

Research Session A – Technology Applications

Chair: Ryan Anderson, Virginia Tech

Discussant: David Doerfert, Texas Tech University

Facilitators: Shane Robinson, University of Missouri & Jonathan Velez, The Ohio State University

[Impacts of an Audience Response System on Student Achievement in High School Agriscience Courses](#) – John W. Conoley, East Carolina University; D. Barry Croom, Gary E. Moore & James L. Flowers, North Carolina State University

[Preservice-Teachers' Knowledge and Teaching Comfort Levels for Applied Agricultural Science and Technology Area Objectives](#) – Shannon H. Degenhart, Texas A&M University; Tim Pannkuk, San Houston State University; Judith White, Jenna Smith & Gary J. Wingenbach, Texas A&M University

[Differences in Agricultural Science Teachers' Knowledge and Attitudes of Biotechnology: A Case Study](#) – Diana Mowen, T. Grady Roberts, Gary J. Wingenbach & Julie F. Harlin, Texas A&M University

[Barriers, Roles, and Information Source Preferences of Agricultural Science Teachers for Teaching Biotechnology: A Case Study](#) - Diana L. Mowen, T. Grady Roberts, Gary J. Wingenbach & Julie F. Harlin, Texas A&M University

Research Session B – Curriculum Integration

Chair: Dennis Duncan, University of Georgia

Discussant: Kirby Barrick, University of Florida

Facilitators: Brian Haines, Purdue University & Julie Murphy, University of Kentucky

[Mathematics Enhancement in Horticulture Curriculum: An Exploratory Examination of Teacher Concerns During Initial Implementation](#) – Daniel J. Jansen, Larry G. Enochs & Gregory W. Thompson, Oregon State University

[Advanced Life Sciences: Student Perceptions of a College Preparatory Curriculum Taught Through Agricultural Education](#) – Alexandria I. Huerta & Mark A. Balschweid, Purdue University

[Does Curriculum Integration Intervention to Improve the Mathematics Achievement of Students Diminish Their Acquisition of Technical Competence? An Experimental Study](#)

[in Agricultural Mechanics](#) –Brian Parr, Murray State University; M. Craig Edwards & James G. Leising, Oklahoma State University

[Selected Effects of a Curriculum Integration Intervention on the Mathematics Performance of Secondary Students Enrolled in an Agricultural Power and Technology Course: An Experimental Study](#) - Brian Parr, Murray State University ; M. Craig Edwards & James G. Leising, Oklahoma State University

Research Session C – Critical Thinking and Problem Solving

Chair: Levon Esters, Iowa State University

Discussant: Glenn Shinn, Texas A&M University

Facilitators: Christine Bowles, University of Kentucky & Kayla Marshall , Mississippi State University

[Influence of Overtly Teaching for Critical Thinking on Critical Thinking Skills of Undergraduates in a College of Agriculture](#) – Curt Friedel, Tracy Irani, Rick Rudd, Maria Gallo, & Erin Eckhardt, University of Florida

[Type, Number, and Cognitive Level of Academic Challenges Provided by Professors](#) – John C. Ewing, Amber Carnes, & M. Susie Whittington, The Ohio State University

[An Examination of the Outcomes of a Problem-Based Learning Course in Natural Resources and Environmental Sciences on College Students' Levels of Reflective Thinking](#) – Anna L. Ball, Mike Martin & Anton Endress, University of Illinois

[Problem-Based Learning in Secondary Agriculture Classrooms: Effect of Critical Thinking and Content Knowledge](#) – Scott Burris, Texas Tech University and Bryan L. Garton, University of Missouri

Research Session D – Preservice Teacher Education

Chair: Susan Camp, State University of New York (Oswego)

Discussant: James Flowers, North Carolina State University

Facilitators: Adam Sconyers, Mississippi State University & Steve Harbstreet, Kansas State University

[Predicting Preservice Agriculture Teachers Intentions to Teach](#) – Steven J. Rocca, California State University , Fresno & Shannon G. Washburn, University of Florida

[Preservice Agriculture Teachers Perceptions of Career Barriers and Support](#) - Steven J. Rocca, California State University, Fresno & Shannon G. Washburn, University of Florida

[Similarity, Satisfaction, and Personality Type as Factors in Matching Student Teachers with Cooperating Teachers](#) – Tracy Kitchel, University of Kentucky & Robert M. Torres, University of Missouri

[Is Personality Type Influential of the Extent Cooperating Teachers Provide Psychosocial Assistance to Student Teachers](#) - Tracy Kitchel, University of Kentucky & Robert M. Torres, University of Missouri

Research Session E – Higher Education Issues

Chair: Jerry Peters, Purdue University

Discussant: Robert Martin, Iowa State University

Facilitators: Marshall Swafford, Virginia Tech & Clark Harris, Kansas State University

[Teacher Induction Programs in Agricultural Education – Description of the Role of AAEE Higher Education Teacher Preparation Programs](#) – Edward A. Franklin & Quint Molina, University of Arizona

[Research Capacity in Agricultural Education](#) – Brian E. Myers & Edward W. Osborne, University of Florida

[Changing the Way Things Are Done, Will Distance Education Lead Higher Education Into Adopting Business World Practices](#) – Paula M. Teig & W. Wade Miller, Iowa State University

[The Role of Critiqued Reflection in Improving the Perceived Leadership Competencies of Undergraduates During a Ten Week Professional Internship](#) – Nicole P. Stedman, Tracy A. Rutherford, & T. Grady Roberts, Texas A&M University

Research Session F – Elementary and Middle School Programs

Chair: Greg Thompson, Oregon State University

Discussant: Barbara Kirby, North Carolina State University

Facilitators: Karen Fritz, Texas Tech University & Beth Wilson, North Carolina State University

[Interactive Agricultural Experiences of 4 th Grade Students in the Arid Southwest: An Examination of the Impact of Hands-on Learning Experiences as a Component of Agriculture in the Classroom Curriculum](#) – Rodney B. Glassman, Jack Elliot, & James Knight, University of Arizona

[Middle School Students' Attitudes Toward Pursuing Careers in Science, Technology, Engineering, and Math](#) – Shannon H. Degenhart, Gary J. Wingenbach, Kim E. Dooley, James r. Lindner, Diana L. Mowen & Larry Johnson, Texas A&M University

[Analysis and Evaluation of the Animal Biosecurity Education Program for Youth](#) – Andrea Gregory-Kreps, Purdue University

[Analysis and Evaluation of the Animal Biosecurity Education Program for Youth: A Look at Attitudes](#) - Andrea Gregory-Kreps, Purdue University

Research Session G – Special Needs

Chair: Matt Spindler, State University of New York (Oswego)

Discussant: Randol Waters, University of Tennessee

Facilitators: Moriah Jennings , Texas Tech University & John Cannon, Virginia Tech

[Strategies Employed by North Carolina Agriculture Teachers in Serving Students with Mild to Moderate Learning Abilities](#) – Jennifer Richardson, North Mecklenburg (NC) HS & Shannon G. Washburn, University of Florida

[Student Teachers' Confidence in Teaching Special Needs Students in Agricultural Education Classrooms and Laboratories](#) – John Kessell, Western Kentucky University; Gary J. Wingenbach, Texas A&M University; Hansel Burley, David Lawver, Steven Frazee & Chad Davis, Texas Tech University

[Relationships Between Special Education Confidence, Knowledge, and Selected Demographics](#) - John Kessell, Western Kentucky University; Gary J. Wingenbach, Texas A&M University; Hansel Burley, David Lawver, Steven Frazee & Chad Davis, Texas Tech University

[Student Teachers' Knowledge of the Individuals with Disabilities Education Act](#) - John Kessell, Western Kentucky University; Gary J. Wingenbach, Texas A&M University; Hansel Burley, David Lawver, Steven Frazee & Chad Davis, Texas Tech University

Research Session H – Field Experiences

Chair: Brian Warnick, Utah State University

Discussant: Gary Briers, Texas A&M University

Facilitators: Lacy Quebe, Texas Tech University & Amy Rae Mounce, University of Missouri

[A Model for Implementing Early Field Experiences in Teacher Education](#) – Michael S. Retallick & Greg Miller, Iowa State University

[Documents Used in Early Field Experiences in Agricultural Education](#) - Michael S. Retallick & Greg Miller, Iowa State University

[An Assessment of Teaching Interns' Level of Proficiency on State Standards Prior to and at the Completion of the Teaching Internship](#) – Jacqueline L. Campbell, Northwest Missouri Technical School; Bryan L. Garton & J. Shane Robinson, University of Missouri

[Total Program Efficacy: A Comparison of Traditionally and Alternatively Certified Agriculture Teachers](#) – Dennis W. Duncan & John C. Ricketts, University of Georgia

Research Session I – Minority Issues

Chair: Donna Graham, University of Arkansas

Discussant: Marcus Comer, North Carolina A&T University

Facilitators: John Ewing, The Ohio State University & Paula Faulkner, Penn State University

[Recruitment and Retention Strategies Utilized by 1890 Land Grant Institutions in Relation to African American Students](#) – Antoine Alston & Johnnie Westbrook, North Carolina A&T University

[Assessment of Minorities in Agriculture, Natural Resources, and Related Sciences Members' Leadership Skills and Professional Development](#) – Marney Dorsey, Patreese Ingram, & Rama Radhakrishna, The Pennsylvania State University

[Issues Facing Urban Agriscience Teachers: A Delphi Study](#) – Wendy Warner & Shannon G. Washburn, University of Florida

[Social Barriers Perceived by Female Small-Scale Agricultural Producers](#) – Elizabeth Maeda, George Wardlow, & Jefferson Miller, University of Arkansas

Research Session J – Leadership

Chair: Barry Boyd, Texas A&M University

Discussant: Tracy Hoover, Penn State University

Facilitators: Reynold Gardner , Oregon State University & Curt Friedel, University of Florida

[Developing Leadership Skills in Agricultural Education: A Synthesis of Literature](#) – Kara S. Butters & Anna L. Ball, University of Illinois

[The Relationship Between Participation in Community Service Learning Projects and Life Skills Development in 4-H Leadership Activities](#) – Connie Phelps, University of Arkansas & Joe Kotrlik, Louisiana State University

[Agricultural Education Students' Attitudes About and Barriers to Participation in Leadership Activities](#) – James Connors, The Ohio State University & Benjamin Swan, Cal Poly – San Louis Obispo

[An Examination of Selected Life Skill Development for Louisiana 4-H Club Officers](#) – Mark G. Tassin, LSU AgCenter; Chadwick C. Higgins, LSU AgCenter; Joe W. Kotrlik, Louisiana State University & Janet E. Fox, LSU AgCenter

Research Session K – Career Choice

Chair: Rusty Miller, Virginia Tech

Discussant: Gary Jackson, Mississippi State University

Facilitators: Christopher Stripling, University of Georgia & Adam Sconyers, Mississippi State University

[Impacts and Benefits of a College Wide Learning and Work Experience Program](#) – Charles R. Steiner & Michael S. Retallick , Iowa State University

[Non-Technical Skills and Traits Needed to be Career Ready Graduates as Perceived by Agribusiness Employers and Recruiters](#) – Thomas Brand, Stacy Gartin, Harry Boone, & Deborah Boone, West Virginia University

[Tracking Agricultural Education Graduates' Career Choice, Job Satisfaction, and Employability Skills](#) – Bryan L. Garton & J. Shane Robinson, University of Missouri

[Career Choices and Career Experiences Among Women in Secondary Agricultural Education](#) – Kathleen D. Kelsey, Oklahoma State University

Research Session L – Beginning Agriculture Teachers

Chair: Travis Park, Cornell University

Discussant: Grady Roberts, Texas A&M University

Facilitators: Mike Martin, University of Illinois & Kayla Marshall , Mississippi State University

[Inservice Needs of Beginning Agriculture Teachers](#) – Shannon G. Washburn & James E. Dyer, University of Florida

[Relationships of Teachers and Program Variables to Beginning Agriculture Teachers' Sense of Efficacy](#) – Jennifer Wheeler & Neil A. Knobloch, University of Illinois

[Experiences of the First Year of Teaching Secondary Agricultural Education: A Report of a National Study](#) – Brian K. Warnick, Utah State University; Gregory S. Thompson, Oregon State University & Rudy S. Tarpley, Utah State University

[Perceptions of Beginning Teachers: A Comparison of Two Formal Mentoring Arrangements](#) – Bradley Greiman, University of Minnesota; Robert Torres, University of Missouri; Scott Burris, Texas Tech University; & Tracy Kitchel, University of Kentucky

