomes and Future Aspirations via Food and Garden Activities</td>
<td>Mingla Charoenmuang, Amonté L. Martin, Sr., Neil A. Knobloch, Levon T. Esters, and Sybil S. Kelley Purdue University</td>
<td></td>
</tr>
<tr>
<td>2018-0222</td>
<td>Understanding Student Dynamics Associated with Repeated Probation and Suspension</td>
<td>Anya Work and Pete Ziegler Virginia Tech</td>
<td></td>
</tr>
<tr>
<td>2018-0223</td>
<td>The Redesign of a Social Justice Course in Agriculture</td>
<td>Pamala Morris and Myron McClure Purdue University</td>
<td></td>
</tr>
<tr>
<td>2018-0225</td>
<td>A Novel Teaching Approach to Enhance Students’ Understanding of Food Safety Regulations</td>
<td>Ravi Jadeja and Ranjith Ramanathan Oklahoma State University</td>
<td></td>
</tr>
<tr>
<td>2018-0238</td>
<td>A Student Hosted Cattle Sale as an Approach to Experiential Learning</td>
<td>Wade Lang, Courtney Biles, and Erin Brown Stephen F. Austin State University</td>
<td></td>
</tr>
<tr>
<td>2018-0245</td>
<td>An International Model for Building Authenticity in the Classroom</td>
<td>Billye Foster Tennessee Tech University</td>
<td></td>
</tr>
<tr>
<td>2018-0247</td>
<td>Instructor Experiences in Implementing ECEAP ELearning Curriculum</td>
<td>Richard Stowell, Lingjuan Wang-Li, and Lingying Zhao University of Nebraska</td>
<td></td>
</tr>
<tr>
<td>2018-0248</td>
<td>Ag Mashup: Blending Agricultural and Communications Students and Faculty in the Classroom to Increase Agricultural Communication and Literacy</td>
<td>Jason P. de Koff and Nicole Kraft Tennessee State University</td>
<td></td>
</tr>
<tr>
<td>2018-0250</td>
<td>Spreading the Word: A Qualitative Study Exploring Educational Needs on Zoonotic Disease Spread and Prevention</td>
<td>Mariah Bausch and Lauri Baker Kansas State University</td>
<td></td>
</tr>
<tr>
<td>2018-0251</td>
<td>Taking Advantage of a Stinky Opportunity to Promote Science</td>
<td>Chad T. Miller Kansas State University</td>
<td></td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>TITLE</td>
<td>AUTHOR/AFFILIATIONS</td>
<td>POSTER #</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td>2018-0227</td>
<td>Summer Garden Camp for Toddlers and Their Guardians</td>
<td>Mingla Charoenmuang, Purdue University</td>
<td>49</td>
</tr>
<tr>
<td>2017-0500</td>
<td>Health Solutions: Promoting Interdisciplinary Thinking</td>
<td>PE. Shuler, Fort Lewis College, Durango CO</td>
<td>99</td>
</tr>
<tr>
<td>2018-0002</td>
<td>A Decade Review of an Agricultural Residential College</td>
<td>M. E. Betsy Garrison, Kristin S. Stair, Michael Kaller, and Robert V. Rohli, University of Arkansas</td>
<td>107</td>
</tr>
<tr>
<td>2018-0501</td>
<td>Evaluation of Undergraduate Student Critical Thinking in Animal and Food Sciences</td>
<td>Cassandra Jones and Gaea Hock, Kansas State University</td>
<td>87</td>
</tr>
<tr>
<td>2018-0003</td>
<td>Integration and Success of Study Abroad Program for Animal-Related Majors at UC Davis</td>
<td>Kathryn A. Jackson, UC Davis</td>
<td>41</td>
</tr>
<tr>
<td>2018-0004</td>
<td>The Food Literacy of College Students</td>
<td>Betsy Garrison and Leslie Edgar, University of Arkansas</td>
<td>105</td>
</tr>
<tr>
<td>2018-0006</td>
<td>How Do Antibiotics Actually Work? A Combined Wet-Lab and In-Silico Activity</td>
<td>Tahl Zimmerman, North Carolina A &amp; T State University</td>
<td>103</td>
</tr>
<tr>
<td>2018-0007</td>
<td>Yogurt as the Bridge Between Biochemistry, Microbiology, and Food Science</td>
<td>Tahl Zimmerman, North Carolina A &amp; T State University</td>
<td>101</td>
</tr>
<tr>
<td>2018-0128</td>
<td>Advancing Your Market Project</td>
<td>Wendy Becker, Josie Evenson, Dustin K. Perry, and Carl G. Igo, Montana State University</td>
<td>72</td>
</tr>
<tr>
<td>2018-0014</td>
<td>A Team Approach: Pairing up with Industry to offer Effective Professional Development</td>
<td>Dustin K. Perry and Shannon K. Arnold, Montana State University</td>
<td>92</td>
</tr>
<tr>
<td>2018-0018</td>
<td>Do Student Goals, Motivation, and Confidence Predict Exam Scores?</td>
<td>Catherine W. Shoulders, Rob N. Wiedenmann, and Donald M. Johnson, University of Arkansas</td>
<td>29</td>
</tr>
<tr>
<td>2018-0020</td>
<td>Exploring the Influence of Course Elements on Students’ Approaches to Learning</td>
<td>Debra S. Korte and Shelly J. Schmidt, University of Illinois at Urbana-Champaign</td>
<td>31</td>
</tr>
<tr>
<td>2018-0021</td>
<td>Assessment of a Learning Community in Agribusiness Education</td>
<td>Michael Gunderson and Ryan Musselman, Purdue University</td>
<td>9</td>
</tr>
<tr>
<td>2018-0022</td>
<td>Student Perceptions of an Ireland Study Abroad Experience</td>
<td>Mikaela L. Hermstedt, John Ewing, Tracy Hoover, and Dennis R. Decoteau, Penn State University</td>
<td>43</td>
</tr>
<tr>
<td>2018-0025</td>
<td>Kansas Youth Dream Careers as They Relate to State Workforce Needs</td>
<td>Dana J. Ladner, Russell Plaschka, Kerry Wefald, and Caitlyn Maloney, Kansas Department of Agriculture</td>
<td>90</td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>TITLE</td>
<td>AUTHOR/AFFILIATIONS</td>
<td>POSTER #</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
</tbody>
</table>
| 2018-0026  | Waterfowl and Watercolors: Enhancing Undergraduate Students’ Waterfowl Identification Skills | Adam A. Ahlers  
*Kansas State University* | 94       |
| 2018-0028  | NACTA Teaching Tips Promote Participatory Learning                   | Charles Francis, Jeremy Hummel, Geir Lieblein, Tor Arvid Brelan, Anna Marie Nicolaysen, Suzanne Morse, Mary Wiedenhoeft, Robert Dehaan, Paul Porter, and Lennart Salomonsson  
*University of Nebraska - Lincoln* | 85       |
| 2018-0032  | Scholarship Interviews: Worthless, or Worth It?                      | Jason Emmert, Debra Korte, and Prasanta Kalita  
*University of Illinois* | 61       |
*Purdue University* | 55       |
| 2018-0042  | An Immersive Recruitment Event for Agricultural Degree Programs      | Hailey R. Gates and Catherine W. Shoulders  
*University of Arkansas* | 27       |
| 2018-0047  | Hands-On Activities for Teaching Turf and Landscape Irrigation      | Donald M. Johnson  
*University of Arkansas* | 97       |
| 2018-0049  | Experiences of Undergraduate Animal Science Researchers: A Preliminary Investigation | Ben Weikert, Leigha LaTourette, and Makayla Fowler  
*SUNY Cobleskill* | 78       |
| 2018-0050  | Innovations for Agriculture: Prototyping Solutions to Sustainability Challenges | Sam E. Wortman and David Lambe  
*University of Nebraska - Lincoln* | 17       |
| 2018-0051  | Developing a Holistic Framework for Learning Outcomes Assessment in Plant Propagation | Sam E. Wortman and Martha Mamo  
*University of Nebraska - Lincoln* | 19       |
| 2018-0055  | Science Integration and Inquiry-Based Learning in Agriscience Teacher Preparation | Nathan W. Conner, Christine G. Cooper, Katelynn Ness, Jamie Loizzo, and Christopher T. Stripling  
*University of Nebraska-Lincoln* | 4        |
*Sam Houston State University* | 57       |
| 2018-0066  | Evaluation of Student Performance Based on Instructional Technology: PowerPoint v. Traditional Chalkboard | Aditi Angirasa, Douglas Morrish, and Isaac Sitienei  
*Texas State University* | 83       |
*Stephen F. Austin State University* | 74       |
| 2018-0074  | Agripharmatech Program Certificates: Transfer and Workforce Pathways from High School to Associate and Bachelor’s Degrees | Ingelia White, Hongwei Li, Teena Michael, and Charlene Akina  
*Windward Community College* | 88       |
| 2018-0076  | Tarleton State University Graduate Students’ Perceptions of Genetically Modified Organisms | Taylor Nichols, Sandy Graham, Wayne Atchley, and Chandra Andrew  
*Tarleton State University* | 52       |
<p>| POSTER SESSION 2: FRIDAY 10:15AM |
|-------------------------------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|
| ABSTRACT | TITLE | AUTHOR/AFFILIATIONS | POSTER # |
| 2018-0077 | How Using Scenarios Can Create a Dynamic Learning Environment | Nicole Stedman, Amy Harder, Grady Roberts, Lisa Lundy, Robert Strong, Kim Dooley, Jimmy Lindner, and Christopher Stripling University of Florida | 69 |
| 2018-0080 | Using Pre- and Post-Course Assessments to Evaluate Student Learning in Animal Welfare Assessment Courses | Carly I. O'Malley and Janice M. Siegfried Michigan State University | 21 |
| 2018-0082 | Everything but the Kitchen Sink: Teaching Urban Ecosystem Services without Lectures | Michael L. Mashtare Jr. Purdue University | 82 |
| 2018-0083 | Snap to the Future: Developing Career-Ready Skills in Entry-Level Employees | Shannon Norris and Tracy Rutherford Texas A&amp;M University | 8 |
| 2018-0085 | Nurturing Engagement: Conducting Formative Assessments of Student Learning with Plickers | Gaea Hock, Courtney Meyers, and Jeremy Falk Kansas State University | 23 |
| 2018-0089 | Flipping Apparel Construction Class Inside Out | Devona L. Dixon, North Carolina A&amp;T State University | 102 |
| 2018-0091 | From the Field to the Forest: Engaging Students in a Discussion about Soils | Michael L. Mashtare Jr. and John G. Gravel Purdue University | 80 |
| 2018-0092 | Supplementing Official Course Evaluations | Quisto Settle and T.J. Bradford University of Florida | 25 |
| 2018-0093 | Applying Cognitive Task Analysis to Professional Horse Judging Practices | Paige Arehart, Kathryn Orvis, Colleen Brady, and Sean Brophy Purdue University | 67 |
| 2018-0101 | A Novel Approach for Student Debates on Controversial Topics in Agriculture | J.L. Ghezzi Ball State University | 65 |
| 2018-0103 | A Longitudinal Analysis of Recruitment Trends Following University Summer Programs in Agriculture for High School Scholars | Will Bird and Joey Mehlhorn University of Tennessee at Martin | 39 |
| 2018-0106 | Does It Matter Where You Come From?: A Qualitative Comparison of Effects on Tennessee Governor's School for the Agricultural Sciences Participants of Varying Demographic Backgrounds | William Singer, Will Bird, and Joey Mehlhorn University of Tennessee at Martin | 37 |
| 2018-0107 | Assessing Professional Development Needs: Improving Teaching and Learning in Agricultural Education | Laura Rice, John Ewing, and Daniel Foster University of Kentucky | 2 |
| 2018-0110 | Secondary Agricultural Teacher Preparation in U.S. Higher Education: Historical Perspectives on Capacity and Production | Daniel Foster, Rebecca Lawyer, and Amy Smith Penn State University | 14 |</p>
<table>
<thead>
<tr>
<th>ABSTRACT</th>
<th>TITLE</th>
<th>AUTHOR/AFFILIATIONS</th>
<th>POSTER #</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-0111</td>
<td>Revisiting a Project: #TeachAgChat's Growth Since 2015</td>
<td>George Dietrich and Daniel Foster &lt;br&gt; <em>Penn State University</em></td>
<td>15</td>
</tr>
<tr>
<td>2018-0113</td>
<td>#TeachAgTalks: Fighting Email Deluge with Podcasts</td>
<td>Hunter Kaufman and Daniel Foster &lt;br&gt; <em>Penn State University</em></td>
<td>16</td>
</tr>
<tr>
<td>2018-0115</td>
<td>Exploring the Applicability of Academic Advising through a Lens of Leadership &amp; Mindset</td>
<td>Jason Headrick and Hannah Sunderman &lt;br&gt; <em>University of Nebraska-Lincoln</em></td>
<td>96</td>
</tr>
<tr>
<td>2018-0118</td>
<td>Agricultural Students’ Perceptions of Being Taught with Curriculum for Agricultural Science and Education (CASE)</td>
<td>Scott Smalley and Kelsey Sands, &lt;br&gt; <em>Iowa State University</em></td>
<td>13</td>
</tr>
<tr>
<td>2018-0120</td>
<td>State Wide Self-Assessment of General Program Standards for Agricultural Education</td>
<td>Kelsey Sands, Adam Sacquitne, Scott Smalley and Michael Retallick, &lt;br&gt; <em>Iowa State University</em></td>
<td>11</td>
</tr>
<tr>
<td>2018-0124</td>
<td>Integrating Service Learning into the Agriculture Classroom</td>
<td>Stephen Edwards, Heather Glennon, and Sandra Maddox &lt;br&gt; <em>University of Mount Olive</em></td>
<td>45</td>
</tr>
<tr>
<td>2018-0131</td>
<td>Strategies to Developing Graduate Student Career Preparation for the Academy and Beyond</td>
<td>Torrie A. Cropps, Brandon C. Allen, Quintana M. Clark, and Levon T. Esters &lt;br&gt; <em>Purdue University</em></td>
<td>6</td>
</tr>
</tbody>
</table>

---

**NACTA 2019**

**NACTA**

Connecting to STEM

College of Southern Idaho - June 18-21, 2019
MAPS

SCHEMAN BUILDING, REIMAN GARDENS, AND GATEWAY HOTEL & CONFERENCE CENTER

SCHEMAN BUILDING AND DUBLIN BAY IRISH PUB & GRILL
MAPS

SCHEMAN BUILDING: EXTERIOR PARKING

KEY:
- AVAILABLE PARKING
- CONSTRUCTION (LIMITED/NO ACCESS)
- ✰ SHUTTLES
- ☢️ ACCESS POINTS TO NORTH PARKING LOT
- 🚍 CAN ONLY ACCESS FROM THE EAST

TO UNIVERSITY BLVD HOTELS
REIMAN GARDENS: ENTRANCE AND PARKING

TURN INTO THE JACK TRICE STADIUM PARKING LOT ADJACENT TO S. 16TH ST.
UNIVERSITY BOULEVARD HOTELS

GATEWAY HOTEL & CONFERENCE CENTER
Tuesday, June 12, 2018
Noon - 4:00pm  NACTA Executive Committee Meeting, Boardroom 080
Noon - 7:00pm  Registration, Scheman First Floor Lobby
6:00 - 6:30pm  Welcome Reception for First Time Attendees, Scheman Outdoor Plaza
6:30 - 8:30pm  Welcome Reception for Everyone, Scheman Outdoor Plaza

Wednesday, June 13, 2018
7:00 - 8:00am  Breakfast, 220-240
8:30 - 10:00am  Welcome and Keynote Speaker, Benton Auditorium
10:15am - 12:00pm  Poster Session 1, Second Floor Lobby
12:00 - 1:00pm  Lunch, 220-240
1:00 - 2:30pm  Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
2:30 - 3:00pm  Break, First Floor Lobby
3:00 - 4:30pm  Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
5:30 - 6:15pm  Iowa State University Alumni Reception, Reiman Gardens
6:15 - 9:15pm  Dinner at Reiman Gardens

Thursday, June 14, 2018
7:00 - 8:30am  Breakfast, 220-240
7:30 - 8:30am  Committee Meetings, 250-252, 260-262, 275
8:45 - 10:00am  Oral Presentations, 150-154, 175-179, 250-252, 260-262, 275
10:00 - 10:15am  Midmorning Break, First Floor Lobby
10:15am - 12:00pm  Workshops, 150-154, 175-179, 250-252, 260-262, 275, 299
11:45am - 12:30pm  Boxed Lunch, First Floor Lobby
12:15 - 12:30pm  Tour Departure, Lot F, Between CY Stephens and Fisher
5:30pm  Dinner on Your Own
6:00 - 8:00pm  Graduate Student Reception, Dublin Bay Irish Pub & Grill

Friday, June 15, 2018
7:00 - 8:30am  Breakfast, 220-240
7:30 - 8:30am  Committee Meetings, 175-179, 250-252, 260-262, 275
9:00 - 10:00am  Blue Ribbon Presentation, Benton Auditorium
10:15am - 12:00pm  Poster Session 2, Second Floor Lobby
12:00 - 1:45pm  Lunch & Business Meeting, 220-240
2:00 - 4:15pm  Oral Presentations, 175-179, 250-252, 260-262, 275
5:30 - 6:30pm  Social Hour, Gateway Hotel and Conference Center, Prairie Ballroom
6:30 - 8:30pm  Awards Banquet & Closing Ceremony, Gateway Hotel and Conference Center, Prairie Ballroom

Saturday, June 16, 2018
9:00am - 12:00pm  NACTA Executive Committee Meeting, Boardroom 080