



# MNT PROFESSIONAL DEVELOPMENT

MNTeSIG Live Meeting 2020

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# ACADEMIC PROFESSIONAL DEVELOPMENT

- “When the term is used in education contexts without qualification, specific examples, or additional explanation, however, it may be difficult to determine precisely what “professional development” is referring to.” -Edglossary.org
- Our Sub-Group meets to help:
  - Identify current professional development opportunities
  - Anticipate future professional development needs
  - Propose new professional development activities
  - Develop strategies to help faculty learn of these activities
  - Coordinate national professional development

# MNT-EC PROFESSIONAL DEVELOPMENT FOCUS

The stated objective is to help to identify, disseminate as well as to deliver professional development (as appropriate) to enhance knowledge, skills, and abilities so that faculty will integrate existing as well as new information about MNT techniques and trends into courses and programs.

- Facilitate faculty Workshops - next zoom workshop August 5
    - Example -- Nano Photonic – Greg Kepner
  - Facilitate professional conferences like this one
  - Deliver hands-on laboratory experiences – for example -- NPDP, SCME (faculty w/ students), RAIN into classrooms
  - Produce education and industry podcasts – Coming soon.
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- Always looking for people to help with these and other activities!

## EXISTING NSF ATE PD ACTIVITIES:

NPDP - NANOTECHNOLOGY PROFESSIONAL DEVELOPMENT PARTNERSHIP  
SCME - SUPPORT CENTER FOR MICROSYSTEMS EDUCATION

- NPDP Live stream MNT workshop series using zoom
  - Formerly F2F workshops at NACK PSU - ~ 1500 PD attendees
  - Introductory - for all comers
  - NCM 1 and NCM2 - Detailed for possible integrators
  - Hands-On Site - F2F for implementers
  - Will continue for next 5 years via NACK / MNT-EC
- SCME Face to Face in cleanroom training
  - Anticipate funding for Cleanroom experiences for faculty with their students in Albuquerque NM.

# UNIVERSITY PROGRAMS

- Stanford Teacher Workshops with UCSD and RTNN (using RAIN)
- UCSD – NNCI Educator Conference in September
- Lehigh University Microscopy School Week Long Short Course in Advanced Electron Microscopy
- Oakcrest K-12 Teacher Workshops and Training

We want to know about activities to help to disseminate to educators. Help us!! It's the power of the network.

# INDUSTRY PROGRAMS/ CONFERENCES

- HI-TEC – This week
- MNTeSIG annual meeting
- MANCEF COMS conference - October 19-22, 2020
- NSF ATE PI
- NCPN – National Career Pathways Network October 2020
  
- Looking for people who attend these and other conferences to talk about the MNTeSIG collaboration well as bring back key learnings to MNTeSIG meetings.

# HOW TO GET INVOLVED!

- Activities of the Professional Development Sub Group are coordinated through MNTeSIG.
  - Register on the MNTeSIG website
  - Attend MNTeSIG meetings monthly and indicate that you want to be involved in the sub-group.
  - Contact Matt directly.
- I look forward to seeing you in the Faculty Development Breakout Session.