

# Call for Presenters

## Cyberlearning Tools for STEM Education (CyTSE) Conference

March 8-9, 2011  
(Immediately preceding NSTA Conference in San Francisco)  
Claremont Club & Spa, Berkeley, CA

Web: [www.cyberlearningSTEM.org](http://www.cyberlearningSTEM.org) Email: [cytse@northwestern.edu](mailto:cytse@northwestern.edu)

**Deadline for Submissions: Friday, October 15, 2010, 5pm CST**

The goal of the inaugural CyTSE conference is to bring together disciplinary scientists, cyberlearning developers, educational researchers, K-12 educators and technology leaders, informal educators, curriculum developers and publishers, foundation officers, science museums, and STEM education and outreach programs to share knowledge, forge new partnerships, and contribute to the development of a research agenda on K-12 STEM cyberlearning tools and their role in preparing the future STEM workforce and science/technology-savvy citizens. This highly interactive, thoughtfully structured, 2-day conference will bridge significant gaps among these communities, surface important trends and issues, and foster important dialogue on K-12 STEM cyberlearning tools.

### **What is Cyberlearning?**

Cyberlearning is the use of networked computing and communication technologies to support learning. Example cyberlearning tools include: simulation and modeling tools, remote online laboratories, augmented reality, visual programming languages, geographic information systems utilizing online geospatial data sets, data visualization environments, online scientific inquiry support environments, serious games and virtual worlds, intelligent tutoring systems, cloud computing based tools, and online STEM learning communities for teachers and students. *All submissions to the CyTSE conference should involve an online component.*

### **The CyTSE Conference**

CyTSE is intended to be a small, targeted forum for exploring new and emerging ideas, trends, and technologies in cyberlearning tools for STEM education. National STEM and cyberlearning thought leaders, funders, and policymakers will be providing visionary keynotes.

The conference format has been designed to facilitate active interaction and dialogue among presenters and participants. Therefore, long, formal PowerPoint-based presentations have been eliminated (keynotes excepted). There are several forums available for presenters. Presenters are welcome to present in as many formats as appropriate for their interests and tools.

- **Interactive Breakout Session / Discussion forum** – A small group breakout consisting of 4-5 brief (10-15 min) presentations around a particular theme or topic with opportunities for participants to walk around and discuss materials with presenters. Breakout topics will be organized based on common themes in submitted proposals. Themes of interest include, but are not limited to:
  - **Educator Presentations** – Teachers or informal STEM educators present experiences with cyberlearning tools in their classroom or program

- **Emerging Technologies** – Latest generation of tools and platforms from industry, government, and higher education research labs
  - **Design and Development** – Tools and techniques for creating cyberlearning resources and curriculum materials
  - **Technical and Deployment Challenges; Interoperability; Hosted/Cloud-based strategies** – Issues including single-sign on (SSO), data exchange & warehousing, scalable backend platforms, etc.
  - **Implementation at Scale** – How to design and scale up the use of cyberlearning tools in educational programs and integrate them into existing programs
  - **Research and Evaluation** – Research methodologies/instruments, and evaluations of cyberlearning effectiveness in a variety of educational settings
  - **Handheld / Mobile Platforms** – iPad/iPhone/Android apps, unique benefits/limitations of mobile learning platforms
- **Hands-On Demo Session** – Set up your laptop and materials on a table and show off your cyberlearning tools during this 90-minute session. All conference participants will attend and will be looking to try out your system in this informal, highly interactive session.
  - **Teacher Professional Development Session** – A 3-hour session for providing in-depth hands-on training on your cyberlearning tool or cyber-enabled curriculum materials. Participants will be asked to bring their Wi-Fi enabled laptops.
  - **Teacher Design Focus Groups** – For cyberlearning developers and publishers in early stages of development, this 3-hour session allows you to convene interested K-12 educators and leaders to provide feedback on your new cyberlearning tools and materials. Other focus group proposals are also welcome.
  - **Innovation Incubator** – Cyberlearning developers have the opportunity to meet conference sponsors including publishers, online course providers, and others interested in dissemination of cyberlearning technologies in a “speed networking” format. This is a unique opportunity to forge strategic relationships that will facilitate broad adoption and dissemination of your tools and materials.

**Technical details:** Free high-bandwidth Wi-Fi will be available in all conference venues and guest rooms. Ample power strips will be available in all meeting and plenary rooms. Participants will be expected to bring their own Wi-Fi laptops to participate in focus groups and professional development sessions. An online/iPhone-based interactive conference agenda, discussion backchannel, audience polling, and participant roster will be available for all sessions. Presenters at the hands-on demo session will be asked to bring their own projector/monitor or one is available to rent from the hotel and will be set up at your demo table (see form below). Questions on technical issues should be addressed to [cytse@northwestern.edu](mailto:cytse@northwestern.edu).

**Instructions:** Complete the fields below and save this document with a filename of Yourlastname.pdf. Email to [cytse@northwestern.edu](mailto:cytse@northwestern.edu) by the submission deadline. Presenters submitting more than one form, please name your documents Yourlastname1.pdf, Yourlastname2.pdf. If your presentation is accepted, information provided in this form will be used to populate your session information and participant profile on the interactive conference agenda / backchannel / networking site.

**Please fill in the information below.** (\* indicates required field)

*First Name:	*Last Name:
Title:	*Organization/School:
*Mailing Address	*Email Address:
	*Phone:
Personal home page:	Facebook:
Twitter:	LinkedIn:

- I would like to participate in the Innovation Incubator (Restricted to cyberlearning developers who have a tool in development or ready for dissemination. Space is limited and will be allocated on a first come first served basis.)**

**What type of session format are you interested in?**

(You may elect to do more than one type of session. Please submit a separate copy of this form for each proposed session. Only one submission per session type please – you can't be in two places at once!)

- Interactive Breakout Session / Discussion forum (90 min)**

Which theme best describes your proposed session, or suggest another theme:

- Teacher/Educator Presentation
- Emerging Technologies
- Design and Development
- Technical and Deployment Challenges / Solutions; Interoperability; Cloud-based platforms
- Implementation at Scale
- Research and Evaluation
- Handheld/Mobile Platforms
- Other. Specify: \_\_\_\_\_

- Hands-On Demo Session (90 min)**

- I am bringing my own projector/monitor
- I would like to rent a 32" LCD Flat Panel monitor (An approximate \$250 AV fee will be added to your registration cost. AV staff will handle all set up/breakdown for you.)

- Teacher Professional Development Session (3 hrs)**

- Design Focus Group (3 hrs)**

**STEM Area(s):**

(select all that apply)

- Earth and Ocean Science
- Space Science
- Biology/Life Science
- Chemistry
- Environmental Science
- Integrated/General
- Physics/Physical Science
- Computational thinking
- Mathematics
- Engineering / Design
- Other. Specify: \_\_\_\_\_

**Session Title or Name of Cyberlearning Tool (as appropriate):**

\_\_\_\_\_

**Summary of Proposal**

In the space provided below, describe your proposed session. Include the goals of the session, the application in education, and the availability and cost of your product (if applicable) and target grade level (if applicable). Please provide any screen shots, website URLs, or other information that you feel will help us understand your cyberlearning tool, research, or experience. (250 words or less)

**Descriptive Keywords/Tags:** \_\_\_\_\_

**URLs:** \_\_\_\_\_

**In the space provided below, please provide a short speaker bio(s) (<250 words). You may include URL links to your cyberlearning tool or personal website. This information will be published in the online and print conference program.**