

**Innovations in Chemical Education**, an all day symposium (Monday, 20 October 2003) at the Central Regional Meeting in Pittsburgh.

Organized by J.J. Grabowski, Department of Chemistry, University of Pittsburgh (joeg@pitt.edu).

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| <b>Speaker</b>             | <b>Affiliation</b>                    | <b>Presentation Title</b>  | <b>Affiliated Web Site</b>   | <b>Speaker Order</b> |
|----------------------------|---------------------------------------|--|--|----------------------|
| Richard Hark               | Juniata College                       | The Chemistry of Art: Teaching Science in a Liberal Arts Context   | <a href="http://faculty.juniata.edu/hark/chemistry%20&amp;%20art%20resources.htm">http://faculty.juniata.edu/hark/chemistry%20&amp;%20art%20resources.htm</a> .<br><a href="http://chronicle.com/weekly/v49/i33/33a05601.htm">http://chronicle.com/weekly/v49/i33/33a05601.htm</a> | 1 (am)               |
| David Yaron                | Carnegie Mellon University            | Virtual labs and Scenario-based learning for Introductory Chemistry  | <a href="http://ir.chem.cmu.edu/irproject/">http://ir.chem.cmu.edu/irproject/</a>  | 2 (am)               |
| Rick Moog                  | Franklin & Marshall College           | Process Oriented Guided Inquiry Learning: A Student-Centered Approach to Chemistry Instruction   | <a href="http://madcp.fandm.edu/">http://madcp.fandm.edu/</a>  | 3 (am)               |
| John Penn                  | West Virginia University              | A New Element on the Periodic Table - IT - Using the Element of Information Technology (i.e., Computer-assisted Learning) in the Chemistry Classroom | <a href="http://we-learn-horizon.com/">http://we-learn-horizon.com/</a>  | 4 (am)               |
| Elisabeth T. Bell-Loncella | University of Pittsburgh at Johnstown | Synthesis and Characterization: Guided Inquiry and Molecular Modeling in an Upper Level Comprehensive Lab  | <a href="http://www.pitt.edu/~etbell/">http://www.pitt.edu/~etbell/</a>  | 5 (am)               |
| Marin Robinson             | Northern Arizona University           | Teaching Research-Oriented Writing Skills to Upper Division Chemistry Majors.  | <a href="http://www.nau.edu/~chem/faculty/robinson/index.htm">http://www.nau.edu/~chem/faculty/robinson/index.htm</a>  | 6 (pm)               |
| Nancy Levinger             | Colorado State University             | Undergraduate Research: Developing connected, motivated, and inspired undergraduate students   | <a href="http://chemreu.chem.indiana.edu/">http://chemreu.chem.indiana.edu/</a>  | 7 (pm)               |
| Kenneth D. Jordan          | University of Pittsburgh              | The Third Dimension in Visualization   | <a href="http://chemed.chem.pitt.edu/3DProjection/">http://chemed.chem.pitt.edu/3DProjection/</a>  | 8 (pm)               |
| Jonathan N. Southard       | Indiana University of Pennsylvania    | Protein structure modeling and visualization: a discovery process for undergraduates   | <a href="http://wey238ab.ch.iup.edu/southard/">http://wey238ab.ch.iup.edu/southard/</a>  | 9 (pm)               |
| Mark Bier                  | Carnegie Mellon University            | Protein Identification Using the Virtual Mass Spectrometry Laboratory  | <a href="http://mass-spec.chem.cmu.edu/testVMSL/">http://mass-spec.chem.cmu.edu/testVMSL/</a>  | 10 (pm)              |