

Vol. 60, No. 4 • December 2016

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 \$100.00 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.

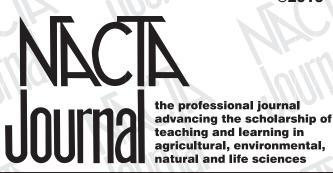
Searchable past issues of the NACTA Journal are available to anyone at the same website – no login or password required.

A yearly hard copy of all four issues is printed in December.

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



Early Field Experience of Business and Family and

## **Contents**

Consumer Sciences Teacher Education352
Assessment for Learning: Integration of Assessment in a Nutrition Course with a Service-Learning Component
Expectations and Experience: An Exploratory Study of Undergraduate Research Experiences as Viewed through the Experiential Learning Theory364
A Student-Driven Nutritional Biochemistry Recitation Course Demonstrated Better Grades and Acceptability among Enrolled Students372
Research Internships: A Useful Experience for Honing Soft and Disciplinary Skills of Agricultural Majors379
Scholar Development: A Conceptual Guide for Outreach and Teaching385
An Examination of a Graduate Learning Community in a College of Agriculture398
The Whole is Greater than the Sum: An Empirical Analysis of the Effect of Team Based Learning on Student Achievement405
Current and Anticipated Funding Sources and Expenses for Four-Year Collegiate Livestock Judging Programs412
Incorporating Writing-Intensive Assignments in an Animal Science Production Course417
Investigating Factors that Influence Achievement Goal Orientation and Educational Practices in Undergraduate Agricultural Sciences and Natural Resource Students
Comprehensive Study of Undergraduate Student Success at a Land Grant University College of Agricultural Sciences, 1990-2014432
NACTA Reprint441
Teaching Tips/Notes446
Book Reviews452