

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

Kirby Barrick

Dept of Ag Ed & Comm
PO Box 110540, Gainesville, FL 32611
Ph: 352.392.0502, Fax: 352.392.9585
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 Bacon

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

Southern Director

Jeff Hattey

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

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

Marilyn 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 Committee Chair:

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

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

CFAMV & 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
Email: lindahl@uwplatt.edu

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
Florah Mhlanga, Lipscomb University, TN
Douglas Malo, South Dakota State 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
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 (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 double-blind 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

NACTA Journal

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

Contents

Elements and Analysis of an Internship Program in Animal Sciences	2
Identifying Faculty's Knowledge of Critical Thinking Concepts and Perceptions of Critical Thinking Instruction in Higher Education.....	9
Supporting Online Group Projects	15
Examining the Teaching Behaviors of Successful Teachers in a College of Agricultural and Life Sciences.....	21
Using Second Life to Educate in Agriculture: A Review of Literature.....	29
Engaging Under-represented Youth in Food, Agriculture and Natural Resources through Pre-College Residential Summer Programs.....	38
Identifying Strategies for Diversity Inclusive Agricultural Education Programs	47
Examining the Student Impacts of Three International Capstone Experiences.....	55
Experiential Learning on the Internet: A Case Study of the Internet Agricultural Bank Simulation Game	63
Cooperative Learning Through In-Class Team Work: An Approach to Classroom Instruction in a Life Cycle Nutrition Course	68
Shepherding Undergraduate Students Through a Research Experience and a Professional Meeting	76
Effects of a Summer Teacher Tour Program on Agriculture and Science Teachers' Knowledge of Applying Science, Technology and Math in Research and Industry.....	83
NACTA Reprint	88
Teaching Tips/Notes	93
Book Reviews.....	99
Join NACTA	101