SRI Education





Can we enhance curriculum with cyberlearning resources?

Presented at Successful STEM Education February 1, 2016

Jeremy Roschelle, Director Center for Technology in Learning

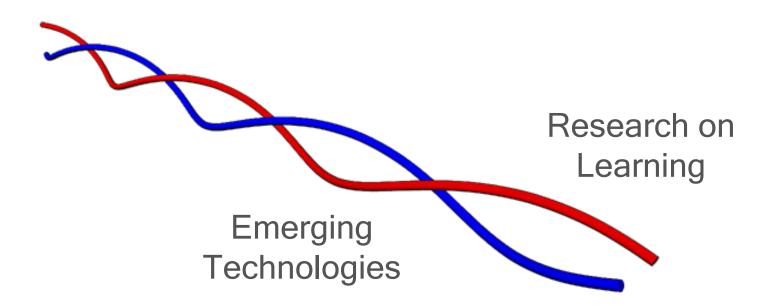


What is cyberlearning?

- 1. Jeremy Roschelle: SRI Overview Cyberlearning
- Kathy Perkins, University of Colorado, Boulder PhET Sims
- 3. Jennie Chiu: University of Virginia Engineering and Science Practices

What is Cyberlearning?

New technologies change what and how people learn. Informed by the learning sciences, cyberlearning is the use of new technology to create effective new learning experiences that were never possible or practical before.



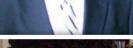
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Represents over 200 separately funded NSF projects







Broadening Participation and Brokering connections.



UNDERSTANDING UNIVERSAL DESIGN FOR LEARNING

UDL is a researchbased framework intended to guide the design of learning technologies that are accessible..



CYBERLEARNING 2016: DESIGNING FOR DEEPER. **BROADER, AND MORE EQUITABLE** LEARNING

January 25-26, 2016 at the Westin Arlington Gateway Arlington



ENABLING COLLABORATIVE SCIENCE LEARNING



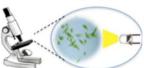
INTERACTIVE BIOTECHNOLOGY WITH INGMAR **RIEDEL KRUSE**

Thursday, November 5, 2015 from 12-1 pm Pacific Time / 3-4 pm Eastern Time If you...



CIRCL NEWSLETTER -ISSUE 13, SEPTEMBER 2015

CIRCL News It's back to school time, and at CIRCL, we're thinking about our A, B,...



MAKING MICROBIOLOGY **INTERACTIVE AND AVAILABLE TO**

LEARNING



CIRCL NEWSLETTER -



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HOW TO USE DIA2 TO

Innovating Pedagogy '15 (50,000 downloads!)





Innovating Pedagogy 2015

Exploring new forms of teaching, learning and assessment, to guide educators and policy



Ten Pedagogies

- **Crossover Learning**
- Learning through Argumentation
- **Incidental Learning** 3.
- Context-based Learning
- Computational 5. **Thinking**

Innovating Pedagogy '15 (50,000 downloads!)

SRI Education



Innovating Pedagogy 2015

Exploring new forms of teaching, learning and assessment, to guide educators and policy makers

Mike Sharples, Anne Adams, Nonye Alozie, Rebecca Ferguson, Elizabeth FitzGerald, Mark Gaved, Patrick McAndrew, Barbara Means, Julie Remold, Bart Rienties, Jeremy Roschelle, Kea Vogt, Penise Whitelock I ouise Yamali

Open University Innovation Report 4



Ten Pedagogies

- Remote Scientific Labs
- 7. Embodied Learning
- 8. Adaptive Teaching
- Analytics of Emotion
- 10. Stealth Assessment

2015 SDI International

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Photocredits: www.treehugger.com

Developed By David Chan

Chemistry Teacher/Technology Coordinator

Investigating the Safety of Nuclear Energy Using Real Radioactivity Data

STUDENT PAGE

iLab: Radioactivity iLab

In this lab, you can explore how radioactive radiation changes as a function of distance. This curriculum sets the Radioactivity iLab in the context of nuclear energy, and asks you to consider:

How safe is it to live next to a nuclear reactor?

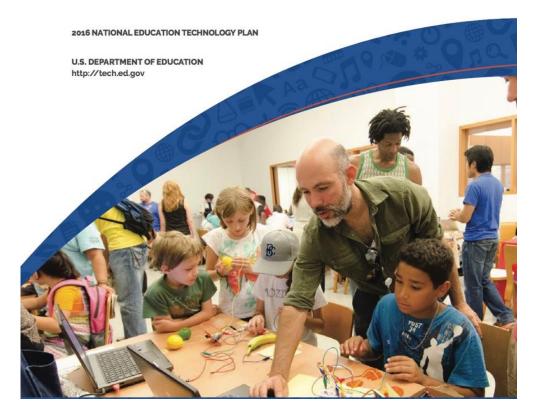
National Educational Technology Plan '16

Includes section on Cyberlearning (p. 16)



Future Ready Learning

Reimagining the Role of Technology in Education



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Thanks!

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