

SAVE THE DATE **march 8-9, 2011 san francisco**

Cyberlearning Tools for STEM Education (CyTSE)



conference

Immediately preceding the 2011 National Science Teachers Association (NSTA) conference

Visit our website: <http://cyberlearningstem.org>

For sponsorship opportunities: email cytse@northwestern.edu

Register online at www.regonline.com/cytse

CyTSE Conference

Bringing together an exclusive group of thought leaders, researchers, developers, K-12 STEM educators, public and private sector leaders interested in learning about new cyberlearning tools to engage and educate the current net-savvy generation about science, technology, engineering, and mathematics (STEM).

Day 1, March 8: Research & Development

Expert Forums

- Cyberlearning Tools and Future of STEM Education
- Cyberlearning Strategies and Funding

Interactive Sessions

- Emerging Technologies
- Design and Development
- Technical and Deployment Challenges/Solutions
- Implementation and Integration
- Research and Evaluation

Day 2, March 9: Using Cyberlearning Tools

Extended Hands-on Demo Sessions

- Try out the latest generation of cyberlearning tools

In-Depth Sessions

- Professional Development – Get trained on your favorite cyberlearning tool
- Design Focus Groups – Provide feedback to developers on new cyberlearning tools

Conference Goals

Bridging the “research-to-practice” gap: Teachers will learn how to use these tools into their classroom & researchers will learn how to improve the design and adoption of their tools through teacher feedback

- Address important trends & issues on how tools can fit into and extend K-12 STEM education
- Develop a research agenda on cyberlearning tools and their role in preparing students for the future STEM workforce
- Provide a forum for attendees to share knowledge and forge new partnerships

what are cyberlearning tools?

- Simulation and modeling tools
- Remote online laboratories
- Augmented reality
- Visual programming languages
- Geographic Information Systems
- Online media repositories
- Data visualization environments
- Scientific inquiry support environments
- Serious games and virtual worlds
- Intelligent tutoring systems
- Online STEM learning communities for teachers and learners
- Digital libraries

speakers

Carl Wieman

Nobel Laureate in Physics and Chairman of the Physics Education Technology Project

Karen Cator

Director of the Office of Educational Technology, U.S. Department of Education

Mike Lach

Special Assistant to the Deputy Secretary, U.S. Department of Education

Roy Pea

Professor of Education and the Learning Sciences and Co-Director: H-STAR Institute (Human Sciences and Technologies Advanced Research), Stanford University

Allan Collins & Richard Halverson

Authors of Rethinking Education in the Age of Technology

Janet Kolodner

NSF Cyberlearning Program Officer

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Claremont Hotel Club & Spa



The Claremont Hotel Club & Spa will be the site of the 2011 CyTSE Conference. Located in the hills of Berkeley, California, the Claremont offers spectacular views of the Bay Area and is close to fine Berkeley restaurants, downtown San Francisco, and the Oakland Airport. The Claremont has been awarded one of the Top Spas in the U.S. by *Elle* Magazine. The hotel features a state-of-the-art fitness center, a three-pool aquatic facility, tennis courts, and yoga classes (all complementary to conference attendees).

Who's Attending?

A limited and exclusive group of cyberlearning developers, educational researchers, K-12 STEM teachers, district and state educational leaders, informal STEM educators, curriculum developers & publishers, science museums, national leaders in STEM and cyberlearning .

CONFERENCE ORGANIZERS

The conference is being organized by the Office of STEM Education Partnerships (OSEP) at Northwestern University, which supports K-12 students and teachers by connecting them with world-class science, technology, engineering and mathematics resources at Northwestern University and beyond. For details, see www.osep.northwestern.edu.

■ Northwestern University

Dr. Kemi Jona, Director of the Office of STEM Education Partnerships at Northwestern University

■ University of Colorado at Boulder

Dr. Wendy Adams, Co-Director, Physics Education Technology (PhET) Project/CU Science Education Initiative (SEI), and Dr. Katherine Perkins, Co-Director, PhET and Associate Director, SEI

■ WGBH Boston

Ted Sicker, Executive Producer, Teachers' Domain, WGBH

■ University of Queensland

Dr. Phillip Long, Director of the Centre for Educational Innovation and Technology at the University of Queensland

Researcher & Teacher Benefits

Benefits for Researchers

- Present your work to a broad range of teachers & colleagues
- Explore synergies with other cyberlearning developers
- Conduct teacher focus groups & training workshops
- Promote your projects to educators nationwide through WGBH's Teachers' Domain
- Develop a cyberlearning research agenda
- Explore research & evaluation methodologies

Benefits for Teachers

- Discover the latest cyberlearning tools and how to integrate them into your curriculum
- Cyberlearning workshops
- Hands-on demos
- In-depth sessions on cyberlearning tools
- Meet cyberlearning tool developers/researchers and give them feedback on the design of new tools
- Network in a friendly environment with other teachers interested in cyberlearning
- Conveniently precedes NSTA



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The Conference on Cyberlearning Tools for STEM Education (CyTSE) is supported by the National Science Foundation under grant DRL-0929628. However, any opinions, findings, conclusions, and/or recommendations are those of the investigators and do not necessarily reflect the views of the