

Themed Issue on *Research and Practice in Chemical Education in Advanced Courses*

Scheduled for publication in April 2008

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CALL FOR PAPERS

Contributions are invited for a themed, peer-reviewed issue of CERP on

Research and Practice in Chemical Education in Advanced Courses

The contributions will be of two kinds:

- (a) research-based papers;
- (b) papers on effective practice*.

Possible subjects for contributions include:

- Learning chemistry in analytical, biochemistry, inorganic, organic, or physical chemistry courses for undergraduate chemistry majors, engineering majors, or students from other sciences.
- Learning chemistry in graduate-level courses in analytical, biochemistry, inorganic, organic, or physical chemistry.
- Students' attitudes toward and interest in advanced-level chemistry courses.
- Students' perceptions of the learning environment in advanced-level chemistry courses.
- Assessing students' performance, progress and achievement using non-traditional modes of assessment in advanced-level courses.
- Incorporating non-traditional modes of instruction and inquiry-based instruction in upper-level chemistry courses.
- Incorporating molecular visualization and/or simulations into upper-level chemistry courses for undergraduates or graduate students.
- The training of teaching assistants and other forms of professional development as part of graduate education.
- Non-traditional models of laboratory instruction or research about laboratory instruction in advanced-level chemistry courses.

Papers can refer to one or more of the advanced or upper-level courses taught at the college or university level to undergraduates or graduate students. The list is intended to suggest the scope of possible contributions, but it is not exclusive.

* Please note that papers that describe innovative approaches to teaching chemistry in advanced courses that do not provide some evidence about their actual effectiveness on learning and/or student motivation and interest, which is what is meant by "effective practice", will not be given consideration.

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- Submissions of manuscripts (in the format required by the journal - see guidelines on the journal homepage at <http://www.rsc.org/Education/CERP/guidelines.asp>) or enquiries concerning the suitability of possible contributions should be sent directly by e-mail to: George Bodner, Department of Chemistry, Purdue University, West Lafayette, IN, 47907 (USA), gmbodner@purdue.edu. Please copy your correspondence also to cerp@rsc.org.
 - IMPORTANT DATES: Submission of manuscripts by: October 31, 2007. Potential contributions will be subject to the journal's usual peer-review process. Where revisions are required, these must be submitted by February 15, 2008.