



## Research Program

### Session Chairs:

Jacque Deeds

Kirk Swortzel

Mississippi State University

Omni Hotel and Conference Center

Charlotte, NC

May 18-19, 2006

### Concurrent Research Session I

Thursday, May 18, 2006

10:15 a.m. – 11:45 a.m.

#### Research Session A. Technology Applications Juniper Room

**Chair:** Ryan Anderson, Virginia Tech

**Discussant:** David Doerfert, Texas Tech University

**Facilitators:** Shane Robinson, University of Missouri &

Jonathan Velez, The Ohio State University

- *The Use of Audience Response Systems to Improve 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 Poplar Room

**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 Pine Room

**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 Magnolia Room

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

**Discussant:** James Flowers, North Carolina State University

**Facilitators:** Adam Sconyers, Mississippi State University & Steve Harbstreit, 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

### Concurrent Research Sessions II

Friday, May 19, 2006

9:15 a.m. – 10:45 a.m.

#### Research Session E. Higher Education Issues, Juniper Room

**Chair:** Shannon Degenhart – Texas A&M 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,  
Poplar Room**

**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<sup>th</sup> 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  
Pine Room**

**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  
Magnolia Room**

**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 Alternately Certified Agriculture Teachers.* Dennis W. Duncan & John C. Ricketts, University of Georgia

**Concurrent Research Sessions III  
Friday, May 19, 2006  
3:30 p.m. – 5:00 p.m.**

**Research Session I. Minority Issues,  
Juniper Room**

**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  
Poplar Room**

**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 Kotrlík, 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. Kotrlík, Louisiana State University & Janet E. Fox, LSU AgCenter

**Research Session K. Career Choice  
Pine Room**

**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  
Magnolia Room**

**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