Issue 65

Stay informed about what's happening in the nanoHUB community. Explore upcoming events, community news, new resources, and more!

Upcoming Events

Exploring the Nano World: Building Nanoscale Structures with Polymer Modeler

Date and Time
Friday, June 9, 2023 from 2:00 - 3:00 PM EDT

During this talk, **Dr. Tongtong (Tanya) Shen** will showcase how atomic-level simulations can lead to a more fundamental understanding of polymer crystal structures and guide you through an interactive **Polymer Modeler** tutorial powered by nanoHUB.

Register Here

53rd Midwest Theoretical Chemistry Conference

nanoHUB is proud to be a sponsor of the 2023 Midwest Theoretical Chemistry Conference (MWTCC)! This event brings together some of the brightest minds in theoretical chemistry from across the Midwest and beyond.

The conference will be held at Purdue University from Thursday, June 1 through Saturday, June 3, 2023.

Drs. Mike Reppert of Purdue University and Tanya Faltens of nanoHUB will be giving a pre-conference talk on Thursday, June 1, that will highlight how nanoHUB custom-built GUIs can support complex research workflows and make computational chemistry codes more accessible to students. To learn more and register, visit **www.purdue.edu/conferences/53MWTCC**.

Journal of Advanced Technological Education Writers Group Presentation

The Journal of Advanced Technological Education (J ATE) is a fairly new peer-reviewed publication that promotes publications by and for educators who are interested in teaching advanced technologies and technician education. This includes 2-year community college faculty, undergraduate researchers, STEM educators in grades K-12, university faculty, as well as industry personnel.

J ATE invites you to attend their Friday, May 26 interview at 3:00 PM EDT, where published author, Ismail Fidan, and his colleagues April Cheung, Venancio Fuentes, and, Martin Reed will discuss their paper, *Overview of ABET Accreditation from the Perspective of Two-Year Programs*.

There is no fee to attend. Learn more and find the Zoom link at **micronanoeducation.org/event/j-ate-writers-group-presentation**.

2023 Multicell Virtual-Tissue Modeling Online Summer School and Hackathon

Registration is now open for the 2023 Multicell Virtual-Tissue Modeling Online Summer School and Hackathon at Indiana University, Bloomington, taking place July 31 to August 13, 2023.

Learn to model your biological system of interest with one-on-one help. Following a week of CompuCell 3D (CC3D) basics, and a week of advanced topics in CC3D, the workshop culminates with a 2-day model-building hackathon where physicists, biologists, computer scientists, and modelers team up to build research-grade models of biological systems. All experience levels are welcome.

For more information, email **compucell3d.iu@gmail.com** or visit **www.compucell3d.org/Workshop23**. Register at: **www.tinyurl.com/CC3D2023**.

Science Gateways 2023 Annual Conference

Call for Participation
Join the Science Gateways Community for their annual Gateways Conference, held Monday, October 30 - Wednesday, November 1, 2023 in Pittsburgh.

Gateways 2023 is an opportunity for people working with science gateways to showcase their ability to teach, empower and engage research, and provide technologies to various communities. There will be diverse options for sharing work and networking. The format includes tutorial sessions, presentations, panels, posters, demos, and a BYOP - Bring Your Own Portal.

Submissions of papers and abstracts are currently being accepted. The deadline for presentations, demos, panels, and tutorials is June 5, 2023, and BYOP and poster submissions are due August 7, 2023. Find out more, including submission timeline and instructions by visiting **sciencegateways.org/gateways2023-cfp**.

FacultyHack@Gateway2023
The Faculty Hackathon at Science Gateways 2023 will involve five teams of two Computer Science faculty or one Computer Science and one related discipline area faculty.

Faculty teams will adapt High-Performance Computing (HPC) tools for use in their courses. They will leave with "ready-to-go" course outlines, supporting data, and identified resources. Each team will be assigned a technical mentor to help with this process. Teams completing all four challenges receive a $1000 honorarium.

Learn more and apply here: **sciencegateways.org/faculty-hackathon-2023**.

Community News

Fast Company: Rebuilding a critical American industry

In **this article by Fast Company**, Purdue University president, Mung Chiang, shares how Purdue's new Semiconductor Degrees Program is reshaping the future of American semiconductor innovation.

We are proud to be a part of this important initiative. Learn more about how nanoHUB is helping to train the next generation of semiconductor engineers and researchers, including our tools for chip design at **chipshub.org**.

400,000 Registered nanoHUB Accounts

Our ever-growing nanoHUB community recently hit an exciting milestone of 400,000 registered accounts! The lucky 400,000 account was created by an undergraduate student from Columbia.

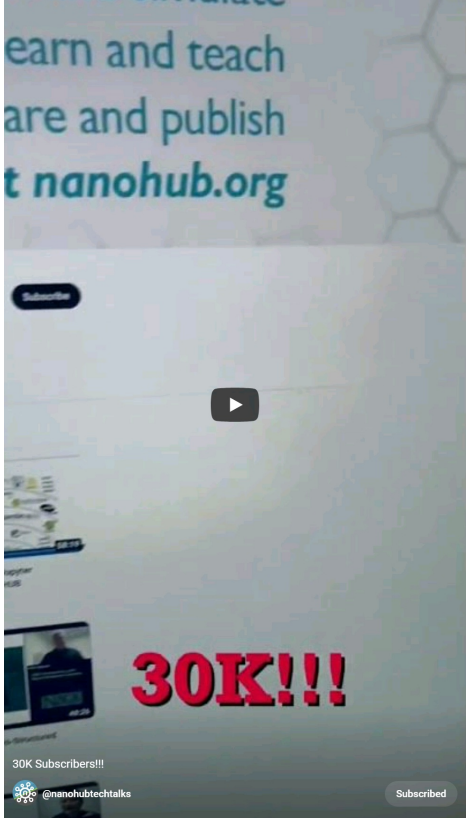
We are grateful that each learner, educator, researcher, and industry professional who joins nanoHUB provides a new and unique perspective to our community. We are happy to have you here! Please feel free to reach out to us anytime with questions, comments, wishes, etc at **contact@nanohub.org**.

nanoHUB on YouTube

The **nanoHUB YouTube** channel has reached 30,000 subscribers!

Thank you to everyone who has liked, commented, and subscribed to our channel. We are grateful for your support. YouTube has helped us make science and engineering educational materials more accessible to everyone, and we will continue producing high-quality educational content on nanoHUB.

If you like our work, please **subscribe to our channel**.



Upcoming Schedule Maintenance

nanoHUB will undergo scheduled maintenance on Wednesday, May 31, 2023, beginning at 11:00 a.m. EDT | 8:00 am PDT. The platform will operate normally for most of the day, except for a short outage period. All running tool sessions will expire during the maintenance window, please plan accordingly and close out any open tool sessions ahead of time

New on nanoHUB

Student Projects from Dr. James Glazier's Virtual Tissue Modeling Course

This set of new resources are student projects from Dr. James Glazier's Virtual Tissue Modeling course. Each of the projects is published in nanoHUB.

Pluripotent Stem Cell Dynamics: In-silico model of organoids from human pluripotent stem cells (hPSC), replicated from experiment using CC3D. Authors: Jung Hyun Park, Elmar Bucher, & Jonathan Ott.

Quorum Sensing Inhibiting Drug Simulation: A simulation of quorum sensing bacteria in the presence of a QS inhibiting drug. Authors: Logan Geyman & Nicolas Riina. text

Zebra Fish Stripe Formation: Simulates formations of zebra fish stripe patterning of cell. Authors: Mike Randall, Ibraheem Farooq, Carmen Hernandez, Hayden Moore

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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!

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