

Agenda

Welcome and Introductions (30 minutes) – Kemi Jona

Demonstrations (1 hour) – Browse around and talk with the developers!

Demo	Presenters	Description
AP Biology and Physics KC Distance Learning www.kcdistancelearning.com	Leanne Stapleton Manager of Secondary Education Programs Miki Merritt Rebecca Earnshaw	Two of our AP courses – AP Biology and AP Physics – just got full authorization from the College Board. These courses will be demoed as well as how we've improved the incorporation of these labs within our program.
Discovery Education Science: 21st-Century Learning www.DiscoveryEducation.com	Bill McDonald Curriculum Director	Discovery Education Science gives you dynamic, up-to-date, high-quality content in a flexible online format. Engage student minds with science while reinforcing important literacy and mathematics skills. Organized around an inquiry framework and covering Physical, Earth and Space, and Life Science, Discovery Education Science is a digital resource library designed to encourage exploration, stimulate critical thinking, and deepen understanding of science.
Math and Science with ExploreLearning Gizmos ExploreLearning http://www.explorelearning.com	Aaron Ingold	ExploreLearning offers a catalog of modular, interactive simulations in math and science for teachers and students in grades 3-12 called Gizmos. Come explore concepts ranging from basic earth and space, life science and physical science to biology, chemistry and physics. Gizmos provide students with opportunities for guided exploration, helping them to build a solid understanding of scientific concepts and demonstrate learning.
iLabs (Remote online labs) Northwestern University www.ilabcentral.org	Julia Barnathan Curriculum Developer	Wondering how to offer “hands on labs” in your online science course? iLabs allows students to run experiments on real equipment (not simulations) via their web browser. Come see a demo of our online Geiger Counter lab that is being used in high school physics courses. Applications to chemistry, biology, and math/statistics are also highlighted.
Late Nite Labs (Chemistry Lab Simulations) www.latenitelabs.com	Chaim Forst, Jonathan Ackerman, David Jaffe	Late Nite Labs virtual lab simulations for Chemistry and Biology enhance science education. Perform life-like experiments from your internet browser anytime, anywhere.

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PhET Interactive Simulations University of Colorado phet.colorado.edu	Wendy Adams Co-Director	PhET Interactive Simulations is an ongoing effort to provide an extensive suite of simulations to improve the way that physics, chemistry, biology, earth science and math are taught and learned. The simulations are interactive tools that enable students to make connections between real life phenomena and the underlying science that explains such phenomena.
Smithsonian Education Online Learning http://www.smithsonianeducation.org	Stephanie Norby , Director of Smithsonian Center for Education and Museum Studies Darren Milligan Senior Media Designer and Webmaster	The Smithsonian Institution is offering engagement with Smithsonian experts and their research. This demonstration will feature resources from the Smithsonian's Education Online Conference on Climate Change. Focusing on the work of Scot Wing, a paleobiologist researching climate change 55 million years ago, participants will see demonstrations of research collections, online simulations, virtual presentations, videos from the field, and lesson plans. This is a case study of how museum resources could engage students in actual research and how these modules can be integrated into courses.
Watershed Dynamics (GIS) Northwestern University	Colleen Buzby Curriculum developer	Watershed Dynamics consists of 2 activities (each 1-2 weeks) where students utilize geographic information systems (GIS) to access and analyze scientific datasets on precipitation, evaporation, streamflow, and human impacts on land use. Ideal for earth and environmental sciences courses.

Professional Development Sessions (2.5 hours) – Pick one session for in-depth training!

Tool	Presenters	Description
Discovery Education Science: 21st-Century Learning www.DiscoveryEducation.com	Bill McDonald Curriculum Director	Learn how to integrate Discovery Education Science into your online curriculum and make science come alive. Discovery Education Science gives you dynamic, up-to-date, high-quality content in a flexible online format. Bring science to your virtual classrooms anywhere, anytime. Discovery Education Science is a digital resource library designed to encourage exploration, stimulate critical thinking, and deepen understanding of science. Participants receive a 2-month free trial to the site.
iLabs (Remote online labs) Northwestern University www.ilabcentral.org	Julia Barnathan Curriculum Developer	iLabs allows students to run experiments on real equipment (not simulations) via their web browser. Learn how to integrate this online radioactivity lab into your high school physics course. Applications to chemistry, biology, and math/statistics are also highlighted.
Late Nite Labs www.latenitelabs.com	Chaim Forst, Jonathan Ackerman, David Jaffe	Late Nite Labs virtual lab simulations for Chemistry and Biology enhance science education. Perform life-like experiments from your internet browser anytime, anywhere.
PhET Physics Simulations University of Colorado phet.colorado.edu	Wendy Adams Co-Director	PhET Interactive Simulations is an ongoing effort to provide an extensive suite of simulations to improve the way that physics, chemistry, biology, earth science and math are taught and learned. The simulations are interactive tools that enable students to make connections between real life phenomena and the underlying science that explains such phenomena.
Watershed Dynamics (GIS) Northwestern University	Colleen Buzby Curriculum developer	Watershed Dynamics consists of 2 activities (each 1-2 weeks) where students utilize geographic information systems (GIS) to access and analyze scientific datasets on precipitation, evaporation, streamflow, and human impacts on land use. Ideal for earth and environmental sciences courses.