



**Proceedings -28th Annual
National Agricultural Education
Research Conference**

Volume XXVIII

**Co-Chair & Co-Editor: Joe W. Kotrlik, Louisiana State University
Co-Chair & Co-Editor: Michael F. Burnett, Louisiana State University**

December 12, 2001, The New Orleans Marriot Hotel

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Registration:	7:00 - 10:30 a.m. - Room: Balcony I, J
Continental Breakfast:	7:00 - 8:00 a.m. - Room: Balcony I, J
Newcomers Gathering:	7:30 - 8:00 a.m. - Room: Balcony K





Opening General Session - Room: Balcony L, N - 8:00-8:25a.m.

Theme:	Orientation to NAERC 2001
Co-Chairs:	Joe W. Kotrlik, Louisiana State University Michael F. Burnett, Louisiana State University
Facilitators:	Mark Balschweid, Purdue University Neil Knobloch, The Ohio State University

Concurrent Session A - 8:30-10:00a.m. - Bonaparte Room

Theme:	College of Agriculture Issues
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Chair: Billye Foster, University of Arizona
Discussion Leader: Rick Rudd, University of Florida
Facilitator: Marty Frick, Montana State University
Paul Theriot, Louisiana State University

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-  **Analysis of the Relationships Between Computer Experiences, Self-Efficacy, and Knowledge of Undergraduate Students Entering a Land-Grant College of Agriculture** - Donald M. Johnson, Melissa L. Lester, James A. Ferguson, University of Arkansas (pp. 1-13)
 -  **Learning Communities and Agricultural Youth Organizations: Their Influence on College Agriculture Students' Academic Performance and Retention** - Anna L. Ball, Bryan L. Garton, University of Missouri; James E. Dyer, University of Florida (pp. 14-23)
 -  **Utilizing Professional Development to Ensure International Assignment Impact** - Nick T. Place, Steven G. Jacob, Mary P. Andrews, Nancy E. Crago, University of Florida (pp. 24-35)
 -  **What Stakeholders Want From the Land-Grant University: A Case Study of the Oklahoma State University Forestry Department** - Kathleen D. Kelsey, Seburn L. Pense, Oklahoma State University (pp. 36-45)

Concurrent Session B - 8:30-10:00a.m. - Bacchus Room

Theme: Youth Organizations
Chair: Andrew Baker, Western Illinois University
Discussion Leader: Lance Kieth, Texas Tech University
Facilitators: Kyle McGregor, Texas Tech University

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-  **A Historical Narrative on the Impact of the New Farmers of America (NFA) on Selected Past Members** - Dexter B. Wakefield, Southern Illinois University; B. Allen Talbert, Purdue University (pp. 46-58)
 -  **Engaging Students in the Agricultural Education Model: Factors Affecting Student Participation in the National FFA Organization** - B. Allen Talbert, Mark A. Balschweid, Purdue University (pp. 59-71)
 -  **Finding and Keeping Members: Perspectives of FFA Members and Non-Members on the Effectiveness of FFA Programs and Services** - Barry Croom, James L. Flowers, North Carolina State University (pp. 72-84)
 -  **Value of Adult Volunteer Leaders in the New Mexico 4-H Program** - Julie K. Hutchins, Valencia County Cooperative Extension; Brenda SeEVERS, Dawn Van Leeuwen, New Mexico State University (pp. 85-95)
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Concurrent Session C - 8:30-10:00 a.m. - Regent Room

Theme: Preservice Teacher Education
Chair: Richard Joerger, University of Minnesota
Discussion Leader: Robert Martin, Iowa State University
Facilitator: Van Shelhamer, Montana State University
Penny Haase-Wittler, University of Missouri

-  [A Comparison of Student Teachers' Perceptions of Important Elements of the Student Teaching Experience Before and After Completing an 11-Week Field Experience](#) - Julie F. Harlin, Texas A&M University; M. Craig Edwards, University of Georgia; Gary E. Briers, Texas A&M University (pp. 96-108)
 -  [Characteristics of Preservice Teacher Education Programs in Agricultural Education in the United States](#) - James J. Connors, The Ohio State University; John P. Mundt, University of Idaho, Boise Center (pp. 109-118)
 -  [The Influence of Peer Teaching and Early Field Experience on Teaching Efficacy Beliefs of Preservice Educators in Agriculture](#) - Neil A. Knobloch, The Ohio State University (pp. 119-131)
 -  [The Use of Teacher Certification Measures in Predicting Secondary Agriculture Instructors' Teaching Performance](#) - James C. Graham, University of Wisconsin-River Falls; Bryan L. Garton, University of Missouri (pp. 132-143)
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Concurrent Session D - 8:30-10:00a.m. - Iberville 1 Room

Theme: E-Learning
Chair: Greg Miller, Iowa State University
Discussion Leader: Jacqueline Deeds, Mississippi State University
Facilitator: Wayne Fanno, Oregon State University
Brad Greiman, University of Missouri

-  [A Five-Year Longitudinal Examination of Faculty Needs Associated with Agricultural Distance Education](#) - Tim H. Murphy, Kim E. Dooley, Texas A&M University (pp. 144-157)
 -  [An Analysis of the Perceived Benefits and Affordances of Course Websites by Agricultural Students and Faculty Members](#) - Tim H. Murphy, Texas A&M University (pp. 158-170)
 -  [Competencies for the Distance Education Professional: A Self-Assessment Model to Document Learning](#) - Kim E. Dooley, James R. Lindner, Texas A&M University (pp. 171-182)
 -  [Impact of an Asynchronous Activity on Academic Achievement of Abstract Leadership Concepts](#) - Barry L. Boyd, Theresa Pesi Murphrey, James F. Rogers, Texas A&M University (pp. 183-194)
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Concurrent Session E - 10:30-12:00a.m. - Bonaparte Room

Theme: Research Methods & Design
Chair: Jim Flowers, North Carolina State University
Discussion Leader: Connie Baggett, The Pennsylvania State University
Facilitator: Kristina Boone, Kansas State University
Elizabeth Wilson, North Carolina State University

-  [Factors Associated with Research Productivity of Agricultural Education Faculty](#) - Joe W. Kotrlik, Louisiana State University; James Bartlett, II, University of Illinois, Urbana-Champaign; Chadwick Higgins, Idaho State University, Pocatello; Heather Williams, University of New Orleans (pp. 195-206)
 -  [Statistical Significance Tests and Effect Magnitude Measures Within Quantitative Research Manuscripts Published in the Journal of Agricultural Education During 1996-2000](#) - Matthew T. Portillo, Oklahoma State University (pp. 207-218)
 -  [Structuring Agricultural Education Research Using Conceptual and Theoretical Frameworks](#) - James E. Dyer, University of Florida; Penny S. Haase Wittler, Shannon Washburn, University of Missouri (pp. 219-232)
 -  [The Handling of Nonresponse in Agricultural Education](#) - James R. Lindner, Tim H. Murphy, Gary E. Briers, Texas A&M University (pp. 233-245)
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Concurrent Session F - 10:30-12:00a.m. - Bacchus Room

Theme: Curriculum Issues
Chair: Steven Harbstreit, Kansas State University
Discussion Leader: Carol Conroy, Cornell University
Facilitator: Chad Aucoin, Louisiana State University
Chad Davis, Texas Tech University

-  [Agricultural Education Competencies and Progress Towards a Doctoral Degree](#) - James R. Lindner, Kim E. Dooley, Texas A&M University (pp. 246-258)
 -  [An Assessment of Student Agricultural Literacy Knowledge Based on the Food and Fiber Systems Literacy Framework](#) - James G. Leising, Oklahoma State University¹; Seburn L. Pense, Southwest Texas State University; Carl Igo, Oklahoma State University (pp. 259-268)
 -  [Are We Preparing the Society Ready Graduate?](#) - Donna L. Graham, University of Arkansas (pp. 269-281)
 -  [High School Agricultural Communications Competencies: A National Delphi Study](#) - Cindy Akers, Texas Tech University; Paul Vaughn, University of Missouri; Jacqui D. Lockaby, Texas Tech University (pp. 282-294)
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Concurrent Session G - 10:30-12:00a.m. - Regent Room

Theme: Administration/Supervision Issues
Chair: Jerry Peters, Purdue University
Discussion Leader: Rob Terry, Oklahoma State University
Facilitator: Dave Howell, University of New Hampshire
Weston Dale Walker, University of Missouri

-  [An Examination of Texas Agricultural Education Safety Program Procedures](#) - Doug R. Ullrich, Sam Houston State University; Daniel J. Hubert, Utah State University; James R. Lindner, Texas A&M University; Tim H. Murphy, Texas A&M University; J. Torey Nalbene, Sam Houston State University (pp. 295-307)
-  [Desktop Videoconferencing: An Effective tool for Communication and Instructional Supervision](#) - John Kessell, Greg Miller, Iowa State University (pp. 308-319)
-  [Escalation Model for Instructional Supervisors in Agricultural Education](#) - Carrie Fritz, Greg Miller, Iowa State University (pp. 320-332)
-  [Job Satisfaction of Civil Service and Administrative and Professional Staff in a College of Food, Agricultural and Environmental Sciences](#) - Rosemary R. Gliem, Joseph A. Gliem, The Ohio State University (pp. 333-346)
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Concurrent Session H - 10:30-12:00a.m. - Iberville 1 Room

Theme: Contemporary Issues in Agricultural Education
Chair: Nick Place, University of Florida
Discussion Leader: Lloyd Bell, University of Nebraska-Lincoln
Facilitator: Todd Brashears, Texas Tech University
Robin Peiter, Oklahoma State University

-  [Agricultural Education in An Elementary School: An Ethnographic Study of a School Garden](#) - Laurie Thorp, Christine Townsend, Texas A&M University (pp. 347-360)
-  [Teaching Biology Using Agriculture as the Context: Perceptions of High School Students](#) - Mark A. Balschweid, Purdue University (pp. 361-373)
-  [The Influence of Foundational and Expressed Values on Teacher Behavior](#) - Jacqui Lockaby, Matt Baker, Jon A. Hogg, Texas Tech University (pp. 374-383)
-  [Women in Agricultural Education: Who Are You?](#) - Billye Foster, The University of Arizona (pp. 384-395)
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Concurrent Session I - 1:30-3:00p.m. - Bonaparte Room





Theme: The Perspectives of High School Agricultural Science Teachers

Chair: Allen Talbert, Purdue University
Discussion Leader: Chris Townsend, Texas A&M University
Facilitator: Antoine Alston, North Carolina A&T University
Steve Fraze, Texas Tech University

-  **A Comparison of the Professional Development Needs of Kansas and Missouri Teachers of Agriculture** - Shannon G. Washburn, Brad O. King, Bryan L. Garton, University of Missouri; Steven R. Harbstreit, Kansas State University (pp. 396-408)
 -  **Agricultural Educators' Knowledge and Perception of Agricultural Biotechnology Curriculum** - Elizabeth Wilson, Barbara Kirby, James L. Flowers, North Carolina State University (pp. 409-421)
 -  **Integrating Science Into Agricultural Education: A Survey of South Carolina Teachers' Perceptions** - K. Dale Layfield, V. Christine Minor, Jerry A. Waldvogel, Clemson University (pp. 422-432)
 -  **Perceptions of Agricultural Education Teachers Toward Sustainable Agricultural Practices** - Maurice Udoto, James L. Flowers, North Carolina State University (pp. 433-444)
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Concurrent Session J - 1:30-3:00p.m. - Bacchus Room


Theme: View of Agricultural Education Among Stakeholder Groups
Chair: Al Mannebach, University of Connecticut
Discussion Leader: Gary Jackson, Mississippi State University
Facilitator: Randall Andreasen, Southwest Missouri State University
Anna Melodia, National FFA Organization

-  **Attitudes of Arkansas Daily Newspaper Editors Toward Agriculture** - D. Dwayne Cartmell II, Oklahoma State University; James E. Dyer, University of Florida; Robert J. Birkenholz, University of Missouri (pp. 445-458)
 -  **North Carolina Home School Providers' Perceptions of Agricultural Education** - R. Jason Walls, James L. Flowers, Gary E. Moore, North Carolina State University (pp. 459-470)
 -  **Perceptions and Perceived Knowledge Levels of Texas Public School Superintendents Regarding the Agricultural Science and Technology Program** - Dwayne Pavelock, Sam Houston State University; Paul Vaughn, University of Missouri; Lance Kieth, Texas Tech University (pp. 471-484)
 -  **Prospective Elementary Teachers' Understandings of Agricultural Technology and Its Effects on Culture and the Environment** - Cary J. Trexler, Deanna Meischen, Iowa State University (pp. 485-497)
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Concurrent Session K - 1:30-3:00p.m. - Regent Room




Theme: Adult Education
Chair: James Christiansen, Texas A&M University

Discussion Leader: Gary Leske, University of Minnesota
Facilitator: Marcus Comer, University of Missouri
David Lawver, Texas Tech University

-  Attrition Rate in a Swine Continuing Education Course Delivered Asynchronously - Leah E. Wickersham, Sul Ross State University; Kim E. Dooley, Texas A&M University (pp. 498-512)
 -  Identifying and Applying Learning Modes to Risk Management Education for Iowa Farmers - Scott Mickelsen, Larry D. Trede, Iowa State University (pp. 513-525)
 -  Philosophies of Adult Education as Practiced by Agricultural Education Teachers - Harry N. Boone, Jr., Stacy A. Gartin, Crystal R. Buckingham, Kerry S. Odell, Layle D. Lawrence, West Virginia University (pp. 526-538)
 -  Testing the Underlying Motives of Organizational Citizenship Behaviors: A Field Study of Agricultural Co-op Workers - John E. Barbuto, Jr., Lance L. Brown, Myra S. Wilhite, Daniel W. Wheeler, University of Nebraska (pp. 539-553)
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Concurrent Session L - 1:30-3:00p.m. - Iberville 1 Room

Theme: Teaching/Learning Research
Chair: Barry Boyd, Texas A&M University
Discussion Leader: Bill Camp, Virginia Tech University
Facilitator: Mark Kistler, Texas A&M University

-  A Problem-Oriented Approach to Teaching Agriscience Compared with Lecture and Study Questions: Effects on Achievement and Attitude of High School Students - Lee Smith, Mena Schools; George W. Wardlow, Donald M. Johnson, University of Arkansas (pp. 554-563)
 -  Don't Lecture Me! Motivating Agriculture Students to Learn - Kyle Mankin, Kristina Boone, Sandra Flores, Marvin Willyard, Kansas State University (pp. 564-575)
 -  Effects of Instructional Methodologies on Student Achievement, Attitude and Retention - Warren H. Hitz, Dennis C. Scanlon, The Pennsylvania State University (pp. 576-584)
 -  Strengths and Weaknesses of Peer Evaluation of Teaching in University of Florida's College of Agriculture and Life Sciences: A Five-Year Review - Rick D. Rudd, University of Florida; Matt Baker, Texas Tech University; Tracy Hoover, Noelle Connor, University of Florida (pp. 585-595)
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NAERC Closing General Session - 3:30-4:30p.m. - Balcony L, N

Theme: Research: Accomplishment, Opportunities, Challenges
Co-Chairs: Joe W. Kotrlik, Louisiana State University
Michael F. Burnett, Louisiana State University

Facilitator: Shannon Washburn, University of Missouri

Speaker: Jimmy G. Cheek, Dean, Academic Programs, Institute for Food and Agricultural Sciences, University of Florida

Poster Session - American Association for Agricultural Education

Poster Session Presentations
