

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

### NCN Workshop on Simulation-Based Learning

#### Workshop Attendees



Photo by George Adams.

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.

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November 5 – 6, 2009

Big Ten Conference Headquarters and Meeting Center

Chicago, IL

[ncn\\_education\\_workshop\\_nov\\_2009\\_part1.pdf](#) (2 MB, uploaded by Krishna Madhavan 1 decade 4 years ago)

Workshop attendees will:

- employ the “How People Learn Framework” to design effective student learning experiences using [www.nanoHUB.org](http://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
<b>Ice Breaker</b>	Group Dinner
7:30pm – Open	
<b>Networking</b>	

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 – 10:00am	Peer Case Studies
10:00 – 10:30am	How People Learn: Theory and Practice
10:30 – 10:45am	Break
10:45 – 11:15am	Evidence 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 travel

### 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](#)