Issue 58

Stay informed about what's happening on nanoHUB! Check out our new resources, semiconductor engineering news and more, below.

New Resources on nanoHUB

Silvaco TCAD now on nanoHUB

Silvaco's TCAD software is now available to use for free for educational purposes on nanoHUB! This powerful tool provides semiconductor process and device simulation. With a nanoHUB account, the online compute resources are provided to you free of charge, and no software installation is needed. **Click here to run the tool** in nanoHUB.

A few benefits of TCAD include the ability to visualize internal physical processes, design technology co-optimization (DTCO), virtual experimentation, and the ability to communicate device complexities clearly.

Learn more by visiting the **Silvaco User Group page** on nanoHUB. Join the group to become a part of the Silvaco TCAD community on nanoHUB.

Back to School Webinar Series

Thank you for making our **Back to School Series** a huge success! This series included eight live webinars with faculty sharing how they use nanoHUB tools in their classes. As the recordings become available, you can find them on the **Back to School Webinar Series on Teaching with nanoHUB page.** Follow along by running the tools, and find slides and other documents under the *Supporting Docs* tab of each resource.

The nanoHUB team is happy to provide assistance to faculty who are interested in incorporating nanoHUB simulations in their courses. Please reach out via our ***Contact Us form***.

NACK Topical Educator Seminar Series

The **NACK Topical Educator Seminar Series** dives into select nanotechnology topics, including resources and tips on how to share these ideas with students. The series consists of 16 self-contained topics split between March-April and September-October. Though targeted for undergraduate studies, off-line discussions may include ways to adapt to a variety of academic levels.

Check out the **series page** to view the topics and corresponding presentations.

Semiconductor News

Purdue University to expand Semiconductor Education

Purdue University, the home of nanoHUB, is working to rapidly expand chip education to meet the growing demand for semiconductor engineers in the United States. To meet this demand, Purdue has developed new undergraduate courses and labs, a new masters program, and is pushing to place students in chip internships during their first few years of college - with a goal to graduate 1,000 semiconductor engineers annually.

nanoHUB is ready to help take on this challenge with our online semiconductor workforce resources. View these free resources on our **Semiconductor Workforce Development page**.

Learn more about **how Purdue is working to fill the workforce gap**.

nanoHUB Updates

New Password Requirements for nanoHUB Accounts

Beginning **Friday, November 4, 2022**, nanoHUB account password requirements will be changing. This change will help ensure that you have a strong password to protect your nanoHUB account.

The biggest change will be the required password length. New nanoHUB passwords will need to be 12 characters or longer. If your account is affected, you will be prompted to change your password the next time you log in to nanoHUB. At that time, you can view the full list of requirements.

Please keep this in mind if you have an upcoming presentation or will be teaching with nanoHUB. Make sure to log in and change your password in advance.

If you have any questions about these updates, please **submit a ticket here**.

Upcoming scheduled Maintenance on nanoHUB

We will be releasing a new code update to nanoHUB soon. Please note that beginning at **11:00 AM on Friday, November 4, 2022** users can expect downtime for most of the day. All running tool sessions will expire during the maintenance window, please plan accordingly.

Do you have a suggestion or nanoHUB success story you'd like to share? Use our Contact Us form and you may see your submission in a future newsletter!

How can you support nanoHUB? Check out our donation page to learn more.

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