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Journal of Natural Resources and Life Sciences Education

Scope of Contributions. The Editorial Board will review articles presenting original teaching methods in such areas as natural resources, life sciences, agriculture, K–16 education, and other biological sciences: (1) reports of original research pertaining to concepts of resident, graduate, extension, and industrial education; (2) analyses and syntheses of existing knowledge or research, instructional techniques and methodology, surveys of instruction, and other studies that contribute to the development or better understanding of educational efforts; (3) reviews or digests of a comprehensive and well-defined scope; (4) case studies; (5) computer software papers; (6) newsfeatures; and (7) K–12, undergraduate, and graduate education.

Articles may confirm and strengthen the findings of others, revise established ideas or practices, or challenge accepted theory, providing the evidence presented is significant and convincing. Manuscripts based chiefly on personal philosophy or opinion are acceptable if they conform to the above criteria. The editor solicits media reviews and profiles, or they may be volunteered. The journal encourages "Letters to the Editor," including comments and criticisms of published articles and editorials, suggestions for journal improvement, and other educational concerns or viewpoints.

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- Title page
- References list
- Abstract
- Figure captions
- Text
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Title Page. The title page should include:

- A short (<12 words) title that accurately identifies and describes the manuscript content.
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- An abbreviations list, with key abbreviations that are used repeatedly throughout the manuscript. The list should not include SI units or elemental abbreviations.
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- Only literature that is available through libraries can be cited.
 Material that does not meet this standard should be cited as personal communications or unpublished data.
- Examples of References:

Journal article

Weil, R.R. 2002. Soil and environmental quality: A course for nonmajors. J. Nat. Resour. Life Sci. Educ. 31:117–122.

Online source

University of Minnesota. 1998. Golf facilities and turf systems. Available at www.crk.umn.edu/academics/golf/Careers/ (accessed 25 Nov. 2003; verified 5 Feb. 2004). Univ. of Minnesota, Crookston, MN.

Book

Howell, P.P., and J.A. Allan. 1994. The Nile sharing a scarce resource. Cambridge Univ. Press, London.

Chapter in a book

Svinicki, M.D., A.S. Hagen, and D.K. Meyer. 1996. How research on learning strengthens instruction. p. 257–288. *In* R.J. Menges and M. Weimer (ed.) Teaching on solid ground. Jossey Bass Publ., San Francisco, CA.

Chapter in a proceedings

Power, J.F., and V.O. Biederbeck. 1991. Role of cover crops in integrated crop production systems. p. 167–174. *In* W.L. Hargrove (ed.) Cover crops for clean water. Proc. Int. Conf., Jackson, TN. 9–11 Apr. 1991. Soil and Water Conserv. Soc., Ankeny, IA.

Figure Captions. If the manuscript has figures, insert the text for the captions in the file following the references list. Spell out abbreviations on first mention in figure captions, even if they have already been defined in the text. (The reader should be able to understand the figure content without referring back to the text).

Tables. Compose tables using the word processor's table feature (i.e., the table should have defined cells—do not create tables by using the space bar and/or tab key). Tables should not duplicate matter that is presented in figures. Use the following symbols for footnotes in the order shown: † , † , etc. The symbols * , ** , and *** are always used to indicate statistical significance at the 0.05, 0.01, and 0.001 probability levels, respectively, and are not used for other footnotes. As with figure captions, spell out abbreviations on first mention

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- Use a comma before the final item in a list of three or more items. For example: "Students collect the data, summarize the results, and write a report..."
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- The Latin binomial or trinomial and authority must be shown for all plants, insects, pathogens, and animals at first listing. For example: "Mapping data are presented for three of the barley (Hordeum vulgare L.) traits..."
- Manufacturer information must be included after first mention of a commercially available product. For example: "Samples were analyzed with a graphite furnace (HGA 600; PerkinElmer, Wellesley, MA)..."
- Software and software manuals must include a references list entry. For example: "SAS Institute. 1990. SAS user's guide: Statistics. SAS Inst., Cary, NC."
- SI units must be used in all manuscripts. Non-SI units may be added in parentheses.

Sources

- Spelling: Webster's New Collegiate Dictionary
- Plant scientific names: USDA-ARS GRIN Taxonomy (www.ars-grin.gov/cgi-bin/npgs/html/taxgenform.pl)
- Chemical names: ChemFinder.com (http://chemfinder.cambridgesoft.com/)
- Soil series descriptions: USDA-NRCS Official Soil Series Descriptions

(http://soils.usda.gov/technical/classification/osd/)

- Fungal nomenclature: Fungi on Plants and Plant Products in the United States (APS Press)
- Journal abbreviations: Chemical Abstracts Service Source Index (CASSI; American Chemical Society, revised yearly)

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Questions?

Contact Susan Ernst, Managing Editor, JNRLSE (sernst@ agronomy.org).

Updated 11/17/2008