2011 - 2012 **NACTA Officers**

President Jeannette Moore

North Carolina State University, Dept of Animal Science, Box 7621, Raleigh, NC 27695-7621, Ph: 919.515.4010, Fax: 919.515.8753 Email: jeannette_moore@ncsu.edu

Immediate Past President

Ph: 352.392.0502, Fax: 352.392.9585

President Elect Rick Rudd

Virginia Tech Dept of Ag & Ext Ed 268 Litton Reaves Hall, Blacksburg, VA 24061 Ph: 540.231.6836, Fax: 540.231.3824 Email: rrudd@vt.edu

Secretary-Treasurer Marilvn B. Parker

151 West 100 South, Rupert, ID 83350, Ph. 208-436-0692, Fax: 208-436-1384, Email: NACTAsec@pmt.org

Journal Editor Rick Parker

151 West 100 South, Rupert, ID 83350, Ph: 208-436-0692, Fax: 208-436-1384 Email: nactaeditor@pmt.org

Western Director-elect Brenda Seevers

New Mexico State University, Ag & Ext Edu PO Box 30003, MSC 3501, Las Cruces, NM 88003, Ph: 505.646.4511, Fax: 505.646.4082 Email: Bseevers@nmsu.edu

Committee Chairs

Journal Awards:

Neil Douglas, Berea College, Kentucky Membership & Public Relations:

Ron Hanson,

University of Nebraska - Lincoln

Educational Issues and Teaching Improvement:

Ann Marie VanDerZanden, Iowa State University

Teacher Recognition:

Nick Fuhrman, Chair, University of Georgia

Host Committee Silent Auction Liaison:

Greg Pillar, Queens University of Charlotte, NC

International Comte Chair:

Mark Russell, Purdue University and Chris Morgan co-chair, University of Ğeorgia

NACTA Foundation Advisory Council:

Mike Mullen, University of Kentucky

Liaisons

NACTA Judging Contest

Lyle Westrom, University of Minnesota, Crookston

Delta Tau Alpha

Jean Gleichsner, Fort Hays State University, KS **AASCARR**

Billye Foster, Tenn Tech University **APLU**

Jean Bertrand, University of Georgia

CFAVM & CADAP

Kent Mullinix, Kwantlen Polytechnic University, Surrey, BC

CAPICU

Al Conklin, Wilmington College, OH

Historian **Kevin Donnelly**

Kansas State University Dept of Agronomy 3107 Throckmorton Hall Manhattan, KS 66506, Ph: 785.532.5402, Fax: 785.532.6094, Email: kjd@ksu.edu

Membership Director Ron Hanson

University of Nebraska, 204A Filley Hall, PO Box 830922, Lincoln, NE 68583-0922, Ph: 402-472-2055, Fax: 402-472-3460, Email: Rhanson1@unl.edu

NACTA Foundation Director **Thomas J Lindahl**

295 Flower Court, Platteville, WI 53818, Ph: 607.348.6628, Cell: 608.778.1074,

Journal Review Board

Kevin Bacon, Western Illinois University

Andrew Barkley, Kansas State University

Melanie Bayles, Oklahoma State University

Jean A. Bertrand, University of Georgia Deborah Bridges, Univ. Nebraska,-Kearney Donald Briskin, University of Illinois Ed Brokaw, Abilene Christian University Tim Buttles, University of Wisconsin-River Falls Ken Casavant, Washington State University Naveen Chikthimmah, University of Wisconsin - Stout Norma Dawkins, Tuskegee University, Alabama Tracy Dougher, Montana State University Levon Esters, Purdue University John Ewing, Penn State University Chad Gasser, Southern Utah University Mark Headings, Ohio State University, ATI Aaron Hegde, CA State University, Bakersfield William Hoch, Montana State University Mark Hubbard, College of the Ozarks Steve Keeley, Kansas State University David Knauft, University of Georgia Mickey Latour, Purdue University

Greg Miller, Iowa State University Kimberly Moore, University of Florida Kent Mullinix, Kwantlen Polytechnic University Don Mulvaney, Auburn University Carol O'Neil, Louisiana State University Greg Pillar, Queens University Shea Porr, Virginia Tech Shannon Pratt, NC State University

Florah Mhlanga, Lipscomb University, TN

Douglas Malo, South Dakota State University

Rebecca K. Splan, Virginia Tech Pamela Scheffler, University of Hawaii Tammy Stephenson, University of Kentucky Daniel Tilley, Oklahoma State University Shweta Trivedi, NC State University

Deb Vanoverbeke, Oklahoma State University Cheryl Wachenheim, ND State University Maud Walsh, Louisiana State University Larae Watkins, University of Central Missouri Karen Williams, University of Wyoming Gary Wingenbach, Texas A&M University

Art Wolfskill, Sam Houston State University Curtis Youngs, Iowa State University

NACTA Journal • December 2011

Kirby Barrick

Dept of Ag Ed & Comm, PO Box 110540,

Gainesville, FL 32611

Email: kbarrick@ufl.edu

Regional Directors

Canadian Director Martin Zuidhof

University of Alberta, Dept of Ag, Food Nutritional Science, #4-10 Ag Forestry Center, Edmonton, AB Canada T6G 2P5. Ph: 780.248.1655, Fax: 780.492.4265, Email: Martin.zuidhof@ualberta.ca

Central Director Kevin Racon

Western Illinois University, Dept of Ag, 1 University Circle, Macomb, IL 61455, Ph: 309.298.1084, Email: kj-bacon@wiu.edu

Eastern Director Tracy Hoover

Penn State University, Dept Ag & Ext Ed, 114A Ferguson Blvd, University Park, PA 16802, Ph: 814.865.1688, Fax: 814.863.4753 Email: Tsh102@psu.edu

Eastern Director-elect Mark Russell

Purdue University, Dept of Animal Science 915 State St West Lafayette, IN 47907 Ph: 765.494.7677, Fax: 765.494.9347, Email:

Southern Director Jeff Hattev

Oklahoma State University, Dept of Plant & Soil Sci., 368 Ag Hall, Stillwater, OK 74078 Ph: 405.744.9586, Fax: 405.744.5269 Email: Jeff.hattev@okstate.edu

Southern Director-elect Jean Bertrand

University of Georgia, College of Ag & Env Sci 102 Conner Hall Athens, GA 30602 Ph: 706.542.1611, Fax: 706.542.2130 Email: Jeanbert@uga.edu

Western Director Tracy Dougher

Montana State University, Dept Plant Sci & Plant Path, PO Box 173140, Bozeman, MT 59717, Ph: 406.994.6772, Fax: 406-994.1848 Email: tracyaod@montana.edu





Vol. 55, No. 4 · December 2011

NACTA Journal (ISSN 0149-4910) is published quarterly by the North American Colleges and Teachers of Agriculture (formerly the National Association of Colleges and Teachers of Agriculture). It is directed toward the scholarship of teaching and learning in agricultural, environmental, natural and life sciences by presenting articles covering topics that treat all aspects of teaching such as methods, problems, philosophy, and rewards at the college level. All manuscripts undergo doubleblind peer review. An author's guide for manuscript preparation is available on the NACTA web page: http://www.nactateachers.org/ or are available upon request. Page charges of \$75.00 per manuscript are waived if one of the authors is a NACTA member at the time of publication.

All manuscripts submitted to the *NACTA Journal* are submitted and reviewed electronically. To submit a manuscript to the *NACTA Journal*, go to this website:

http://nacta.expressacademic.org/

Annual subscriptions (\$USD): Library: \$50.00; Institutional Active (your institution is a member): \$75.00 or \$200 for three years; Active: \$100.00 or \$275 for three years; Graduate Student: \$25.00; Emeritus: \$25.00; and Institutions: \$150.00 (4-year schools) and \$100 (2-year schools). Lifetime members one payment of \$750 or 4 payments of \$200. For questions about subscriptions contact the NACTA Secretary/Treasurer.

The Journal is published electronically/online and quarterly - March, June, September and December. The issues for the current year are available to NACTA members at this website: http://www.nactateachers.org/journal.html, a login and password obtained through membership is required.

Searchable past issues of the NACTA Journal are available to anyone at the same website – no login or password required.

A yearly hard copy of all four issues is printed in December and is available for purchase through Lulu.com.

Permission is granted for making individual copies of the contents of this issue if the *NACTA Journal* is fully cited as the source and full recognition is given to the authors.

The North American Colleges and Teachers of Agriculture (NACTA) is not responsible for statements and opinions published in the *NACTA Journal*. They represent the views of the authors or persons to whom they are credited and are not necessarily those of the Association. The publication of research information by the Association does not constitute a recommendation or endorsement of products or instrumentation involved.

Rick Parker, Editor nactaeditor@pmt.org



the professional journal advancing the scholarship of teaching and learning in agricultural, environmental, natural, and life sciences

Contents

Attracting an Eclectic Set of Students into a Science- based Agriculture Course Using Terrorism as the Context 2-7
Student Perceptions of Hybrid vs. Traditional Courses: A Case Study in Plant Identification8-13
Using the Myers-Briggs Type Indicator (MBTI®) in the Teaching of Entrepreneurial Skills at an Iranian University
Leadership Behaviors of Georgia Golf Course Superintendents: Implications for Post-secondary Programs23-30
Resiliency and Achievement Goal Orientation among Agricultural Students31-38
An Integrated Framework for Assessing Oral Presentations Using Peer, Self, and Instructor Assessment Strategies
Undergraduate Students' Use of Time in the College of Agriculture and Natural Resources at Michigan State University45-52
Engaging Agriculture Students in the Publication Process through Popular Press Magazines53-58
Field Trip to Racetrack Enhances Classroom Experience59-64
Expansive Collaboration: A Model for Transformed Classrooms, Community-Based Research, and Service-Learning65-74
Urban High School Students' Perceptions about Agricultural Careers and General Agricultural Knowledge75-81
Encouraging Critical Reflection through ActionResearch Projects in Agriculture and Natural Resources Teacher Preparation: A Case Study82-90
Team-based Learning for Agricultural Ethics91-96
Use and Effectiveness of Online Quizzes as a Study Aid for an Introduction to Animal Science Laboratory Course97-101
NACTA Reprint102-104
Teaching Tips/Notes105-110
Join NACTA