



Issue Six

Datta offers nanoelectronics courses online

Thought leader Supriyo Datta is teaching two courses this spring on nanoHUB.org, presenting his work on the fundamentals of nanoelectronics. The introductory course is underway, and registration is open for Fundamentals of Nanoelectronics, Part 2, which will cover quantum models. Part 2 begins March 19. The course is designed for engineers, academics, graduate students, and others who need to understand both the basics and the latest developments in the field. [Read more](#)



Paper receives Honorable Mention from the ACM Gordon Bell Prize Committee

The ACM Gordon Bell Prize Committee awarded Honorable Mention to a paper authored by nanoHUB.org members titled, "Atomistic Nanoelectronics Device Engineering with Sustained Performances Up to 1.44 PFlop/s."



Authors Mathieu Luisier, Purdue University; Timothy Boykin, University of Alabama in Huntsville; Gerhard Klimeck, Purdue University, and director, Network for Computational Nanotechnology; and Wolfgang Fichtner, Integrated Systems Laboratory, Zurich, Switzerland, were recognized at the SC11 conference in Seattle, Washington, on Nov. 17, 2011. [Read more](#)

Undergraduate students develop research tools and learn more than programming

Thousands of researchers have run simulations on nanoHUB.org with tools developed by undergraduate students through Purdue University's summer research programs. Since 2003, over 120 undergraduate students have been mentored by faculty and graduate students involved in the Network for Computational Nanotechnology at Purdue.

With their curiosity sparked by video games or high school physics, program participants found working on nanoHUB helped them develop as scholars and professionals. Matteo Mannino, AI and computer vision research engineer at the Toyota Technical Center in Ann Arbor, Michigan; Victoria Savikhin, a senior at Purdue University; and Marcela Meza, a graduate student at the University of Texas at El Paso, say they have benefitted in lasting ways. [Read more](#)



Simulations inspire teaching and learning

The Nano Biophotonics Summer School (NBSS) at University of Illinois at Urbana-Champaign last year incorporated nanoHUB.org resources and inspired both students and instructors.

Simulations used during the ten-day program impressed Corneliu Rablau, assistant professor of applied physics at Kettering University in Flint, Michigan. "I take home with me valuable tools that I will be able to use with my undergraduate students in everyday classes," he said. [View video](#)

Program participants used the nanoHUB Optics Lab, Nanofilm Lab, Nanoparticle Quantitative Lab, Nanoparticles Array Lab, and Optical Beam Focusing System. Lectures from the NBSS 2011 program are published on nanoHUB. [Read more](#)

NEW RESOURCES

Users published over 130 new presentations, articles, and more on nanoHUB.org in the past three months, including two new tools:

- [XPS Thickness Solver](#): helps the user to determine the thickness of an overlayer material from XPS experiment data

- [Bio Photonics Simulator](#): simulates passage of light through biological tissue using FDTD

[More new resources](#)

UPCOMING EVENTS

March 29: Richard Stallman, "The Free Software Movement and the GNU/Linux Operating System" — Seminar at Purdue University
[Read more](#)

May 21-June 1: University of Illinois 2012 Biophotonics Summer School — Conference on biomolecular sensing, nanoprobe, nanoscopy, nanoplasmonics, and more at University of Illinois at Urbana-Champaign
[Read more](#)

KNOWLEDGE BASE

View the most popular and most recent articles or find information on dozens of nanoHUB.org topics, from tools for collaboration to troubleshooting. [Click here](#)

LINK TO US

Visitors to your home page and blog will appreciate an outbound link to nanoHUB.org, now with over 230 simulation tools and additional resources for research, learning, and collaboration. Six button designs are available. [Click here](#)

IN THE NEWS

HPCWire — Cornell receives IDC Innovation Award for MATLAB-powered research: The Cornell Center for Advanced Computing was recognized for enabling hepatitis C virus research on a remote experimental MATLAB computing resource, which was accessible through nanoHUB.org. [Click here](#)

SHARE

Support for sharing presentations and results

As part of its expanding array of services, nanoHUB.org offers free editorial review, upon author request, of any material prepared for publication on the site.

nanoHUB's editorial team, which comprises PhD candidates from a variety of disciplines, reviews materials for editorial style, correctness and readability of presentations, papers, and tool documentation.

"As nanoHUB continues to expand its service offerings, and as the nanoHUB universe continues to expand, we felt it was important for our customers to have access to editorial services to help maintain a high level of clarity and readability of materials," says Lynn Zentner, technical director, nanoHUB.

For details on editorial services, contact Zentner at contact@nanohub.org.



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