JOURNAL OF COLLEGE SCIENCE TEACHING

CONTENIDO

VOLUME 39, No. 6 JULY-AUGUST 2010

FACTURES

- 14 Achievable Inquiry in the College Laboratory: The Mini-Journal.

 Stephen B. Witzing, Ningfeng Zhao, Sandra K. Abell, Jan C. Weaver, John E. Adams, and Frank J. Schmidt.
- Promoting Science Literacy Through Research Service-Learning an Emerging Pedagogy With Significant Benefits for Students, Faculty, Universities, and Communities.

 Julie A. Reynolds and Jennifer Ahern-Dodson.
- Institutionalizing Undergraduate Research for Geology Majors Through Creative Inquiry Experiences.

 John R. Wagner, Robert D. Bixler, Elizabeth R. Carraway, Stephen M. Moysey, Lawrence R. Murdoch, Mark R. Schlautman, and Richard D. Warner.
- The Division of Chemical Education Revisited, 25 Years Later. *George M. Bodner and Marcy H. Towns.*
- Weaving Science and Civics Through Interdisciplinary Courses. *David S. Senchina*.
- An Electromagnetic Spectrum for Millennial Students: Teaching Light, Color Energy, and Frequency Using the Electronic Devices or Our Time.

 Maureen Kendrick Murphy.
- And the Winners Are.

 Award-Winning Science Books of 2009.

 D. Yvonne Jones.
- Acquisition and Retention of Quantitative Communication Skills in an Undergraduate Biology Curriculum: Long-Tern Retention Results. Cary D. Chevalier, David C. Ashley, and John W. Rushin.

DEPARTMENTS

6 **Editorial**Three Wishes. *Ann Cutler*.

8 Headline Science

Fish fear own reflection • Mysterious ball lightning.

12 Point of View

Dual Enrollment: Postsecondary/Secondary Partnerships to Prepare Students. *Katherine L. Hughes*.

64 Favorite Demonstration

Throwing the Dice: Teaching the Hemocytometer. Sarah Salm, Lauren Goodwyn, Nanette van Loon, and Georgia Lind.

68 Case Study

The Scientific Method Ain't What It Used to Be. *Clyde Freeman Herreid*.

74 Research and Teaching.

An Assessment of STEM Faculty Involvement in Reform of Introductory College Courses. *Ronald J. Henry*.

Research and Teaching.

An Inquiry-Based Biology Laboratory Improves Preservice Elementary Teachers' Attitudes About Science. *Jack Tessier*.

ALSO IN THIS ISSUE

83 Call for Papers.

91 NSTA Conferences

100 Index of Advertisers

COVER

Revisit the Division of Chemical Education at Perdue University 25 years after its creation on page 38. Learn how millennial students can be taught the electromagnetic spectrum using modern electronic devices of our time on page 52. Add some of the award-winning science books of 2009 on page 60 to your summer reading list. **Cover Image**: Castroviejo, in the province of Soria, Spain. Photo provided by Punchstock.