

issue:1326

2009 Winter Issue, Vol. 4, No. 2

This issue is published as of February 27, 2009.

Teaching, Learning, and Assessment Processes

- [Becoming an Engineer: Toward a Three Dimensional View of Engineering Learning](#)
- [Comparing the Influence of Physical and Virtual Manipulatives in the Context of the Physics by Inquiry Curriculum: The Case of Undergraduate Students' Conceptual Understanding of Heat and Temperature](#)
- [Pattern-Oriented Instruction and its Influence on Problem Decomposition and Solution Construction](#)
- [Teaching Students to Think Nondeterministically](#)
- [Using Reflection to Promote Teamwork Understanding in Engineering Design Education](#)

Teachers and Learners

- [Conceptualizing Engagement: Contributions of Faculty to Student Engagement in Engineering](#)
- [Persistence, Engagement, and Migration in Engineering Programs](#)
- [Reflections on Teaching and Learning in an Advanced Undergraduate Course in Embedded Systems](#)
- ["So My Program Doesn't Run!" Definition, Origins, and Practical Expressions of Students' \(Mis\)Conceptions of Correctness](#)
- [Teaching Communication in Capstone Design: The Role of the Instructor in Situated Learning](#)

Courses, Laboratories, Curricula, Instructional Materials, and Learning Technologies

- [A Flexible Homework Method](#)
- [Finger Kits: An Interactive Demonstration of Biomaterials and Engineering for Elementary School Students](#)
- [Integrated Approaches in Physics Education: A Graduate Level Course in Physics, Pedagogy, and Education Research](#)
- [Using Writing Assignments to Improve Self-Assessment and Communication Skills in an](#)

[Engineering Statics Course](#)

Political, Economic, and Social Influences on Engineering Education

- [Development for the Other 80%: Engineering Hope](#)
- [Embarking on and Persisting in Scientific Fields of Study: Cultural Capital, Gender, and Curriculum Along the Science Pipeline](#)
- [I Still Wanna be an Engineer! Women, Education and the Engineering Profession](#)

Diffusion of Educational Innovations

- [Physics Faculty and Educational Researchers: Divergent Expectations as Barriers to the Diffusion of Innovations](#)

[: Back to List of Issues](#)

[: Back to Table of Contents](#)