

# MNT<sup>e</sup>SIG Collaboratory Agenda and Minutes

Date: Friday - December 7, 2018  
 Time: 2:30pm - 3:30pm Eastern Time  
 Zoom Link: <https://zoom.us/j/198284019>

Attendees: Marco Curreli, Paul Weber, Ray Tsui, Bob Ehrmann, Matt Pleil, Todd Christenson, Caroline Vaningen-Dunn, Gary Mullett, J.Friedman, Pam Auburn, Rogerio Furlan, Kate Alcott, Mike Lesiecki, Ozgur Cakmak, A. Khan, NT Izuchi, Rick Vaughn, Tony Dalessio, Jared Ashcroft, Abe Michelin, James Schifley, Anna Tanguma, Nancy Louwagie

Not here but expressed interest:

Next meeting: January 11 2:30 Eastern

Time	Topic	Presenter	Expected outcome	Key Inputs/Decisions	Action Item
2:30-2:35	Welcome, purpose, introductions - who is in the room	Matt			
2:35-3:15	Presentation by Todd Christenson – Commercializing Micro/Nano	Todd	current opportunities, challenges, and lessons learned	See website for copy of presentation.	
	Hi TEC MNT Discussion	Mike L.	Hi TEC conference in St. Louis July 22-25 Deadline Feb. 4 for submissions Hi TEC website  Deadline for MNT All day SIG is Jan 15 What do we want to see, half day or full day? Is 7 minutes the magic number?	Lightening Round should stay – Matt Add networking session – formal or informal Discussion with industry  All about making connections Take advantage of face-to-face advantages  Let’s keep 7 minutes  Invite companies to give descriptions of different jobs and skills needed that they are having trouble filling – Kate  Survey of MNT skills – Caroline MNTeSIG come up with a survey? Rate importance of knowledge & skills  Include industry input in the MNTeSIG agenda -Paul  Perhaps an industry panel – Mike	

				<p>Pam can help with getting data for MNT skills and work with Caroline Inviting someone from SEMI</p> <p>Have MNTeSIG members invite industry presenters</p> <p>Recording industry inputs or having industry participate via Zoom</p> <p>Subgroup come up with 4 or 5 questions to pose to industry</p> <p>Full Day MNTeSIG</p>	
	<p>Discussion: Micro and Nano Collaboration grant proposal to NSF ATE Need community colleges to take leading roles</p>	<p>Matt</p>	<p>MNT ATE National Center Proposal – gauge interest</p> <p>Need community colleges to lead – (that’s what NSF ATE prefers)</p> <p>Jared Ashcroft &amp; Rick Vaughn Pasadena Community College Rio Salado College</p> <p>4 community colleges + to be involved</p> <p>7.5 million for 5 years</p> <p>NSF 18-571</p>	<p>Danny Kainer – Lone Star ? Paul Weber – UVU ? Caroline Vaningen-Dunn – Science Foundation Arizona Center for STEM</p> <p>If anyone is interested please let Rick and Jared know.</p> <p><a href="mailto:rick.vaughn@riosalado.edu">rick.vaughn@riosalado.edu</a></p> <p><a href="mailto:jmashcroft@pasadena.edu">jmashcroft@pasadena.edu</a></p> <p><a href="https://www.nsf.gov/pubs/2018/nsf18571/nsf18571.htm">https://www.nsf.gov/pubs/2018/nsf18571/nsf18571.htm</a></p>	
	<p>Next Agenda and Opens</p>				

Chat box – December 7, 2018

12:32:28 From ROBERT KENNETH EHRMANN : Hello everyone!

12:32:41 From Barbara Lopez : Hello Bob, and everyone!!

12:32:43 From ROBERT KENNETH EHRMANN : Don't forget we have this chat box.

12:32:51 From mlesiecki : can we do a brief role call?

12:32:57 From Marco Curreli (Omni Nano) : Hey, colleagues, I'm recovering from a soar throat. I'll be quiet today, unless you need my inputs. Thank you for your understanding.

12:33:07 From Paul Weber : Hello, Paul Weber from UVU here - Glad to be able to make the meeting!

12:33:16 From Atilla Ozgur Cakmak : Hi All

12:33:21 From jsfriedman@suagm.edu : My first attendance with this group. I guess the system doesn't know my name (Jonathan Friedman)

12:33:26 From Dr. A. Khan : Greetings from Chicago,

12:37:07 From mlesiecki : Hi Jonathan, welcome, Mike

12:40:01 From Barbara Lopez to Caroline Vaningen-Dunn (Privately) : Hi Caroline! Welcome, so glad you're here! I don't think I have your email address, would you mind sending it to me as well as your institution so I can add you to our list. Thanks!

12:42:45 From Rick Vaughn : Are we recording this? It would be excellent for my administration.

12:43:03 From Matthias Pleil : Yes - Barb is recording

12:43:06 From ROBERT KENNETH EHRMANN : We are Rick.

12:43:55 From Barbara Lopez : I'm going to upload the recordings to our website: <https://www.mntesig.net/>

12:45:00 From Matthias Pleil : Please mute your mics (except todd)

13:19:23 From Dr. A. Khan : Dr. Ahmed Khan

13:19:34 From Rick Vaughn : Thakn you Todd. That was awesome! It will be very useful

13:19:42 From Barbara Lopez : Thanks Todd!!

13:19:44 From Caroline Vaningen-Dunn to Barbara Lopez (Privately) : Excellent presentation, thank you!

13:19:56 From Dr. A. Khan : What is the status of the development of standards to prevent exposure to nanowaste?

13:20:35 From Dr. A. Khan : Question for Todd

13:23:23 From Matthias Pleil : Lightening round should stay, no?

13:23:28 From NT Izuchi : I live in Boston and I am an alumnus of Northeastern University and I am interested in learning more about COMS 2019. Is it a free event with registration? If not, how much is the registration?

13:25:02 From Barbara Lopez : We'll get the COMS info out to the group!

13:26:25 From Pamela Auburn : In the previous talk we heard that this field touches many areas of science. I would like to hear more specifically about these connections and ideas about how to incorporate this into academic curriculm

13:27:37 From Rick Vaughn : That is a valid logical argument

13:28:23 From Matthias Pleil : COMS does have a conference fee, about \$600 or so. We could approach COMS to assist in the educational sessions - I know some of the organizers.

13:29:01 From Rick Vaughn : My term for that is to make the workforce pathway to be as "maximally transferable as possible"

13:29:05 From Pamela Auburn : I really like that idea

13:29:59 From Pamela Auburn : I often think that academics is behind industry in adapting newer technologies into teaching

13:30:09 From Pamela Auburn : are behind

13:30:10 From Matthias Pleil : Need to give companies the opportunity to present remotely or we can interview them, record and play back at the conference - they may not have time to come.

13:32:07 From Pamela Auburn : It does not have to be complete - would be have valuable data by thn

13:35:26 From Pamela Auburn : That is exactly the issue So given that many students start in an academic track because they do not know anything else and (2) the performance of students in intro classes often demonstrates that the academic track may not be appropriate (3) would infusing some content relevant to micro nano support transition to a path that might serve them better

13:40:17 From Nancy : Can a survey be jointly developed that would be distributed to industry partners asking them to rate importance of knowledge and skills and tie it to the particular industries?

13:43:30 From Barbara Lopez : Good idea Nancy

13:44:27 From Pamela Auburn : I think danny would be very interested

13:44:40 From Matthias Pleil to Barbara Lopez (Privately) : Can I get the screen?

13:45:30 From Barbara Lopez : Great Pam! We'll make sure he knows about it.

13:45:52 From mlesiecki : Dr. Carter likes to respond to a one or twp page concept

13:46:11 From Caroline Vaningen-Dunn to Barbara Lopez (Privately) : The Science Foundation Arizona Center for STEM is interested in this - we are working already with community colleges and connecting them to the Nano capabilities at ASU.

13:46:26 From mlesiecki : Solicitation Google NSF 18-571

13:48:05 From Pamela Auburn : could I get linked into that

13:50:55 From Barbara Lopez : <https://www.nsf.gov/pubs/2018/nsf18571/nsf18571.htm>

13:51:04 From Nancy : Which CC's have 2-year Nanotechnology or 2-year Nanoscience degree programs?

13:51:59 From Rick Vaughn : We do. And one idea is to share and scale the curriculum/hybrid model in a way that is flexible and adaptable to different locations.

13:53:51 From Rick Vaughn : Are any in California?

13:55:08 From Pamela Auburn : Bob please send me this

13:55:22 From Matthias Pleil to Barbara Lopez (Privately) : Jan 11?

13:55:51 From Pamela Auburn : I have one outstanding student I have applying for a position at a DOE internship this summer

13:56:09 From Matthias Pleil : Propose next meeting Jan 11, same time?

13:56:10 From Pamela Auburn : I have blocked out those Fridays'

13:56:43 From Pamela Auburn : I need this!

13:57:02 From Pamela Auburn : Works 4 me

13:57:38 From Pamela Auburn : That week is in service for me