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

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.
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>1:00 – 5:00pm</td>
<td>Participants arrive at the Hotel</td>
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<tr>
<td>5:30 – 6:15pm</td>
<td>Registration</td>
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<tr>
<td>6:15 – 6:30pm</td>
<td>Setup, Getting Settled In</td>
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<tr>
<td>6:30 – 7:30pm</td>
<td>General Introduction to the Goals of the Workshop</td>
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<tr>
<td>7:30pm – Open</td>
<td>Group Dinner</td>
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**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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 – 8:30am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:30 – 8:45am</td>
<td>Welcome, Overview: Backwards Design for Instruction</td>
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<tr>
<td>8:45 – 9:15am</td>
<td>Focus on Learning Objectives</td>
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<tr>
<td>9:15 – 10:00am</td>
<td>Peer Case Studies</td>
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<tr>
<td>10:00 – 10:30am</td>
<td>How People Learn: Theory and Practice</td>
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<tr>
<td>10:30 – 10:45am</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 – 11:15am</td>
<td>Evidence of Learning</td>
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<td></td>
<td>Focus on Assessment</td>
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NCN WORKSHOP ON SIMULATION-BASED LEARNING: EXPLORING SEMICONDUCTORS, NANOELECTRONICS, AND BEGINNING CHEMISTRY

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
- 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