

# Next Steps for *The Ohio Journal of Science*

*Something there is that doesn't love a wall.*

—ROBERT FROST (1916)

By DR. LYNN E. ELFNER  
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Please know that such topics as agriculture, Lake Erie, water quality, Ohio geology and soils, ecology, aquatic science, biodiversity, invasive and endangered species, environmental sciences, and education will remain a forte of the Journal.

## Team Science

A Sigma Xi White Paper (Elfner et al. 2011) entitled "Team Science: Heaving Walls & Melding Silos," emphasizes team-based inter, multi and transdisciplinary research that may underpin solutions to world problems. The prophetic lines of the Robert Frost (1916) poem "Mending Wall" have haunted me since 1962 when I first read them in Freshman English at The Ohio State University. Frost wrote:

"Something there is that doesn't love a wall, / That sends the frozen-ground-swell under it, / And spills the upper boulders in the sun; / And makes gaps even two can pass." Later in the poem he laments: "Before

I built a wall I'd ask to know / What I was walling in or walling out, / And to whom I was like to give offense."

The Journal will feature a special class of invited research reviews in emerging areas of R&D such as OSU's Discovery Themes and Ohio's Third Frontier initiatives. Priority would include areas that are team-based, inter, multi or transdisciplinary and have impact on agriculture and food, the environment, energy, medical/health care, the economy, big data/data analytics, manufacturing, construction, transportation, education, and sustainability. I will invite multi-author teams from academia, government and industry to submit manuscripts for peer-review that summarize the history, status and future of emerging areas of team research—especially transdisciplinary research and development. I will expect authors to summarize concepts, principles and understandings from seminal papers that have spawned new or emerging fields of inquiry.

## Notes

The Geology Fund will enable us to publish at least 150 pages of geology and soils-related papers free to authors. Now you will see Digital Object Identifiers (DOIs) for the Journal articles and for citations in the reference lists at the end of articles. A DOI is a permanently retrievable internet link to an article. We welcome suggestions from members for books to review. We anticipate receiving a research review manuscript on design learning, a parallel to inquiry learning. Finally, we will invite a team of scientists to submit a manuscript for peer review that would summarize contemporary research techniques and findings in evolution and their applications to science and society.

## How to Submit a Manuscript

Go to <http://ohiojournalofscience.org> to peruse recent issues of *The Ohio Journal of Science*. Read the author guidelines linked there. Register at that site and upload your manuscript and illustrations.

## Literature Cited

- Elfner LE, Falk-Krzesinski HJ, Sullivan KO, Illman DL, Baker J, Pita A. 2011. Team science: heaving walls & melding silos, a Sigma Xi White Paper. *American Scientist*. 99 (6):1-8.
- Frost R. 1916. Mending Wall. In: *The poetry of Robert Frost by Robert Frost*, edited by Edward Connery Lathem. Holt Rinehart and Winston, Inc. (Accessed 1 Dec 2017 <https://www.poets.org/poetsorg/poem/mending-wall>)