NCN Workshop on Simulation-Based Learning: Exploring Semiconductors, Nanoelectronics, and Beginning Chemistry

Workshop Attendees

Back row (left to right): Shaikh Ahmed, Vladimir Gavrilenko, Mihai Dimian, Baudilio Tajerina, Ron Cosby, Scott Sinex, Arturo Ayon, Gerhard Klimeck, Claudia Luhrs, Tomekia Simeon, Tanya Faltens.

Front row (left to right): Franklin Nkansah, Suely Black, Hasina Haq, Sean Brophy, Krishna Madhavan, Stella Quinones, Alejandra Magana, Randy Libros, Edmund Ndip, Shueh-Ji Lee.

Not pictured: Dragica Vasileska, George Adams.

Photo by George Adams.
Workshop attendees will:

• employ the “How People Learn Framework” to design effective student learning experiences using www.nanoHUB.org;

• identify opportunities and the issues that attend the use of simulations in learning situations;

• identify how best to utilize nanoHUB.org in your curriculum; and

• identify how faculty have successfully incorporated nanoHUB.org into their curricula.

The workshop will include hands-on experience with semiconductor simulation tools on nanoHUB and discuss proven practices for using nanoHUB resources to reach classroom goals.

**FINAL Workshop Agenda**

November 5, 2009 – Meetings at the Conference Hotel

1:00 – 5:00pm  Participants arrive at the Hotel
5:30 – 6:15pm  Registration
6:15 – 6:30pm  Setup, Getting Settled In
6:30 – 7:30pm  General Introduction to the Goals of the Workshop

**Ice Breaker**

7:30pm – Open

**Networking**

November 6, 2009 – Meetings at the Big 10 Conference Center

Shuttle from Hotel to Big 10 Conference Center at 7:45am. Please check out of hotel before you board the shuttle.

8:00 – 8:30am  Breakfast
8:30 – 8:45am  Welcome, Overview: Backwards Design for Instruction
8:45 – 9:15am  Focus on Learning Objectives
9:15 – 10:00amPeer Case Studies
10:00 – 10:30amHow People Learn: Theory and Practice
10:30 – 10:45amBreak
10:45 – 11:15amEvidence of Learning

Focus on Assessment
11:15 – 11:45am  Refining and Revisiting Learning Objectives
11:45 – 12:30pm  Broad Introduction to nanoHUB Content
                  Exchanging nanoHUB Resources
12:30 – 1:00pm    Lunch
1:00 – 2:30pm     Designing your Learning Activities and Assessments
2:30 – 3:00pm     Share and Compare
3:00 – 3:15pm     Break
3:15 – 4:30pm     Finalize Implementation Plan and Wrap-up
4:30pm            Adjourn – Travel to Airport

Participants – please ensure you can stay for the entire duration of workshop when you plan to travel.

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Participant Survey
Please take the time to share your thoughts!

Please take the time to share your thoughts and experiences and help us better understand how to use computational simulations as learning tools.

Please respond to a short questionnaire by clicking on your name. The information you will provide to us will be very useful to identify how nanoHUB is being used for educational purposes. We are interested in learning more about your instructional approaches for incorporating nanoHUB simulation tools as part of the classroom activities.

Thank you.

Michael Awaah
Mihai Dimian
Shueh-Ji Lee
Randly Libros
John Attia
Franklin Nkansah
Arturo Ayon
Edmund Ndip
Ram Mohan
Scott Sinex
Claudia C. Luhrs
Tanya Faltens
Jean Andrian
Dragica Vasileska
Ron Cosby