



National Nanotechnology Coordinated Infrastructure

NNCI 2022 Annual Conference

October 19 – 21, 2022

Cornell University

Wednesday, Oct. 19 NNCI Pre-Conference and Welcome (Duffield Hall, DH)

11:30 – 12:30 pm Pick up a box lunch in Baum Atrium, Duffield Hall

12:30 – 2:00 pm Education and Outreach Coordinators Meeting (340 DH)

2:15 – 3:45 pm Innovation and Entrepreneurship Meeting (340 DH)

4:00 – 5:30 pm Annual SEI Meeting (340 Duffield Hall)

**5:30 – 9:00 pm Welcome Reception & Dinner at the
Johnson Museum of Art, Cornell campus**

There will be a day-long concurrent Corporate Sponsor Trade Show in the Duffield Hall Atrium. (Participating companies: GenISys Inc, Heidelberg Instruments Inc, JEOL USA Inc, NILT US Inc, Raith America Inc, ReynoldsTech, and SÜSS MicroTec)

Thursday, Oct. 20 NNCI Annual Conference (Biotechnology Building G10)

8:00 – 8:30 am Registration & Hot Breakfast Buffet (Biotech Foyer)

8:30 – 8:45 am Conference Welcome and Overview (CNF Directors)

8:45 – 9:00 am Larry Goldberg (NSF)

9:00 – 9:15 am Branden Brough (NNCO)

9:15 – 10:15 am NNCI Coordinating Office Report (Oliver Brand)

10:15 – 10:45 am *Networking Break (Think About the Chips Act)*

10:45 – 11:45 am **NNCI Associate Director Reports
(Hull, Gottfried, Naeemi, Wetmore)**

11:45 am – 12:15 pm Group Photograph (Biotech Courtyard)

12:15 – 12:30 pm *Networking Break & Travel Time (Think About
the Cross-Pollination of NNCI, NNCO, and NSF)*

12:30 – 1:45 pm *Lunch in Statler Hotel Ballroom*

1:45 – 2:00 pm *Networking Break & Travel Time
(Think About Workforce Development)*

Workforce Development Program (Biotechnology Building G10)

2:00 – 2:10 pm **Welcome to Workforce Development (CNF Directors)**

2:10 – 2:40 pm **Invited Speaker (Om Nalamasu, Applied Materials)**

2:40 – 3:00 pm **Invited Speaker (Michelle Williams-Vaden, Semi)**

3:00 – 3:20 pm **Invited Speaker (Griselda Bonilla, IBM)**

3:20 – 3:30 pm *Break (and panel setup)*

3:30 – 4:45 pm **Panel Discussion: Education Needs, Equipment Needs
for Teaching, Workforce Development with Community
Colleges, Diversity in the Student Body, Veterans, Etc.**

5:00 – 6:00 pm *CNF Cleanroom Tour (Duffield Hall)*

**6:15 – 9:00 pm Banquet Dinner (Statler Ballroom)
Presentation of NNCI Staff Awards**

Friday, Oct. 21 NNCI Annual Conference (Biotechnology Building G10)

7:00 – 8:30 am *Hot Breakfast Buffet (Biotech Foyer)*

7:30 – 8:30 am *Site Directors Meeting with Coordinating Office
(G01 Biotech)*

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| 8:30 – 9:45 am | Site Reports* and Panel 1: Microelectronics and the CHIPS+Science Act NNI, NNF, TNF, SENIC, Lead: Sanjay Banerjee |
| 9:45 – 11:00 am | Site Reports* and Panel 2: Visions for the Next Network NanoEarth, NCI-SW, RTNN, Stanford, Lead: Jacob Jones |
| 11:00 – 11:15 am | <i>Networking Break</i> |
| 11:15 am – 12:15 pm | Research Community Reports Nanotechnology Convergence (Jacob Jones) Nanoscience in the Earth and Environmental Sciences (Mitsu Murayama) Nano-Enabled Internet-of-Things (Chris Ober) Transform Quantum (Steven Koester) Understanding the Rules of Life (Vinayak Dravid) Microelectronics/Semiconductors (Sanjay Banerjee) |
| 12:15 – 1:15 pm | <i>Buffet Lunch (G01 Biotech)</i> |
| 1:15 – 2:30 pm | Site Reports* and Panel 3: Approaches for Undergraduate Engagement CNS, MONT, SDNI, SHyNE, Lead: David Dickensheets |
| 2:30 – 3:45 pm | Site Reports* and Panel 4: NNCI Impact and How to Measure It CNF, KY Multiscale, MANTH, MiNIC, Lead: Mark Allen |
| 3:45 – 4:30 pm | <i>Networking Break (See “Things to do on Cornell Campus!”)</i> NNCI EAB Private Meeting (G01 Biotech) |
| 4:30 – 5:00 pm | NNCI EAB Oral Report |
| 5:00 pm | Wrap Up and Adjourn Meeting |
| 6:00 pm | <i>Dinner off campus for those interested!</i> |

*** Site reports will address one or more of the following questions:**

1. What new program have you introduced recently? What issue/objective does this program address? What are the benefits of this program?
2. What impactful research emerged from your site during this past year? How can the results of this research be translated and applied?
3. What steps has your site taken to expand access of your site facilities and expertise to underrepresented students, faculty, and research disciplines?
4. What steps has your site taken to reduce the environmental impact of your facilities? How are you tracking these impacts?
5. Do you see potential to accelerate your site's growth? If so, what opportunities do you see? If not, what challenges do you face?
6. How do you measure economic or commercial impact of your site?