#### Dr. Quinn Spadola

### Georgia Institute of Technology

#### Associate Director of Education and Outreach, NNCI



# NNCI Education and Outreach Mission

- Offer education and training to address the growing need for a skilled workforce and informed public
- Provide resources, programs, and materials to enhance knowledge of nanotechnology and its application to real-world issues
- Support the US economy by enabling a STEM-literate workforce ready to meet the technological challenges of a nano-enabled economy as well as an informed citizenry that supports continued and safe growth of nanotechnologies



# NNCI E&O



From August 2020 through July 2021

Reached over 14,500 people through in-person and virtual activities

Does not include NanoEarth's Pulse of the Planet program or NNF's traveling museum exhibit (~5,000 visitors), RTNN's Coursera (~8,000 registered), or CNF's *Nanooze* 

#### Drop from last year's 32,000





# NNCI E&O

Audience	Ex.Activities	This Year	Last Year
K12 Students	Remote Sessions	5,400	18,600
	Class Trips		
	Camps		
	Tours		
K12 Teachers	Workshops	900	800
	Conferences		
	RET		
General Public	Festivals	1,100	3,800
	Science Days		
	NND Events		
Professionals	Student Interns	7,000	8,800
	REU		
	Short Courses		
	Conferences		
	Seminars		





# NNCI E&O







Micro Nano Tech education Special Interest Group

MNTeSIG.net

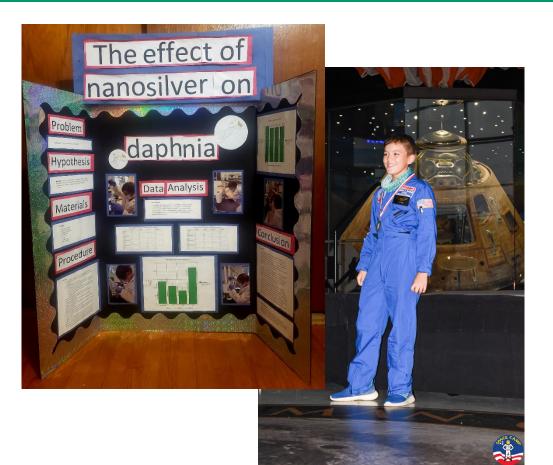
BOYS & GIRLS CLUBS OF AMERICA



National Nanotechnology Coordinated Infrastructure



# NNCI E&O – KI2 students







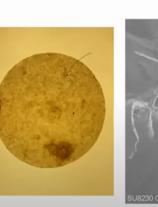


# **NNCI E&O - Educators**

### ANALYZING THE PAPER HANDSHEETS

#### Scanning Electron Microscopy





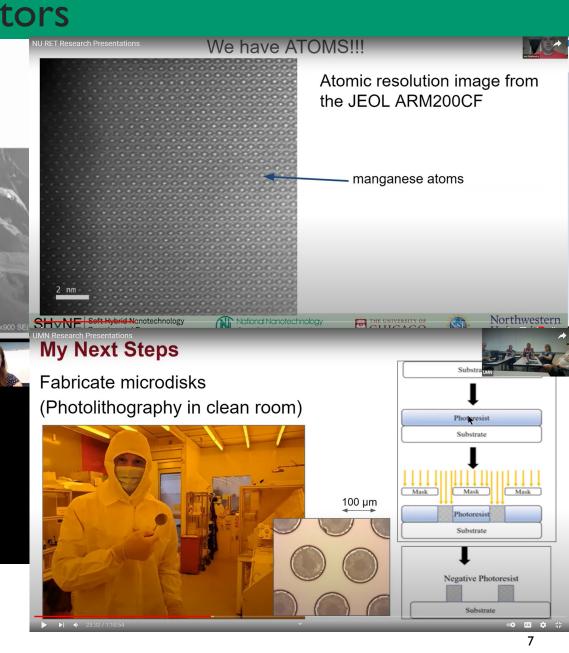


**TESTING** NANOPARTICLES AS GAS SENSORS

KENDRA SIBBERNSEN, PHD UNIVERSITY OF NEBRASKA - LINCOLN TETROPOLITAN COMMUNITY COLLEGE







## **NNCI E&O - Educators**





# NNCI E&O - Undergraduates



# NNCI E&O - Professionals

## *Women in Microscopy Conference* in celebration of International Women's Day



"It was so wonderful to meet and connect with so many extraordinary women and electron microscopists from national labs, academia, core facilities, and industry. I had so much fun at this conference!" -- Dr. Juleen Dickson, UW Madison





## **NNCI E&O - Professionals**

Micro Nano Technology Health & Safety Course through the Micro Nano Technology Education Center (MNT-EC)





Future career goals after your			
involvement with this internship			
STEM Grad School	4.5		
STEM Career	4.8		
STEM Faculty	3.4		
Working in Indutry	4.3		

Not at all interested (1) to Extremely interested (5)

"I came in as a sophomore with little working knowledge of semiconductors but a desire to learn more... Through this internship I was picked up by a large semiconductor company, and it was largely due to the knowledge that the engineers at ASU NanoFab gave to me that I was able to begin an internship in industry. I have nothing but incredibly positive things to say about this experience!" Student Worker





## E&O Breakout Session Tomorrow, Nov. 3, at 3 pm EDT





Mike Russo NIIT Chairman

Robert Weinman Innovation & Infrastructure lead The Mission of the National Institute for Innovation and Technology is to identify current and future roadblocks to innovation in strategic industry sectors and ensure they are eliminated.



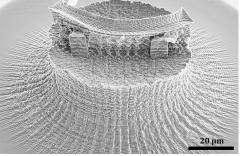


## Plenty of Beauty at the Bottom

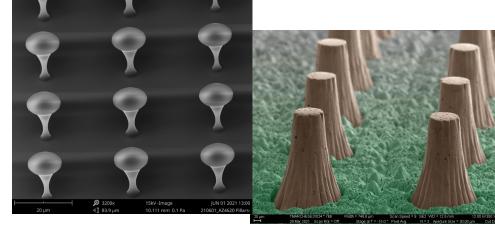
#### Most Stunning - NNF/NNI







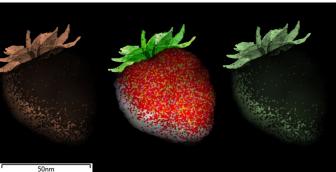
## Most Unique Capability - RTNN/ SENIC



## Most Whimsical -NanoEarth/ NCI-SW

National Nanotechnol
Coordinated Infrastruc





Thank You!

Questions?

