

MNT^eSIG Meeting Minutes – June 12, 2020

Scribe: Matthias Pleil

33 MNT^eSIG members registered for the meeting, about 30 attended – see list in Table 1.

Discussion

HI TEC – sign up for the virtual conference – two days of synchronous presentations, presenters will submit their work by July 10 and will be available to registered conference attendees. Papers, presentation slides, videos, posters are all acceptable – Videos should also be captioned. Suggested to try to do videos which can be re-purposed etc...

ATE PI / COMS (MANCEF) Joint conference – Jared updated us on this opportunity. The PI conference will have a virtual component with Oculus Rift. Doesn't look like there will be no face to face at the ATE PI conference and it doesn't look like COMS will be face to face.

Once the conference is funded (COMS/ATE), the details will be posted which will include a series of monthly meetings/seminars/micro conferences Maybe focused by topic. More to come from Jared in the future.

A bit of discussion on the Oculus Rift – 3D visualization system. Terryll suggested CAVES as a resource (ATE grant)

Eldon McMurray mentioned the VR work done by Paul Weber (Utah Valley University). They have six cleanroom and Tech training modules done in virtual reality. Paul was to present at HI TEC – but we can also have him show some of his work at MNT^eSIG meeting. Units completed by Paul's group: Sense of Scale, Material Science Structure, Surface Preparation & Etching, Photolithography Technique, Measurements and Imaging, Application of Nanoparticles – looking forward to getting links to these units.

AI: Eldon to get Paul to get us the links to the VR units for our use.

Table 1 Registered Attendees

Eldon	McMurray
Jim	Smith
Marco	Curreli
Joseph	Maxwell
Cait	Cramer
Ray	Tsui
Peter	Kazarinoff
Carol	Bouvier
Todd	Christenson
Elena	Brewer
Andrew	Bell
Jim	Marti
Abe	Michelen
Kate	Alcott
Nancy	Louwagie
Olga	Vazquez
Yves	Therault
Terryll	Bailey
Pamela	Auburn
Tanya	Faltens
Rich	Hill
David	Hata
Demis	John
NT	Izuchi
Abdelaali	Fargi
Esraa	Abdalla
Jared	Ashcroft
Greg	Kepner
Billie	Copley
A	Khan
valerie kovach	
Shivakumar	Mathapathi
Mohamed	Aklalouch

Virtual reality world – second life was discussed – could also be used to augment online labs, discovery.

Elena Brewer's (ECC) presentation on Vacuum Systems and her current grant with Nancy L. Highlights:

Focus is on creating an E-Book loosely based on David Hata's "Introduction to Vacuum Technology" book (no longer in print). Target audience is the 2yr tech student. Can be used in Eng. Tech, semiconductor, Nano courses, etc. Starting in year 2, Elena will like to have CC's to test drive the units and provide feedback (stipends available for faculty). Interested: contact Elena: Brewer@ecc.edu

AI: Matthias Pleil promised photos of pumps/equipment to Elena. Nancy L. also would like info from our techs regarding what Tech look for. Matt invited folks to come and have a look here at our site. Matt sent Elena the info on Red Shelf who can take the book and make it an e-book, can highlight, take notes etc...

Matt mentioned the leak check simulator Mike L's group put together several years ago. Could be a nice add on.

Powerpoint slides have been posted on the MNT^eSIG site.

Curriculum Team Update

Marco C. – team meets one week after MNT^eSIG meetings. Nanotech video Bob supplied was distilled down to the essential parts – good re-purposing. He imbedded the video into his curriculum with questions related to the video – awesome. Short videos are best (2min may be too much for some!). The format is good – video followed by questions that you can see as you watch the video – good approach. Cait C. from Ivy Tech gave a lot of feedback during the process. Marco created a google marketing campaign – very cool – see:

<https://omniano.org/start-your-stem-degree-in-nanotechnology/>

Problem has been in the CC's website – disconnected, not working – common among many colleges. This could be a role for MNT^eSIG to connect with the colleges and call these problems out. (Many if not most higher ed sites have these issues – good content, difficult to find).

Marco suggested getting volunteers.

Marco and the Curriculum team wants to work with both the Industry and Outreach teams to improve the pipeline... Great work!

AI: Ray Tsui said he will get with Rick Vaughn to fix the links.

Very quick sub team turn-around time, something we need to all aspire to (Matt's comments). Great progress!

Industry Maps

Matt: Maps have been updated – will be adding feedback form in the next couple of weeks so that users can feedback problems with the maps.

<http://scme-support.org/index.php/industry-overview>

Virtual MNT^eSIG Conference – Proposed Agenda

Proposed Timing – or should we push it back?

Time (Eastern): 12-3:30 Monday & Tuesday July 27 & 28

Monday

Welcome

Keynote

Sub Team Presentations

Sub Team Breakouts Sessions

Lightening Round Panel

Posters – short presentation on each poster

Poster Viewing

Tuesday

Keynote

Lightening Round – Newbies

Sub Team Report Outs

MNT-EC National Center Presentation/Discussion

Poster Viewing and discussion (as break out rooms?)

Or

Happy Hour Socializing – 7:00-8:30 Eastern

AI: ALL – update your bios in the Asset Book – see current one:

https://www.mntesig.net/uploads/1/2/2/3/122354635/mntesig_assetbook_2019.pdf

Send in your updated bio/photo – use a similar format as in the asset time.

Will be collecting submission for short presentations/posters in early July.

Update from Todd on COMS Conference

Most likely will be all online. Virtual booths may be done as well. Please submit abstract by

July 10th: <https://www.mancef.org/coms2020/>

Next Meeting

July 26th – 12 noon Eastern