

NISE NETWORK

Network-Wide Meeting

**Saint Paul, Minnesota
June 3 - 4, 2015**



Mission

The Nanoscale Informal Science Education Network (NISE Net) is a national community of researchers and informal science educators dedicated to fostering public awareness, engagement, and understanding of nanoscale science, engineering, and technology.

Meeting Goals

1

Through networking opportunities, participants will deepen relationships with each other in order to **sustain partnerships** and **explore future collaborations** for public engagement in science, technology, engineering, and math (STEM).

2

Participants will **learn** about educational products and professional development resources they can use to **increase their capacity** to **sustain public engagement** in nano and other current science topics.

3

Participants will have opportunities to **share** their experiences with public engagement in nanoscience, engineering, and technology and **be inspired** by the experiences of other partners.

4

Participants will learn about **new current science content** and **opportunities** for collaboration and public engagement, including the synthetic biology project.

Your Charge

Take the Lead, Use the Tools, Stay in Touch

Welcome to the

Network-Wide Meeting



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Travel and Logistical Information

Visiting Saint Paul

www.visitsaintpaul.com

Museums

These museums are all located within easy walking distance from the meeting hotels:

Science Museum of Minnesota

www.smm.org

Meeting attendees will have the opportunity to visit the Science Museum of Minnesota on Thursday evening.

HOURS:

Sunday, Tuesday, & Wednesday: 9:30am - 5pm

Thursday: 9:30am - 4pm (Social Science in evening)

Friday & Saturday: 9:30am - 9pm

Closed Monday

Minnesota Children's Museum

www.mcm.org

10 West Seventh Street, St. Paul

HOURS:

Tuesday - Thursday: 9am - 4pm

Friday & Saturday: 9am - 8pm

Sunday: 9am - 5pm

Closed Monday

Minnesota History Center

www.minnesotahistorycenter.org

345 W. Kellogg Blvd., St. Paul

HOURS:

Tuesday: 10am - 8pm

Wednesday – Saturday: 10am - 5pm

Sunday: Noon - 5pm

Closed Monday

Taxis

To aid with cab shares we will have a list of airport departure times; hotel staff can arrange a cab. Taxi airport fares are \$31-\$38.

City Wide Cab: 651-487-4100

Airport Taxis: 651-222-0000

Hotels

Meeting attendees will be staying in two hotels. The Science Museum of Minnesota will be arranging for and assigning participants' hotel rooms. The Science Museum of Minnesota will be paying for hotel rooms the evenings of Tuesday, June 2nd, Wednesday, June 3rd, and Thursday, June 4th.

Crowne Plaza St. Paul-Riverfront

11 East Kellogg Boulevard

St. Paul, Minnesota 55101

www.ihg.com/crowneplaza/hotels/us/en/st.-paul/mspsp/hoteldetail

Holiday Inn St. Paul Downtown

175 W 7th St, St. Paul, Minnesota 55102

www.histpaul.com

Showcases

Meeting attendees have the opportunity to share their own projects and activities during dedicated showcase times. Showcase presenters are split into two groups (one group on each day) so that attendees have a chance to see others' work. We will be able to leave most showcase materials set up throughout the entire two days of the meeting

Showcase A:

Wednesday, June 3, 1:30pm – 2:30pm

All ODD numbered posters and tables will be staffed - please see separate showcase lists.

Showcase B

Thursday, June 4, 1:30pm – 2:30pm

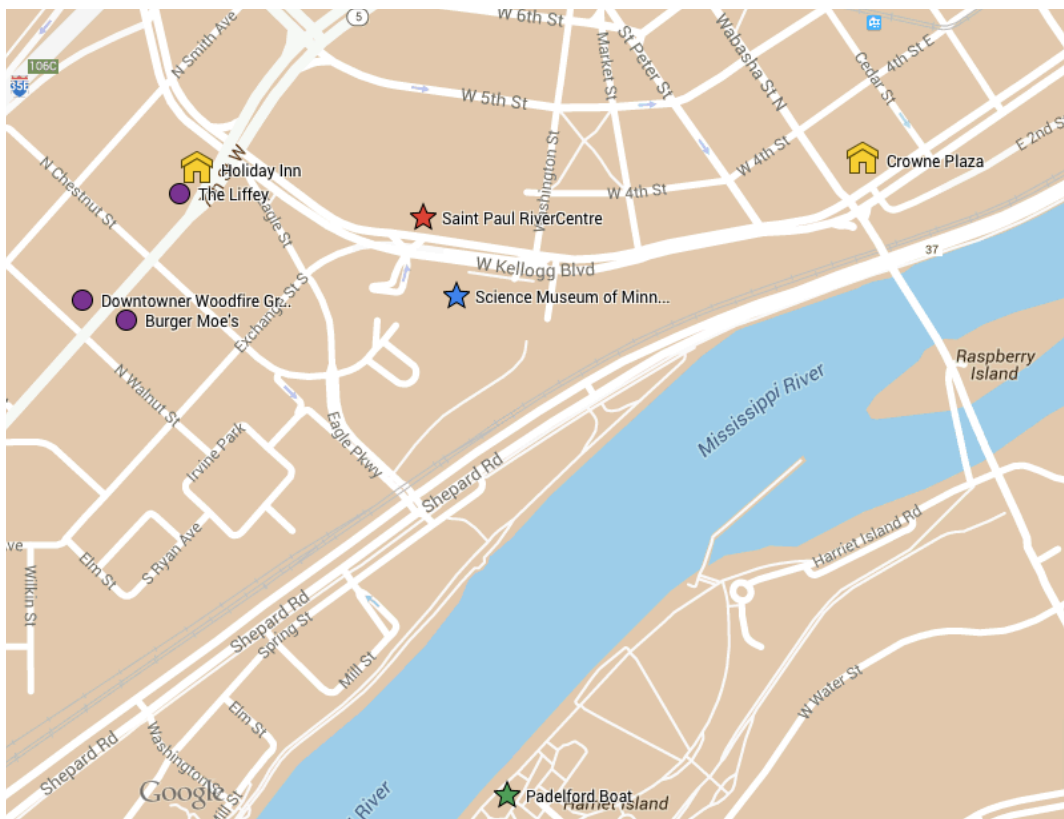
All EVEN numbered posters and tables will be staffed - please see separate showcase lists.

Social Media

Using social media?

Use our hashtag: **#nisenet**

Area Map



Hotels and Meeting Location



Saint Paul RiverCentre - 175 West Kellogg Boulevard



Holiday Inn - St. Paul Downtown, 175 W 7th St



Crowne Plaza - St. Paul-Riverfront, 11 East Kellogg Boulevard

Tuesday Evening, June 2, 2015, 6:00pm – 8:30pm

Informal Pay on your-own drop-by dinner and informal networking at three locations:



Downtown Woodfire Grill, 235 West 7th Street, www.downtownwoodfire.com



Burger Moe's, 242 West 7th Street, www.burgermoes.com



The Liffey Irish Pub, 175 West 7th Street, (adjacent to Holiday Inn Hotel), www.theliffey.com

Wednesday Evening, June 3, 2015, 6:00pm – 9:30pm – Demos & Dinner



Padelford Riverboat Dock - 205 Dr. Justus Ohage Blvd, Harriet Island, boat departs 6:30pm sharp

Thursday Evening, June 4, 2015, 6:00pm – 11:00pm – Dinner & Social Science



Science Museum of Minnesota - 120 West Kellogg Boulevard

Overview Agenda

	Tuesday, June 2	Wednesday, June 3	Thursday, June 4
		RiverCentre	RiverCentre
7:30			
8:00		Breakfast & registration (Showcase set-up time)	Breakfast; Advisory Panel meeting
8:30			
9:00		Plenary: Welcome and Overview	Concurrent Sessions 2
9:30			
10:00		BREAK	BREAK
10:30		Plenary: Future of Nanoscience, Engineering, and Technology	Concurrent Sessions 3
11:00			
11:30			BREAK
12:00			
12:30		Regional lunch In rooms	Lunch & Plenary: <i>Building with Biology</i> project and an Introduction to Synthetic Biology
1:00			
1:30			
2:00		Showcase A	Showcase B
2:30			
3:00		BREAK	BREAK
3:30		Concurrent Sessions 1	Concurrent Sessions 4
4:00			
4:30		BREAK	BREAK
5:00		Plenary	Closing Plenary
5:30			
6:00		Walk or Shuttle to Padelford Shuttle departs 5:45pm sharp	BREAK
6:30			Informal dinner at museum
7:00	Informal networking evening at 3 locations		
7:30		Nano demos and dinner on Padelford Boat departs 6:30pm sharp	
8:00			
8:30			
9:00			
9:30			
			<i>Social Science</i> at Science Museum of Minnesota

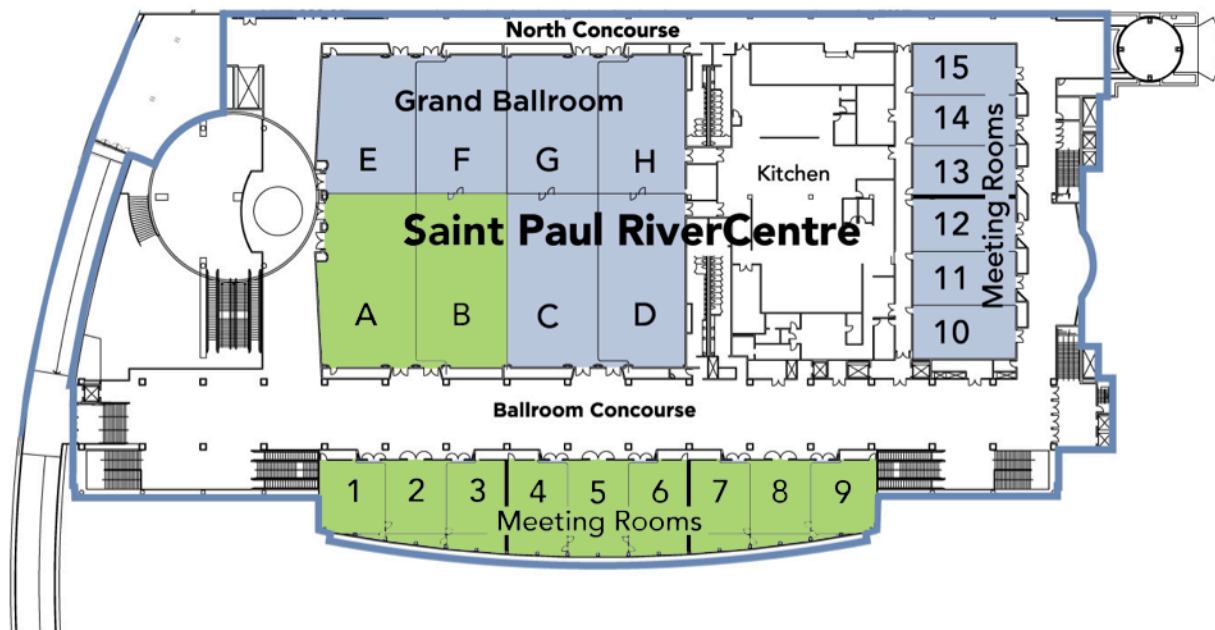
Please see pages 8-12 for exact times and locations

RiverCentre Floor Plan

RiverCentre

2nd Floor

Use entrance on West Kellogg Boulevard



Registration and Showcases take place in the Ballroom Concourse areas

Plenary sessions take place in Ballroom A & B (shaded green on the map)

Concurrent sessions and Regional lunches take place in Rooms 1-9 (shaded green on the map)

Wednesday, June 3rd

RiverCentre, 2nd floor

Plenary sessions take place in Ballroom A & B

7:30am – 9:00am	Registration & Showcase set-up time Breakfast (Ballroom A & B)
9:00am – 10:00am	Plenary: Welcome and Overview (Ballroom A & B) Larry Bell, Museum of Science Paul Martin, Science Museum of Minnesota
10:00am – 10:15am	Break <i>Think about what you want to get out of this meeting</i>
10:15am – 12:00pm	Plenary: Future of Nanoscience, Engineering, and Technology Keynote speakers: Eray Aydil, University of Minnesota Mauro Ferrari, Methodist Hospital Research Institute Emily Hunt, West Texas A & M University Moderated by Darrell Porcello, UC Berkeley, Lawrence Hall of Science
12:00pm – 1:30pm	Lunch with your Region <i>Please take your lunch to the room for your geographic region</i> Room 1/2: Northeast – NY, VT, NH, ME, RI, CT, and MA Room 3: Mid-Atlantic – PA, NJ, MD, DC, DE, OH, and WV Room 4: Southeast – VA, NC, SC, KY, TN, LA, MS, AL, GA, FL, and PR <i>Please note Washington DC area should be with Mid-Atlantic Region</i> Room 5: West – AK, WA, OR, ID, MT, WY, CO, UT, and NM Room 6: South – TX, AR, and OK Room 7: Southwest – CA, NV, AZ, and HI. Room 8/9: Midwest – ND, SD, NE, KS, MN, IA, MO, WI, IL, MI, and IN
1:30pm – 2:45pm	Showcase A (all ODD numbered posters and tables will be staffed)
2:45pm – 3:00pm	Break <i>What was your favorite Showcase demo or poster?</i>

3:00pm – 4:15pm	Concurrent Sessions #1 Room 1/2: AUDIENCES – Designing STEM programs to reach girls with nanoscale content Room 3: EXHIBITS / PROGRAMS – Making the most of the mini-exhibition as a platform for programming Room 4: PROGRAMS – Designing and implementing nanoscience summer camps Room 5: NANO & SOCIETY – Making nano relevant by connecting to societal impacts and everyday life Room 6: EVALUATION – Team-Based Inquiry (TBI) examples of building evaluation capacity in a range of nano education projects Room 7: COLLABORATIONS – Collaboration opportunities with scientific professional societies Room 8/9: AUDIENCES – Reaching the youngest audiences with super small science!
4:15pm – 4:30pm	Break <i>Chat with someone you'd like to collaborate with</i>
4:30pm – 5:00pm	Plenary Wrap-up (Ballroom A & B)
5:00pm	Walk to hotels
5:30 – 5:45pm	Begin walking to Padelford boat dock <i>Please see separate Wednesday evening walking map and schedule</i>
5:45pm sharp	Shuttles leave from Crowne Plaza hotel to Padelford boat dock Shuttles leave from Holiday Inn hotel to Padelford boat dock
6:00pm	Boarding begins at 6:00pm (presenters may board as early as 5:30pm)
6:30pm	Boat leaves at 6:30pm sharp (the boat will not wait)
6:30pm – 9:30pm	Nano on the Mississippi Get ready for a night of nano on the Mississippi River! Join us for dinner and demos featuring past favorites as well as new nanoscale science, engineering, and technology activities. There will also be time to connect with your colleagues about future collaborative efforts and discuss/reflect on the day's activities. <ul style="list-style-type: none"> • Dress informally; bring a jacket to stay warm • Please bring Wednesday evening map with walking directions and shuttle times • Dinner provided, cash bar available • Meeting attendees may walk or take shuttle buses to Padelford boat dock
9:30pm	Boat returns to dock; return shuttles will be provided back to hotels

Thursday, June 4th

RiverCentre, 2nd floor

Plenary sessions take place in Ballroom A & B

8:00am – 9:00am	Breakfast (Ballroom A & B)
8:00am – 9:00am	Breakfast for Official Project Advisors (Room 3) (<i>invitation only</i>)
9:00am – 10:15am	Concurrent Sessions #2 Room 1/2: AUDIENCES / COLLABORATIONS - The work that inspires us: Collaborating with underserved communities Room 3: EVALUATION & RESEARCH - Findings from research and evaluation studies: What we've learned about NISE Net's effects on the public Room 4: EXHIBITS / PROGRAMS - Scaling Up: How tailoring exhibits and programs to appeal to local audiences can help drive attendance Room 5: K-12 COLLABORATIONS / PROFESSIONAL DEVELOPMENT - - Creating and implementing K-12 teacher professional development Room 6: COLLABORATIONS - Museum-University collaborations extending your nano collaboration to other STEM topics Room 7: COLLABORATIONS - A conversation about future opportunities for collaboration with national youth-serving organizations on a local level (<i>working session - invitation only</i>) Room 8/9: PROGRAMS - Festivals, Fairs, and Family Nights: Using special events to highlight nano throughout the year
10:15am – 10:30am	Break <i>Just take a moment to breathe</i>
10:30am – 12:00pm	Concurrent Sessions #3 Room 1/2: NANO & SOCIETY - Using public engagement strategies and improv techniques to prepare staff to have conversations with visitors Room 3: AUDIENCES - Reaching out to rural audiences with nano content Room 4: AUDIENCES - Designing educational programs and materials to reach bilingual and Spanish-speaking audiences Room 5: PROGRAMS - Integrating nano content into larger themes (such as astronomy, food, and tinkering) throughout your museum and programming Room 6: K-12 COLLABORATIONS - Working with teachers and schools to reach K-12 students Room 7: COLLABORATIONS - After the "First Date": Sustaining university-museum relationships through nano Room 8/9: EXHIBITS - Creating exhibit components, signage, and media in conjunction with the Nano mini-exhibition

12:00pm – 1:30pm	Lunch (Ballroom A & B) Plenary: <i>Building with Biology</i> project and an Introduction to Synthetic Biology David Sittenfeld, Museum of Science, Boston Megan Palmer, Stanford University
1:30pm – 2:45pm	Showcase B (all EVEN numbered posters and tables will be staffed) Showcase will include <i>Building with Biology</i> activities
2:45pm – 3:00pm	Break <i>Who do you want to follow up with from the Showcase?</i>
3:00pm – 4:15pm	Concurrent Sessions #4 Room 1/2: PROGRAMS - Storytelling STEM: Using storytelling-based approaches to make STEM content appealing and relevant Room 3: AUDIENCES - Incorporating nano content into afterschool programs Room 4: EVALUATION & RESEARCH - Findings from research and evaluation studies: What we've learned about our professional partners' participation in NISE Net Room 5: PROGRAMS / PROFESSIONAL DEVELOPMENT - Training museum staff and volunteers Room 6: PROFESSIONAL DEVELOPMENT / COLLABORATIONS - Preparing scientists for working with family audiences: Seven organizations report on a new streamlined approach Room 7: COLLABORATIONS - A conversation with museum and exhibit directors about future opportunities for mini-exhibitions on other STEM topics Room 8/9: PROGRAMS - Learn how NanoDays activities are developed, reviewed, and how kits are fabricated
4:15pm – 4:30pm	Break <i>Take a moment to fill out page 26 of this program</i>
4:30pm – 5:00pm	Closing Plenary (Ballroom A & B) Larry Bell, Museum of Science Paul Martin, Science Museum of Minnesota David Ucko, Museums + more
5:00pm	Walk to hotels

Thursday, June 4th

continued

6:00pm – 7:00pm

Informal dinner at the Science Museum of Minnesota

Museum Level 2, Education Commons

- Please wear your badge to this event
- Please bring ID (showing you are over 21 years old); the museum will be checking IDs
- Please bring Thursday evening map with special directions to enter museum and reach Education Commons
- We will provide you with a wristband for the Social Science event and a ticket for the *Space: An Out-of-Gravity Experience* exhibition

7:00pm – 11:00pm

Social Science event at the Science Museum of Minnesota

Events and exhibits on Museum Levels 3, 4, 5 and 6

An event program with detailed map will be distributed

Social Science is an adult night at the Science Museum of Minnesota, welcoming those 21 and over to enjoy the museum, and experience innovative programming. This is your chance to:

- Visit the Science Museum of Minnesota - all exhibits will be open
- Participate in an evening program designed for adult audiences
- Experience how nanoscale science content can be integrated into a broader theme, the theme for tonight's Social Science event is ***Bike Night***. From the nanoscience behind lightweight bike frames to the physics that propels you forward, we'll be digging in deep with the science of cycling. This event and activities are for bike-minded people: whether you're an expert cyclist or you're just bike-curious, Bike Night is the place to be!
- Visit the traveling exhibition *Space: An Out-of-Gravity Experience*; tickets will be provided for conference attendees to visit the traveling exhibition at no charge

Meeting attendees may walk back to hotels whenever they choose.

Keynote Speakers



Larry Bell

Senior Vice President for Strategic Initiatives
Museum of Science, Boston

Larry Bell has worked in education and exhibits in various roles at the museum since 1971. He serves as PI for the NISE Network and the Multi-Site Public Engagement with Science - Synthetic Biology (MSPES - SynBio) project. He is especially interested in public engagement with societal implications and activities that engage the public in dialogue and deliberation.

BS, Physics, Massachusetts Institute of Technology, 1971

MS, Earth and Planetary Science, Massachusetts Institute of Technology, 1971



Paul Martin

Senior Vice President of Science Learning
Science Museum of Minnesota

Paul Martin oversees the museum's development, design and production of exhibits and related science learning programming. He serves as Co-PI for the NISE Network. He has a long, varied career and previously held positions with Museum Content Builders Inc., The Field Museum, Jim Henson Productions and the Minnesota Historical Society.



David Ucko

President
Museums + more LLC

David Ucko has served as deputy director of the Division of Research on Learning in Formal and Informal Settings at the National Science Foundation (NSF). He previously held leadership positions at Science City in Union Station in Kansas City, the Marian Koshland Science Museum of the National Academy of Sciences, the California Museum of Science and Industry, and the Museum of Science and Industry in Chicago.

BA, Chemistry, Columbia University, 1969

PhD, Chemistry, Massachusetts Institute of Technology, 1972

Keynote Speakers



Eray Aydil

Professor

Ronald L. and Janet A. Christenson Chair in Renewable Energy
University of Minnesota

Eray Aydil is a professor of chemical engineering and material science focusing on nanotechnology and energy. His research interests include thin film photovoltaics, quantum dot solar cells, dye-sensitized solar cells, and plasma research.

BS, Chemical Engineering, University of California at Berkeley, 1986

BS, Materials Science, University of California at Berkeley, 1986

PhD, Chemical Engineering, University of Houston, 1991



Mauro Ferrari

Ernest Cockrell, Jr. Presidential Distinguished Chair, President & CEO
Houston Methodist Research Institute

Mauro Ferrari is an academic entrepreneur focused on nanotechnology and medicine. His research interests include: nanomedicine, drug delivery, early detection and therapeutic monitoring, regenerative medicine, tissue engineering, biosensors, and bioethics.

Dottore Mathematics, Universita' di Padova, Italy

MS & PhD, Mechanical Engineering, University of California, Berkeley



Emily Hunt

Director, Mechanical Engineering

West Texas A & M University

Emily Hunt is a professor of mechanical engineering focusing on nano materials. Her research interests include energetic/explosive material reactions, high-speed infrared imaging, and engineering education.

BS, Mechanical Engineering, Texas Tech University, 2001

MS, Mechanical Engineering, Texas Tech University, 2002

PhD, Mechanical Engineering, Texas Tech University, 2005

Keynote Speakers



Darrell Porcello

CTO and Director, Center for Technology Innovation
Lawrence Hall of Science, UC Berkeley

Darrell Porcello leads a team of talented developers and educators in the creation of mobile apps, digital libraries, web sites, exhibits, and curriculum enhancements, rich in both science content and interactivity. Some notable projects include Howtosmile.org, NASA Wavelength, and the DIY app series.

BA, Neuroscience & Computer Science, Bowdoin College, 1996
PhD, Neuroscience, Stanford University, 2003



David Sittenfeld

Forum Program Manager
Museum of Science, Boston

David Sittenfeld manages the forum program to engage citizens, policymakers, and scientists in deliberative conversations around emerging scientific and technological issues. He serves as co-PI of the Multi-Site Public Engagement with Science - Synthetic Biology (MSPES - SynBio) project.

BA, Education and History, Brandeis University, 1996
MS, Urban and Regional Policy, Northeastern, 2012
PhD, Law and Public Policy, Northeastern University, expected 2016



Megan Palmer

William J. Perry Fellow in International Security
Stanford University

Megan Palmer is a scientist and engineer whose work focuses on developing, promoting and advising on responsible innovation in biotechnology. She is currently a Research Scholar in International Security at Stanford University, Executive Director of Synthetic Biology Leadership Excellence Accelerator Program (LEAP), and the Deputy Director of Policy and Practices for the multi-university NSF Synthetic Biology Engineering Research Center.

BScE, Engineering Chemistry, Queen's University, Canada, 2004
PhD, Biological Engineering, MIT, 2010

Concurrent Sessions

Concurrent Sessions #1

Wednesday, 3:00pm – 4:15pm

Room 1/2: AUDIENCES –

Designing STEM programs to reach girls with nanoscale content

Tim Hecox, Oregon Museum of Science and Industry (OMSI), Portland, OR*
Karen Peterson, National Girls Collaborative Project, Lynwood, WA
Elizabeth Martineau, LANL - Bradbury Science Museum, Los Alamos, NM
Gordon McDonough, LANL - Bradbury Science Museum, Los Alamos, NM
Sarah Margoles, Powerhouse Science Center, Durango, CO
Yana Jimenez, Imaginarium of South Texas, Laredo, TX

Room 3: EXHIBITS / PROGRAMS –

Making the most of the mini-exhibition as a platform for programming

Christina Akers, Science Museum of Minnesota, Saint Paul, MN*
Josh Sarver, Center of Science and Industry (COSI), Columbus, OH
Stephanie Graves, Delaware Museum of Natural History, Wilmington, DE
Karlisa Callwood, Patricia and Phillip Frost Museum of Science, Miami, FL

Room 4: PROGRAMS –

Designing and implementing nanoscience summer camps

Michelle Kortenaar, Sciencenter, Ithaca, NY*
Paola Ferrari, Accademia di Gagliato delle NanoScienze, Houston, TX
Meghan Schiedel, Terry Lee Wells Nevada Discovery Museum, Reno, NV
Michele Laverty, National Ag Science Center, Modesto, CA
Andrew McGarrahan, Saint Louis Science Center, Saint Louis, MO
Messaoud Bahoura, Norfolk State University, Norfolk, VA
Alan Brown, Sci-Port: Louisiana's Science Center, Shreveport, LA

Room 5: NANO & SOCIETY –

Making nano relevant by connecting to societal impacts and everyday life

Brad Herring, Museum of Life + Science, Durham, NC*
Elizabeth Kunz Kollmann, Museum of Science, Boston, MA
Gina Svarovsky, University of Notre Dame, South Bend, IN
Ira Bennett, Arizona State University, Tempe, AZ
David Sittenfeld, Museum of Science, Boston, MA
Andrew Maynard, University of Michigan Risk Science Center, Ann Arbor, MI
Kevin Jones, University of Florida, Gainesville, FL
Sophia Acord, University of Florida, Gainesville, FL
Pamela Hupp, Materials Research Society, Warrendale, PA
Kristi Jean, North Dakota State College of Science, Fargo, ND

Concurrent Sessions

Concurrent Sessions #1

Continued

Room 6: **EVALUATION –**

Team-Based Inquiry (TBI) examples of building evaluation capacity in a range of nano education projects

Sarah Cohn, Science Museum of Minnesota, Saint Paul, MN*

Caitlin Grothaus, Kentucky Science Center, Louisville, KY

Scott Randol, Oregon Museum of Science and Industry (OMSI), Portland, OR

Jolie Pelds, Science Center of Iowa, Des Moines, IA

Meriel Stokoe, Milton J. Rubenstein Museum of Science & Technology, Syracuse, NY

Room 7: **COLLABORATIONS –**

Collaboration opportunities with scientific professional societies

Elizabeth Hager-Barnard, Lawrence Hall of Science, Berkeley, CA*

Darrell Porcello, Lawrence Hall of Science, Berkeley, CA*

Richard Souza, Materials Research Society, Warrendale, PA

Darcy Gentleman, American Chemical Society (ACS), Washington, DC

Room 8/9: **AUDIENCES –**

Reaching the youngest audiences with super small science!

Aaron Guerrero, Children's Museum of Houston, Houston, TX*

Kevin Velasquez, Children's Museum of Houston, Houston, TX*

Stephanie Kadam, Stepping Stones Museum for Children, Norwalk, CT

Jeff Mehn, Above & Beyond Children's Museum, Sheboygan, WI

Anne Drake, Great Lakes Children's Museum, Traverse City, MI

John McCollum, Children's Museum of Indianapolis, Indianapolis, IN

Jacqueline Gardner, Children's Museum of Eau Claire, Eau Claire, WI

* denotes concurrent session organizer

Concurrent Sessions

Concurrent Sessions #2

Thursday, 9:00am – 10:15am

Room 1/2: AUDIENCES / COLLABORATIONS –

The work that inspires us: Collaborating with underserved communities

Marilyn Johnson, Oregon Museum of Science and Industry (OMSI), Portland, OR*

Sarah Zimmerman, Port Discovery Children's Museum, Baltimore, MD

Denise LeBlanc, The Discovery Museums, Acton, MA

Beth Bockoven, Hands On! - A Child's Gallery, Hendersonville, NC

Christine Stull, Science & Discovery Center, Elmira, NY

Andrew Redline, North Museum of Natural History and Science, Lancaster, PA

Room 3: EVALUATION & RESEARCH –

Findings from research and evaluation studies: What we've learned about NISE Net's effects on the public

Marjorie Bequette, Science Museum of Minnesota, Saint Paul, MN*

Steve Guberman, Science Museum of Minnesota, Saint Paul, MN*

Eric LaPlant, Science Museum of Minnesota, Saint Paul, MN

Dietram Scheufele, University of Wisconsin - Madison, Madison, WI

Leona Yi-Fan Su, University of Wisconsin - Madison, Madison, WI

Elizabeth Kunz Kollmann, Museum of Science, Boston, Boston, MA

Gina Svarovsky, University of Notre Dame, South Bend, IN

Stephanie Iacovelli, Museum of Science, Boston, Boston, MA

Margaret Sanford, Science Museum of Minnesota, Saint Paul, MN

Room 4: EXHIBITS / PROGRAMS –

Scaling Up: How tailoring exhibits and programs to appeal to local audiences can help drive attendance

Ali Jackson, Sciencenter, Ithaca, NY*

Allison Schwanebeck, Science Center of Iowa, Des Moines, IA

Jordan Warner, Brooklyn Children's Museum, Brooklyn, NY

Jessie Herbert, University of Montana - spectrUM Discovery Area, Missoula, MT

Jonah Cohen, McWane Science Center, Birmingham, AL

Trudi Plummer, Maine Discovery Museum, Bangor, ME

* denotes concurrent session organizer

Concurrent Sessions

Concurrent Sessions #2

Continued

Room 5: K-12 COLLABORATIONS / PROFESSIONAL DEVELOPMENT –

Creating and implementing K-12 teacher professional development

Michelle Kortenaar, Sciencenter, Ithaca, NY*

Joyce Palmer Allen, Georgia Institute of Technology, Atlanta, GA

Becky Wolfe, Children's Museum of Indianapolis, Indianapolis, IN

Robert Decker, Mohawk Valley Community College, Utica, NY

Mary Breen, Fernbank Science Center, Atlanta, GA

Carolyn Nichol, Rice University, Houston, TX

Matt Johnson, Penn State University, MRSEC, State College, PA

Tanya Faltens, Purdue University, West Lafayette, IN

Lynne Hehr, University of Arkansas, Center for Math and Science Ed., Fayetteville, AR

Room 6: COLLABORATIONS –

Museum-University collaborations extending your nano collaboration to other STEM topics

Brad Herring, Museum of Life and Science, Durham, NC*

Hardin Engelhardt, Marbles Kids Museum, Raleigh, NC

Jennifer Rei Cameron, Arizona Science Center, Phoenix, AZ

Linda Gillis, Natural History Museum of Utah, Salt Lake City, UT

Kelly Gallagher, Science Discovery Center at Oneonta, Oneonta, NY

Andrew Spence, Kentucky Science Center, Louisville, KY

Caitlin Grothaus, Kentucky Science Center, Louisville, KY

Daniel Steinberg, Princeton University, Princeton, NJ

Tara MacDougall, Discovery Center at Murfree Spring, Murfreesboro, TN

Preston MacDougall, Middle Tennessee State University, Murfreesboro, TN

Room 7: COLLABORATIONS –

A conversation about future opportunities for collaboration with national youth-serving organizations on a local level (working session - invitation only)

Rae Ostman, Science Museum of Minnesota, Saint Paul, MN*

Paul Martin, Science Museum of Minnesota, Saint Paul, MN

Larry Bell, Museum of Science, Boston, Boston, MA

Room 8/9: PROGRAMS –

Festivals, Fairs, and Family Nights: Using special events to highlight nano throughout the year

Jayatri Das, Franklin Institute, Philadelphia, PA*

Mary French, Reuben H. Fleet Science Center, San Diego, CA

Christopher Weyant, Drexel University, Philadelphia, PA

Jamie Bonnett, KidsQuest Museum, Bellevue, WA

Concurrent Sessions

Concurrent Sessions #3

Thursday, 10:30am - 12:00pm

Room 1/2: **NANO & SOCIETY –**

Using public engagement strategies and improv techniques to prepare staff to have conversations with visitors

Stephanie Long, Science Museum of Minnesota, Saint Paul, MN*

Heather Barnes, Museum of Science and Industry (MSI), Chicago, IL

Douglas Coler, Discovery Place, Inc., Charlotte, NC

Room 3: **AUDIENCES –**

Reaching out to rural audiences with nano content

Tim Hecox, Oregon Museum of Science and Industry (OMSI), Portland, OR*

Julie Bryan, Children's Discovery Museum of West Virginia, Morgantown, WV

Dawn Kirchner, Boonshoft Museum of Discovery, Dayton, OH

Ahia Dye, `Imiloa Astronomy Center of Hawai`i, Hilo, HI

Jessie Herbert, University of Montana - spectrUM Discovery Area, Missoula, MT

Room 4: **AUDIENCES –**

Designing educational programs and materials to reach bilingual and Spanish-speaking audiences

Aaron Guerrero, Children's Museum of Houston, Houston, TX*

Kevin Velasquez, Children's Museum of Houston, Houston, TX*

Veronika Nunez, Oregon Museum of Science and Industry (OMSI), Portland, OR

Treloar Tredennick Bower, Fort Collins Museum of Discovery, Fort Collins, CO

Nick Spicher, The Science Factory, Eugene, OR

Aaron Hunt, West Texas A&M University (WTAMU), Canyon, TX

Veronica Garcia-Luis, Exploratorium, San Francisco, CA

Room 5: **PROGRAMS –**

Integrating nano content into larger themes (such as astronomy, food, and tinkering) throughout your museum and programming

Frank Kusiak, Lawrence Hall of Science, Berkeley, CA*

Kathleen Lawson, Arkansas Discovery Network, Little Rock, AR

Victoria Scalise, Palouse Discovery Science Center, Pullman, WA

Summer Lazenby, Challenger Learning Center of Alaska, Kenai, AK

Concurrent Sessions

Concurrent Sessions #3

Continued

Room 6: K-12 COLLABORATIONS –

Working with teachers and schools to reach K-12 students

Kevin Dilley, Sciencenter, Ithaca, NY*
Sarah Margoles, Powerhouse Science Center, Durango, CO
Sarah Thomas, Explorit Science Center, Davis, CA
Cheryl Glasford, Omaha Children's Museum, Omaha, NE
Barbara McMillin, Children's Museum in Oak Lawn, Oak Lawn, IL
Corrine Doron, Sony Wonder Technology Lab, New York, NY

Room 7: COLLABORATIONS –

After the "First Date": Sustaining university-museum relationships through nano

Jayatri Das, Franklin Institute, Philadelphia, PA*
Luke Donforth, University of Vermont, Burlington, VT
Donna Hammer, University of Maryland, College Park, MD
Kalathur (KSV) Santhanam, Rochester Institute of Technology (RIT), Rochester, NY
Joelle Adolphi, Rochester Museum & Science Center, Rochester, NY
Tifferney White, Discovery Children's Museum, Las Vegas, NV

Room 8/9: EXHIBITS –

Creating exhibit components, signage, and media in conjunction with the *Nano* mini-exhibition

Catherine McCarthy, Science Museum of Minnesota, Saint Paul, MN*
Idalia Ramos, University of Puerto Rico at Humacao, Humacao, PR
Doug Borzynski, Buffalo Museum of Science, Buffalo, NY
Anji McStravic, Imaginarium Science Center, Fort Myers, FL
Jessica Enloe Murphy, Golisano Children's Museum of Naples, Naples, FL
Kelli Isenhour, SciWorks, Winston-Salem, NC
Michael Rathbun, Discovery Center Museum, Rockford, IL
Karen Knecht, Da Vinci Science Center, Allentown, PA
Paul Freiling, Saint Louis Science Center, Saint Louis, MO

* denotes concurrent session organizer

Concurrent Sessions

Concurrent Sessions #4

Thursday, 3:00pm – 4:15pm

Room 1/2: PROGRAMS –

Storytelling STEM: Using storytelling-based approaches to make STEM content appealing and relevant

Keith Ostfeld, Children's Museum of Houston, Houston, TX*

Betty Jones, Milton J. Rubenstein Museum of Science & Technology, Syracuse, NY

Stephanie Long, Science Museum of Minnesota, Saint Paul, MN

Kevin Delaney, Museum of Discovery, Little Rock, AR

Anika Taylor, The Bakken Library and Museum, Minneapolis, MN

Danni Dancer, The Bakken Library and Museum, Minneapolis, MN

Sarah Carter, Twin Cities Public Television (TPT), Saint Paul, MN

Room 3: AUDIENCES –

Incorporating nano content into afterschool programs

Elizabeth Hager-Barnard, Lawrence Hall of Science, Berkeley, CA*

Frank Kusiak, Lawrence Hall of Science, Berkeley, CA*

Jessica Liken, Perot Museum of Nature and Science, Dallas, TX

Bethany Thomas, Children's Discovery Museum, Normal, IL

Jenny Young, Science Central, Fort Wayne, IN

Heather Armstrong, University of New Mexico, Albuquerque, NM

Melissa Ballard, Afterschool Alliance, Washington, DC

Room 4: EVALUATION & RESEARCH –

Findings from research and evaluation studies: What we've learned about our professional partners' participation in NISE Net

Elizabeth Kunz Kollmann, Museum of Science, Boston, Boston, MA*

Juli Goss, Museum of Science, Boston, Boston, MA*

Tina Stanford, SRI International, Menlo Park, CA

Linda Shear, SRI International, Menlo Park, CA

Marta Beyer, Museum of Science, Boston, Boston, MA

Stephanie Iacovelli, Museum of Science, Boston, Boston, MA

Concurrent Sessions

Concurrent Sessions #4

Continued

Room 5: PROGRAMS / PROFESSIONAL DEVELOPMENT –

Training museum staff and volunteers

Kevin Dilley, Sciencenter, Ithaca, NY*
Abigail Goodlaxson, Maryland Science Center, Baltimore, MD
Yana Jimenez, Imaginarium of South Texas, Laredo, TX
Kathy Fournier, McWane Science Center, Birmingham, AL
David Mues, Powerhouse Science Center, Sacramento, CA
Margaret Hennessey Springe, Kansas Children's Discovery Center, Topeka, KS

Room 6: PROFESSIONAL DEVELOPMENT / COLLABORATIONS –

Preparing scientists for working with family audiences: Seven organizations report on a new streamlined approach

Carol Lynn Alpert, Museum of Science, Boston, Boston, MA*
Karine Thate, Museum of Science, Boston, Boston, MA*
Sarah Fisk, The CNSE Children's Museum of Science & Technology, Troy, NY
Tracy Englert, University of Southern Mississippi, Hattiesburg, MS
Alex Laube, Marbles Kids Museum, Raleigh, NC
Anna Barr, California Academy of Sciences, San Francisco, CA

Room 7: COLLABORATIONS –

A conversation with museum and exhibit directors about future opportunities for mini-exhibitions on other STEM topics

Rae Ostman, Science Museum of Minnesota, Saint Paul, MN*
Paul Martin, Science Museum of Minnesota, Saint Paul, MN
Larry Bell, Museum of Science, Boston, MA
Catherine McCarthy, Science Museum of Minnesota, Saint Paul, MN

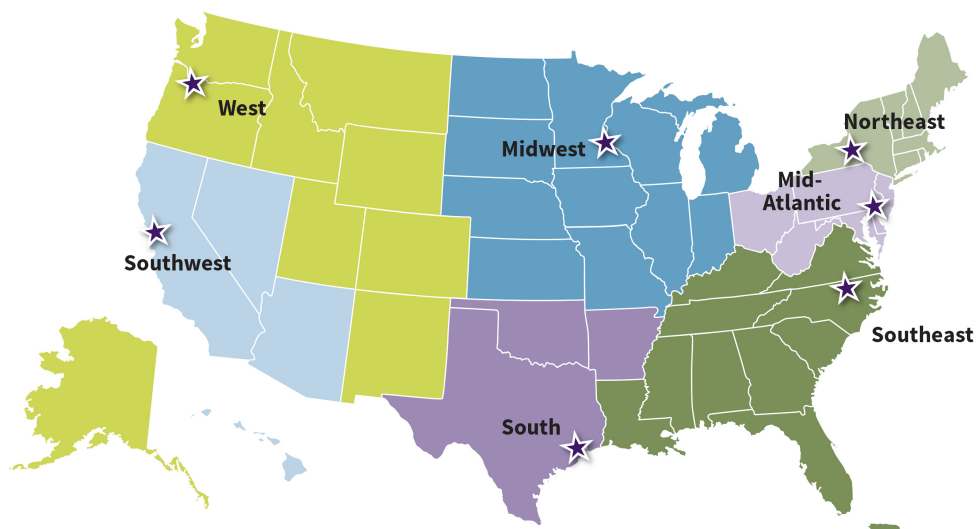
Room 8/9: PROGRAMS –

Learn how NanoDays activities are developed, reviewed, and how kits are fabricated

Ali Jackson, Sciencenter, Ithaca, NY*
KC Miller, Science Museum of Minnesota, Saint Paul, MN
Sarah Cohn, Science Museum of Minnesota, Saint Paul, MN

* denotes concurrent session organizer

Regional Hub Map



NISE Network Regional Hub contacts

The NISE Network community within the United States is organized around seven “Regional Hubs” based on geographic proximity. Regional hubs facilitate partner interaction in the Network, help museum educators connect with researchers and each other, host regional workshops and meetings, and provide support to institutions in their region.

Mid-Atlantic

PA, NJ, MD, DC, DE, OH, and WV
Jayatri Das,
Franklin Institute, Philadelphia, PA
215-448-119, jdas@fi.edu

Northeast

NY, VT, NH, ME, RI, CT, and MA
Ali Jackson,
Sciencenter, Ithaca, NY
607-272-0600, ajackson@sciencenter.org

Southeast

VA, NC, SC, KY, TN, LA, MS, AL, GA, FL,
and Puerto Rico
Brad Herring,
Museum of Life and Science,
Durham, NC
919-220-5429 x360, bradh@ncmls.org

West

AK, WA, OR, ID, MT, WY, CO, UT, and NM
Tim Hecox,
Oregon Museum of Science and Industry,
Portland, OR
503-797-4637, thecox@omsi.edu

Midwest

ND, SD, NE, KS, MN, IA, MO, WI, IL, MI, and IN
Christina Akers,
Science Museum of Minnesota,
St. Paul, MN
651-221-9434, cakers@smm.org

South

TX, AR, and OK
Kevin Velasquez,
Children’s Museum of Houston
713-535-7239, kvelasquez@cmhouston.org

Southwest

CA, NV, AZ, and HI.
Frank Kusiak,
Lawrence Hall of Science,
Berkeley, CA
510-642-3153, frank_kusiak@berkeley.edu

Next Steps

People I want to connect with after the meeting:

Websites I want to visit after the meeting:

Things I want to share with people at my own organization:

Ways to use my NanoDays materials in the future:

Take the Lead, Use the Tools, Stay in Touch



www.nisenet.org

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