



Nanotechnology simulation and more.
Always on, around the globe.

Issue 9

nanoHUB-U Courses on edX

Through a new partnership between Purdue University and edX, nanoHUB-U will begin offering a variety of nanotechnology courses on the massive open online course (MOOC) provider/online learning platform.



In the spring of 2015, nanoHUB-U will release two courses on edX. The first course, Organic Electronic Devices (OED), is taught by Chemical Engineering Professor Bryan Boudouris. The 5-week course begins February 12th and is currently open for [registration](#).

As the OED course wraps up in late spring, Professor Supriyo Datta, Thomas Duncan Distinguished Professor of Electrical and Computer Engineering, will teach the second nanoscience course, which will cover key concepts in fundamentals of nanoelectronics and mesoscopic physics developed in the last 20 years.

The NCN team is excited about this opportunity to bring nanotechnology education to the edX platform. So far over 700 students have signed up for the OED course and the number of registrations is increasing daily. "The Purdue-edX partnership offers nanoHUB-U an opportunity to bring the new insights and understanding emerging from research on nanotechnology to an even larger global community of students and working engineers and scientists," said Mark Lundstrom, Founding Director and Don and Carol Scifres Distinguished Professor of Electrical and Computer Engineering.

Got nanos?



The nanoHUB store has been updated with some awesome new items. If you have a bunch of accumulated nano-points just sitting there, you might want to check out the [store](#). Items include new t-shirt designs, chalk mugs, jackets, Bluetooth speakers, and much more!

Don't have enough nano-points? No Problem - getting nanos is easy. All you have to do is contribute some high-quality resources! Royalties are earned on resources that, through a variety of measures, are found to be of value to the community.

- Animations
- Papers
- Tools
- Teaching Materials
- Presentation Materials
- Online presentations

Don't have anything to contribute just yet? That's OK. By sharing your knowledge and [answering questions](#) posted by other members, you can earn nano-points.

Be sure to follow us on social media ([Twitter](#) & [Facebook](#)) to get instant updates regarding new merchandise!

For more information about contribution [click here](#)

[How do I check my nano-points balance? Click here](#)

[Go to nanoHUB store](#)

Announcements



We are proud to announce that nanoHUB was highlighted by a US President's document in the Materials Genome Initiative (MGI) Strategic Plan - [see page 13](#)



With the holidays just around the corner, we lifted the "limited to one per person" restriction so you can give nanoHUB goods as gifts this year. [Shop away!](#)

Upcoming Events

[ACN: Asian Conference on Nanotechnology](#)

When: December 16 - 17

Where: Kuala Lumpur, Malaysia

Featured Tools

[NanoPlasticity Lab](#)

A phase field approach to plastic deformation in nano crystalline materials

[Magnetic Tunnel Junction Lab](#)

Calculate resistance, tunneling magneto resistance, spin torques, and switching characteristics of a magnetic tunnel junction

[Exciton Dynamics Simulator](#)

Simulate the exciton dynamics in organic photovoltaic devices

[MSL Simulator](#)

Easy-to-use interface for designing and analyzing electronic properties of different nano materials

[Periodic Potential Lab](#)

Solve the time independent Schrodinger Equation in a 1-D spatial potential variation

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