

# DOE-NP SBIR/STTR Exchange Meeting

August 13-14, 2019

Courtyard Marriott

Gaithersburg Washingtonian Center

## Meeting Agenda-Day 1

Time	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status	Attendance Status
<b>Tuesday, August 13, 2019</b>							
8:30 AM	5	Welcome and Introductory Remarks	Farkhondeh, Manouchehr	DOE, Office of Nuclear Physics			
8:35 AM	35	NP SBIR/STTR Program Overview	Shinn, Michelle	DOE, Office of Nuclear Physics			
1 9:10 AM	20	Harvesting, Monitoring and Radiochemical Separation	Hull, Ethan	PHDs Co., TN	Instrumentation	End Year 1	Y
2 9:30 AM	20	Low Cost, High-Density Digital Electronics for Nuclear Physics	Skulski, Wojtek	SkuTek Instrumentation, NY	Electronics	End Year 1/PH IIB	Y
3 9:50 AM	20	A Magnetized Injector for Electron Cooling Applications	Mayes, Christopher	Xelera Research LLC, NY	Accelerator	End Year 2/NCE	Y
10:10 AM	25	Coffee Break (poster session)					
10:35 AM	35	NP Low Energy Facilities and the SBIR/STTR Program	Dickerson, Clay	Argonne National Laboratory			Y
4 11:10 AM	20	Techniques for energetic ion assisted in-situ coating of long, small diameter, beam pipes with compacted thick crystalline copper film	Custer, Arthur	Poole Ventura Inc, CA	Accelerator	End Year 1	Y
5 11:30 AM	20	Development of Gen-II LAPPDTM Systems For Nuclear Physics Experiments	Foley, Michael	Incom Inc., MA	Instrumentation	End Year 2/new IIA	Y
11:50 AM	75	Lunch Break (on your own)					
1:05 PM	35	Jefferson Lab and the NP SBIR/STTR Program	Keppel, Cynthia	Thomas Jefferson National Accelerator Facility			Y
6 1:40 PM	20	Accurate Spin Tracking on Modern Computer Architectures for Electron-Ion Collisions	Abell, Dan	RadiaSoft LLC, CO	Accelerator	End Year 1	Y
7 2:00 PM	20	High power, high repetition rate, 700 – 850 nm pulsed laser	Tian, Wenyan	Q-Peak, Inc., MA	Accelerator	End Year 2	Y
8 2:20 PM	20	Design and Fabrication of the ASoC: a System-on-Chip Data Acquisition System	Mostafanezhad, Isar	Nalu Scientific, LLC, HI	Electronics	End Year 2	Y
9 2:40 PM	20	IP Access Gateway	Radulescu, Radu	Telluric Labs, NJ	Electronics	End Year 1	Y
3:00 PM	25	Coffee Break (poster session)					
10 3:25 PM	20	Distributed digital data acquisition system with network time synchronization	Warburton, William	XIA LLC, CA	Software	End of Year 1	Y
11 3:45 PM	20	Dynamic friction in magnetized electron coolers for relativistic beams	Bruhweiler, David	RadiaSoft LLC, CO	Accelerator	End Year 2/ new IIA	Y
12 4:05 PM	20	A novel ionizing particle beam fluence and position detector array using the Micromegas technology with multi-coordinate readout	Galyaev, Evgeny	Radiation Detection and Imaging Technologies, LLC, AZ	Instrumentation	End Year 1	Y
13 4:25 PM	20	Manufacturing and Packaging of Reliable Bialkali Photocathodes via Sputtering	Bhandari, Harish	Radiation Monitoring Devices, Inc., MA	Accelerator	End Year 1	Y
4:45 PM	60	Optional Gathering to Discuss Challenges and Best Practices for Commercialization					

## DOE-NP SBIR/STTR Exchange Meeting

### Meeting Agenda-Day 2

Time	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status	Attendance Status	
<b>Wednesday, August 14, 2019</b>								
14	8:30 AM	20	A Scalable Additive Manufacturing Technology For Large Area Printed Circuit Boards	Kumar, Nalin	UHV Technologies, Inc., KY	Electronics	End Year 1	Y
15	8:50 AM	20	Scintillating Bolometer Crystal Growth and Purification for Neutrinoless Double Beta Decay Experiments	Bhandai, Harish	Radiation Monitoring Devices, Inc., MA	Instrumentation	End Year 2/new IIA	Y
16	9:10 AM	20	Long length welded NbTi CIC superconducting Cable for Accelerator Applications	Tomsic, Michael	Hyper Tech Research, Inc., OH	Accelerator	End Year 2	Y
17	9:30 AM	20	12-bit 32 Channel 500MSps Low Latency ADC	Baranauskas, Dalius	Pacific Microchip, CA	Accelerator	End Year 1	Y
	9:50 AM	25	Coffee Break (poster session)					
19	10:15 AM	20	Long-Term Radiation Rugged Rotary Vacuum and Water Seals in Heavy-Ion Accelerators	Lalli, Jennifer	NanoSonic, Inc, VA	Instrumentation	End Year 1	Y
	10:35 AM	35	The Relativistic Heavy Ion Collider Facility and its SBIR/STTR Opportunities		Carini, Gabriella	Brookhaven National Laboratory		Y
20	11:10 AM	20	A novel injection-locked amplitude-modulated magnetron at 1497 MHz	Johnson, Rolland	Muons, Inc., IL	Accelerator	End Year 2/NCE	Y
	11:30 AM	75	Lunch Break (on your own)					
21	12:45 PM	20	Multi-Channel Readout IC for Nuclear Physics Experiments	Bikkina, Phaneendra	Alphacore Inc., AZ	Instrumentation	End Year 1	Y
	1:05 PM	35	DOE Isotope Program and Facilities and the SBIR/STTR Program		Birnbaum, Eva	Los Alamos National Laboratory		Y
22	1:40 PM	20	Resonant Polarimetry and Magnetometry.	Roberts, Brock	Electrodynamic, NM	Accelerator	End Year 1	Y
23	2:00 PM	20	High Power Extremely Narrow Linewidth Diode Laser for Polarizing <sup>3</sup> He Target	Lu, Steven	Raytum Photonics, VA	Instrumentation	End Year 1	Y
24	2:20 PM	20	Low RF loss DC conductive Ceramic for High Power Input Coupler Windows for SRF Cavities	Kanareykin, Alexei	Euclid Techlabs LLC, OH	Accelerator	End Year 1/PH IIB	Y
	2:40 PM	25	Coffee Break (poster session)					
25	3:05 PM	20	Multi-scale modeling for beam-beam depolarization	Zilberter, Ilya	Tech-X Corporation, CO	Accelerator	End Year 2	Y
	3:25 PM	35	Update on the Department of Energy SBIR/STTR Program, Q/A		Cantoni, Claudia	DOE, SBIR/STTR Office		
	4:00 PM	0	Adjourn					

## DOE-NP SBIR/STTR Exchange Meeting

### Poster Presentations\*

	Grant Title	Presenter	Organization	NP SBIR/ STTR Topic	Grant Status	Attendance Status
<b>Tuesday &amp; Wednesday, August 13-14, 2019</b>						
26	Diamond Strip Detectors for Charged Particle Tracking	Tabeling, Joseph	Applied Diamond, Inc., DE	Instrumentation	End of Year 2	Y
27	Robust Wire Scanner for High Intensity Beam Profile Diagnostics	Andonian, Gerard	Radiabeam Technologies, LLC., CA	Accelerator	End of Year 2/NCE	Y
28	Pixel Array Germanium Detectors for Nuclear Physics	Kiser, Matthew	PHDs Co., TN	Instrumentation	End of Year 2/NCE	Y
29	Data Processing Electronics for Silicon Photomultipliers	Skulski, Wojtek	SkuTek Instrumentation, NY	Electronics	Year II/PH IIB	Y
30	Flat Field Emitter Based on Ultrananocrystalline Diamond (UNCD) Film for SRF Technology	Kanareykin, Alexei	Euclid Techlabs, LLC, OH	Accelerator	End of Year 2	Y
31	Radiation Hard High Speed Camera System for Accelerator Beam Diagnostics	Bikkina, Phaneendra	Alphacore Inc, AZ	Instrumentation	Year II/PH IIA	Y
32	Acid-Free Electropolishing of SRF Cavities	Hall, Timothy	Faraday Technology, Inc., OH	Accelerator	End of Year 2/NCE	Y
33	Refractory Oxides with Tunable Porosity and Geometry as Versatile Fast-Release Solid Catchers for Rare Isotopes	Sampathkumaran, Uma	InnoSense LLC, Torrance, CA	Instrumentation	Year 2 Phase IIB/NCE	

\* Posters will be displayed in the meeting room and the presenters available during coffee breaks