The Future of the NNI: A Stakeholder Workshop

August 1-2, 2019
Hilton Washington DC National Mall
480 L'Enfant Plaza, Washington, DC 20024
TENTATIVE AGENDA

The NNI has played a pivotal role in fostering and advancing a dynamic nanotechnology ecosystem in support of the initiative's four goals: advance world-class research, foster commercialization, develop and sustain research infrastructure, and support the responsible development of nanotechnology. Building on this strong foundation, experts across the nanotechnology community will share their perspectives on the key elements required for the nanotechnology enterprise to thrive over the next 15 years.

DAY 1

8:00 – 9:00 am Registration and Coffee

9:00 – 9:20 am Welcome and Introductions Webcast

Session 1: Vision for the Future of the Nanotechnology Enterprise

This session will explore a <u>vision</u> for what nanotechnology R&D can enable over the next 15 years. Based on the ideas discussed in this session, participants will address ecosystem needs to achieve this vision in subsequent sessions.

9:20 – 10:00 am Keynote Webcast

John Rogers, Northwestern University

10:00 – 10:30 am **Break**

10:30 am – 12:00 pm Plenary Discussion Panel Webcast

Moderator: Andrew Schwartz, DOE Norman Scott, Cornell University

Dawn Bonnell, University of Pennsylvania Sudipta Seal, University of Central Florida Alan Seabaugh, University of Notre Dame

12:00 – 1:00 pm **Lunch**

Session 2: Needs Across the Nanotechnology Ecosystem

Breakout sessions to discuss <u>needs</u> to achieve the vision outlined in Session 1. Each breakout session will be primarily discussion-based and address topics provided by workshop organizers.

1:00 – 2:15 pm **Breakout Sessions**

Water & Environment

Moderator: Qilin Li, Rice University

Energy

Moderator: Saniya LeBlanc, George Washington University

Nanomedicine

Moderator: Andre Nel, University of California, Los Angeles

Electronics

Moderator: Qiliang Li, George Mason University

2:15 – 2:30 pm **Break**

2:30 – 3:45 pm	Breakout Sessions
	 Food & Agriculture Moderator: Eric McLamore, University of Florida
	 Sensing/Internet of Things Moderator: Evangelyn Alocilja, Michigan State University
	 Aerospace & Automotive Moderator: Debbie Senesky, Stanford University
	 Infrastructure Moderator: Matteo Pasquali, Rice University
3:45 – 4:00 pm	Break to reconfigure room
4:00 – 5:00 pm	Breakout Session Read-outs Webcast Moderator: Stacey Standridge, NNCO
5:00 – 6:00 pm	Town Hall Discussion Moderator: Lisa Friedersdorf, NNCO

The National Academies of Sciences, Engineering, and Medicine is seeking community input for the quadrennial review of the NNI. The study will analyze the relative position of the United States compared to other nations, identify critical research areas where the United States should be the world leader, and consider if and how the NNI should continue. Please join members of the study committee for a town hall to discuss future directions and opportunities for nanotechnology in the United States in the context of worldwide efforts. In particular, input on the following topics is welcome:

- new or revised goals for the NNI,
- new research areas and technical priorities for the future,
- potential partnerships, coordination, and management mechanisms to advance nanotechnology R&D.

The National Academies will issue a report in 2020 that will provide analysis and recommendations to the NSET Subcommittee of the National Science and Technology Council and NNCO.

8:00 – 8:25 am	Coffee
8:25 – 8:30 am	Day 2 Welcome Webcast
8:30 – 9:30 am	Commercialization Panel Moderator: Matthew Laudon, TechConnect Ventures Leonardo Spanu, Shell Matthew Hull, Virginia Tech and NanoSafe, Inc. Alexis Wells Carpenter, AxNano, LLC Jennifer Shieh, OSTP
9:30 – 9:45 am	Break to reconfigure room

Session 3: Mechanisms to Support Key Ecosystem Needs

This session will reconvene the breakout groups from Session 2 to discuss **mechanisms** to address the previously identified needs. The breakout sessions will be primarily discussion-based and moderated by Federal representatives.

9:45 – 11:00 am **Breakout Sessions**

Water & Environment

Moderator: Nora Savage, NSF

Nanomedicine

Moderator: Piotr Grodzinski NIH

Energy

Moderator: George Maracas, DOE

Electronics

Moderator: Robinson Pino, DOE

11:00 – 11:15 am **Break**

11:15 am – 12:30 pm **Breakout Sessions**

Food & Agriculture

Moderator: Hongda Chen, USDA/NIFA

• Sensing/Internet of Things

Moderator: Eric Forsythe, ARL

Aerospace & Automotive

Moderator: Mia Siochi, NASA

Infrastructure

Moderator: Jonathan Porter, DOT

12:30 – 1:30 pm **Lunch**

1:30 – 2:45 pm **Breakout Session Read-Outs** Webcast

Moderator: Antti Makinen, DOD

2:45 – 3:00 pm **Break**

Session 4: Tying It All Together

Building on the conversations throughout the event, this session will synthesize the key findings to identify potential strategic directions for the NNI.

3:00 – 4:30 pm **Synthesis of Workshop Discussions** Webcast

Moderator: Paul Westerhoff, Arizona State University Quinn Spadola, Georgia Institute of Technology Ahmed Busnaina, Northeastern University

Jeff Nelson, Sandia National Laboratories

4:30 – 4:45 PM Workshop Wrap-Up Webcast