

## SDNI-Hosted NNCI Education Symposium - March 27-28, 2020

### *“Integration of Nanotechnology Contents with Current State-Wide K-12 Science Curricula; Challenges & Strategies”*

#### GENERAL AGENDA

##### Friday, March 27, 2020

**On Invitation Only (special guests and all members of NNCI centers – must RSVP)**

**3:30 pm: Registration**

**4:00 – 5:00: pm Forum:** “Is it possible to devise an NNCI-wide approach to formally integrate Nanotechnology Content into the K-12 Science Curricula for all States?” Facilitator: Yves Theriault

**5:15 – 7:00: pm Dinner**

##### Saturday, March 28, 2020

**Open to Educators & General Public (must be registered to receive Food & Drink coupons)**

**7:30 – 8:45 am:** Registration & Breakfast

**Exhibits: All day from 9 am to 3:20 pm**

**8:45 am – 9:00 am:** Welcome

**9:00 am – 10:50 am:** Presentations/panel discussion

**Break 10:50 am – 11:10 am**

**11:10 am – 12:30 pm:** Presentations/panel discussion

**12:30 – 1:30 pm:** Lunch/photo

**1:30 – 3:10 pm:** Presentations/panel discussion

**3:10 – 3:20 pm:** Concluding Remarks

**3:20 pm:** Adjournment

#### **Presentations Schedule (3/28/2020)**

**8:45 – 9:00** Welcoming Remarks

Yuhwa Lo, SDNI Faculty Director and Professor of Electrical and Computer Engineering, UCSD, La Jolla, CA

Yves Theriault, PhD, PMP, Director, Education Programs and Outreach, SDNI, UCSD, La Jolla, CA

**9:00 – 9:30** Preparation of a globally-aware STEM workforce through the formation of bi-national bridges of collaboration.

Olivia Graeve, Professor, Mechanical and Aerospace Engineering, UCSD, La Jolla, CA

**9:30 – 9:50** “Using Phenomena to Drive NGSS Lessons”

Crystal Howe, NBCT, Science Coordinator, San Diego County Office of Education, San Diego, CA

**9:50 – 10:10** “Would You Care for A Sparkle of Nano with your Bio?”

Lesli Horowitz, Science Teacher, Kearny High School, San Diego, CA

**10:10 – 10:30** “Nanoscience for Teachers and their Students”

Angela Hwang, PhD, Education and Outreach Manager, nano@stanford, Stanford University, Stanford, CA

**10:30 – 10:50** Panel discussion (Panelists: Crystal Howe, Leslie Horowitz, Angela Hwang) Moderator: Yves Theriault

**10:50 – 11:10 Break**

**11:10 – 11:30** "Promoting the importance of nano on a multi-disciplinary scale: A Virginia Tech hosted professional development workshop for high school teachers"

Tonya Pruitt, Assistant Director, National Center for Earth and Environmental Nanotechnology Infrastructure, Virginia Polytechnic Institute and State University, Blacksburg, VA

**11:30 – 11:50** “Digital Curricula and Textbook for Online and Hybrid Nanotechnology Courses”

Marco Curreli, PhD, Executive Director and Founder, OMNI NANO

**11:50 – 12:10** “The California NanoTech 2025 Project”

Yves Theriault, PhD, PMP, Director, Education Programs and Outreach, SDNI, UCSD, La Jolla, CA

**12:10 – 12:30** Panel discussion (Panelists: Yves Theriault, Tonya Pruitt, Marco Curreli, Olivia Graeve) Moderator: Beto Vasquez

**12:30 – 1:30 Lunch Break**

**1:30 – 1:50** "Overview of the National Nanotechnology Initiative's Education Efforts"

Lisa E. Friedersdorf, PhD, Director, National Nanotechnology Coordination Office, Alexandria, VA

**1:50 – 2:10** “Connective Tissue Networks for Nanotechnology Education”

Robert K. Ehrmann, Managing Director, Center for Nanotechnology Education & Utilization (CNEU), NSF National Nanotechnology Applications and Career Knowledge (NACK) Network, Pennsylvania State University.

**2:10 – 2:30:** "Immersive Research Experiences in Nanotechnology—Using the Research Laboratory as a Classroom.”

Michael J. Sailor, PhD, Distinguished Professor, Department of Chemistry and Biochemistry, UCSD, La Jolla, CA

**2:30 – 2:50** "Teacher Professional Development during the NNIN: Lessons learned and resources now at NNCI"

Nancy Healy, PhD., Institute for Electronics and Nanotechnology, Georgia Institute of Technology, Atlanta, GA

**2:50 – 3:10** Panel Discussion (Panelists: Robert K. Ehrmann, Lisa E. Friedersdorf, Mike Sailor, Quinn Spadola, Beto Vasquez. and Oscar Vasquez Mena). Moderator: Yves Theriault.

**3:10 – 3:20** Concluding Remarks

Yves Theriault, PhD, PMP, Director, Education Programs and Outreach, SDNI, UCSD, La Jolla, CA