

nanoUtah 2015

UTAH'S STATEWIDE NANOTECHNOLOGY GRANT COORDINATION WORKSHOP

TUESDAY, OCTOBER 13, 2015

UNIVERSITY OF UTAH

USTAR Atrium & Auditorium

Sorenson Molecular Biotechnology Building (SMBB)

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| 7:30 a.m. | Check-in, poster set-up | 11:05 a.m. | Steve Blair: Advanced 3D nanomanufacturing nanoscribe |
| 8:00 a.m. | Welcome: Bruce Gale, Ian Harvey | 11:15 a.m. | Mike Czabaj: X-Ray nanoCT (5 μ m voxel resolution on 3-5" specimens, 500nm resolution on 1mm specimens) |
| 8:15 a.m. | Paul Clayson: Father of Utah Nano Initiative (precursor to USTAR): Where we've come from, where we are going | 11:25 a.m. | Raheel Samuel: Raman nano spectroscopy for biomed imaging applications |
| <i>Morning Session: Large, multi-PI proposals</i> | | | |
| 8:30 a.m. | Dawn Porter: Collaborative research support | 11:35 a.m. | Will Rankin: Imaging EELS NSF/MRI |
| 8:45 a.m. | M. Janat-Amsbury and H. Ghandehari: Cancer Nanotechnology and Nanotoxicology: Response to NIH RFAs | 11:45 a.m. | Ross Walker: Electrical Characterization user lab |
| 9:00 a.m. | Bryony Richards-McClung: EGI/SCII collaboration | 11:55 a.m. | Student poster session Working lunch: Topics by table Nanofab tours |
| 9:15 a.m. | Deepankar Pal: The future of 3D metal printing | 1:45 p.m. | Debriefing session: Facilitators summarize topics from tables, including action items |
| 9:30 a.m. | Scott L. Anderson: I/UCRC | 1:50 p.m. | Andy Buffmire: Utah Advanced Materials and Manufacturing Initiative. Benefits of the recent preferred designation of IMCP by the SBA and how to take advantage of this. |
| 9:45 a.m. | Will Rankin: EFRC RFP 2D materials | <i>Afternoon Session: Smaller multi-PI grants and support resources</i> | |
| 10:00 a.m. | Morning break | 2:05 p.m. | Rapid-fire intros for tech push and market pull, see back for details |
| <i>Late morning Session: Infrastructure and Instrumentation proposals - Wish lists</i> | | | |
| 10:20 a.m. | Ian Harvey: Nanofab update and designing new device functionality with hard-to-handle materials | 3:22 p.m. | Afternoon break |
| 10:35 a.m. | David Belnap: 300 KeV Cryo TEM | 3:40 p.m. | Rapid-fire intros for tech push and market pull, see back for details |
| 10:45 a.m. | Scott Anderson: eTEM at the U | 5:00 p.m. | Conclusion |
| 10:55 a.m. | Shad Roundy: Advanced materials MRI: Thick AIN for piezoelectric and thermal conductivity | | |

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The following are participating in the rapid-fire intros:

Market Pull = MP

Tech Push = TP

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| | 3:22 p.m. | Afternoon break |
| | 3:40 p.m. TP | Brian Van Devenor - U of U Surface Analysis Lab: 3D tomographic elemental mapping at the nanometer scale |
| 2:05 p.m. TP | | Mary Cardon - Utah's SBIR/STTR Assistance Program: USTAR small business resource center |
| 2:12 p.m. TP | 3:47 p.m. TP | Randy Polson - U of U Surface Analysis Lab: Multi-scale correlative microscopy: ways to image and visualize the same sample location from the mm scale to the Å scale |
| | 3:54 p.m. TP | Loren Rieth - U of U Center for Engineering Innovation: Tools and resources to help engineer at the microscale when you do not understand the thin film tools |
| 2:19 p.m. MP | 4:01 p.m. TP | Bruce Gale - Director, Utah Nanofab: Microfluidics prototyping labs |
| | 4:08 p.m. TP | Michael Granger - U of U: What a Vibrating Sample Magnetometer VSM in the Nanofab can do for you |
| 2:26 p.m. TP | 4:15 p.m. TP | Paulo Perez - U of U Surface Analysis Lab: New SEM techniques available |
| 2:33 p.m. TP | 4:22 p.m. TP | David Petrucci - Hydrogena: Evolving H ₂ gas from inexpensive renewable sources |
| | 4:29 p.m. TP | Zhiheng Liu - U of U: Nanoscale characterization available through SEM/CL and nanoRaman |
| 2:40 p.m. TP | 4:36 p.m. TP | Taylor Sparks - U of U: Resources at the MSE Materials Characterization Lab |
| 2:47 p.m. TP | 4:43 p.m. TP | Steve Pritchett - Utah Nanofab Staff Engineer: Techniques for wafer thinning, controlled reactive thin film sputter deposition |
| 2:54 p.m. TP | | |
| 3:01 p.m. MP | | |
| 3:08 p.m. TP | | |
| 3:15 p.m. TP | | |