Computational Biology and Chemistry in the Classroom. A Hands-on Workshop for Educators

Computation has revolutionized both chemistry and biology. In both disciplines, computer simulation and analysis have become central to both understanding and progress in research.

NCSA has created an integrated interface to optimize the connection between lesson material, text-based tools, and computing tools in both biology and chemistry.

http://www.bsw-uiuc.net/moodle/Tutinfo.php

The MOODLE of the Biology Student Workbench project http://bsw-uiuc.net/

In addition, NCSA has created an authoring suite to allow for the EASY creation of new lesson materials in such integrated environment. During the workshop attendees will be able to use the authoring suite to compose new lessons.

There will be three components to the workshop:

- Introduction to existing lessons, information sources, and computational tools in the biology/chemistry interface for teaching, learning, and exploration.
- Workshop attendees will compose new lesson material tailored to their particular instructional needs within the NCSA biology/chemistry teaching interface. (Attendees will have continued remote access to this environment after the workshop ends.)
- Attendees will present their work-in-progress to each other and critique each other, to provide the best possible foundation for continued development after the workshop ends.

June 2, 2008 - June 6, 2008

National Center for Supercomputing Applications
at the University of Illinois at Urbana-Champaign
NCSA building, Room 1030
1205 W Clark St., Urbana, IL

For additional information, please contact
NCSA Education and Outreach Group
Email: education@ncsa.uiuc.edu

Registration: www.computationalscience.org
Registration closing date: May 4th, 2008

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