

DOE-NP SBIR/STTR Exchange Meeting

August 13-14, 2020

Via Zoom

Meeting Agenda-Day 1

Rows in blue font will be held in the Session B room

Time	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Thursday, August 13, 2020						
10:00 AM	5	Welcome and Introductory Remarks	Gillo, Jehanne	DOE, Office of Nuclear Physics		
10:05 AM	5	Welcome and Introductory Remarks	Farkhondeh, Manouchehr	DOE, Office of Nuclear Physics		
10:10 AM	35	NP SBIR/STTR Program Overview	Shinn, Michelle	DOE, Office of Nuclear Physics		
10:45 AM	20	Manufacturing and Packaging of Reliable Alkali Photocathodes via Sputtering	Bhandari, Harish	Radiation Monitoring Devices, Inc., MA	Accelerator	End Year 2
11:05 AM	20	HOM Absorber Design for eRHIC ERL Cavity	Schultheiss, Thomas	TJS Technologies, NY	Accelerator	End Year 1
11:25 AM	15	Coffee Break				
11:40 AM	35	NP Low Energy Facilities and the SBIR/STTR Program	Chipps, Kelly	Oak Ridge National Laboratory		
12:15 PM	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 2
12:35 PM	20	Development of Gen-II LAPPDTM Systems For Nuclear Physics Experiments	Foley, Michael	Incom Inc., MA	Instrumentation	End Year 1/Ph IIA
12:55 PM	35	Lunch Break				
1:30 PM	35	Jefferson Lab and the NP SBIR/STTR Program	Spata, Michael	Thomas Jefferson National Accelerator Facility		
2:05 PM	5	Break - allow movement between sessions as needed				
2:10 PM	20	Nuclear Physics Gamma-ray Imaging System for Real-Time Rare Isotope Harvesting, Monitoring and Radiochemical Separation	Hull, Ethan	PHDs Co., TN	Instrumentation	End Year 2
2:10 PM	20	Multi-scale Modeling for Beam-beam Depolarization	Zilberter, Ilya	Tech-X Corporation, CO	Accelerator	End Year 2/NCE
2:30 PM	20	Accurate Spin Tracking on Modern Computer Architectures for Electron-Ion Colliders	Nash, Boaz	RadiaSoft LLC, CO	Accelerator	End Year 2
2:50 PM	5	Break - allow movement between sessions as needed				
2:55 PM	20	IP Access Gateway	Radulescu, Radu	Telluric Labs, NJ	Electronics	End Year 2
2:55 PM	20	A Novel Injection-locked Amplitude-Modulated Magnetron at 1497 MHz	Neubauer, Mike	Muons, Inc., IL	Accelerator	End Year 2/NCE
3:15 PM	20	Distributed Digital Data Acquisition System with Network Time Synchronization	Hennig, Wolfgang	XIA LLC, CA	Software	End of Year 2
3:35 PM	20	Dynamic Friction in Magnetized Electron Coolers for Relativistic Beams	Bruhwiller, David	RadiaSoft LLC, CO	Accelerator	End Year 1 Ph IIA
3:55 PM	20	Radiation Hard High Speed Camera System for Accelerator Beam Diagnostics	Engelman, Matt	Alphacore Inc, AZ	Instrumentation	Year II/PH IIA

4:15 PM	5	Break - allow movement between sessions as needed				
4:20 PM	20	A Multi-channel Radiation-tolerant, Low power, High-speed, and Resolution Analog-to-Digital Converter for Nuclear Physics Detectors	Gui, Ping	TallannQuest LLC, TX	Electronics	End Year 1
4:20 PM	20	Software-Driven Network Architecture for Synchronous Data Acquisition	McMillian, Gary	Crossfield Technology LLC, TX	Software	End Year 2/NCE
4:40 PM	20	Automated Preparation of ²¹¹ At for Targeted Alpha Therapy Applications	Marshall, Graham	Global FIA, Inc., WA	Isotope	End Year 1
5:00 PM	5	Break - allow movement between sessions as needed				
5:05 PM	20	Low Cost Data Acquisition Synchronization for Nuclear Physics Applications	Skulski, Wojtek	SkuTek Instrumentation, NY	Software	End Year 1
5:05 PM	20	A Magnetized Injector for Electron Cooling Applications	Smolenski, Karl	Xelera Research LLC, NY	Accelerator	End Year 2/NCE
5:25 PM	20	Modeling Plasma Discharge Cleaning of SRF Cavities	Leddy, Jarrod	Tech-X Corporation, CO	Accelerator	End Year 1
5:45 PM	0	Adjorn				

DOE-NP SBIR/STTR Exchange Meeting

Meeting Agenda-Day 2

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Time	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Friday, August 14, 2020						
10:00 AM	20	A Scalable Additive Manufacturing Technology For Large Area Printed Circuit Boards	Kumar, Nalin	UHV Technologies, Inc., KY	Electronics	End Year 2
10:20 AM	20	Scintillating Bolometer Crystal Growth and Purification for Neutrinoless Double Beta Decay Experiments	Squillante, Michael	Radiation Monitoring Devices, Inc., MA	Instrumentation	End Year 1/Ph IIA
10:40 AM	20	Boron Nitride Nanotube Vibration Damping for SRF Structures	Whitney, Roy	BNNT, LLC, VA	Accelerator	End Year 1
11:00 AM	15	Coffee Break				
11:15 AM	20	Long-Term Radiation Rugged Rotary Vacuum and Water Seals in Heavy-Ion Accelerators	Lalli, Jennifer	NanoSonic, Inc, VA	Instrumentation	End Year 2
11:35 AM	35	The Relativistic Heavy Ion Collider Facility and its SBIR/STTR Opportunities	Minty, Michiko	Brookhaven National Laboratory		
12:10 PM	20	12-bit 32 Channel 500MSps Low Latency ADC	Baranauskas, Dalius	Pacific Microchip, CA	Accelerator	End Year 2
12:30 PM	20	Radiation Hardened Opto-atomic Magnetometer	Choi, Jae	Hedgefog Research Inc., CA	Instrumentation	End Year 1
12:50 PM	35	Lunch Break				
1:25 PM	20	Multi-Channel Readout IC for Nuclear Physics Experiments	Mikkola, Esko	Alphacore Inc., AZ	Instrumentation	End Year 2

1:25 PM	20	Long length Welded NbTi CIC Superconducting Cable for Accelerator Applications	Tomsic, Michael	Hyper Tech Research, Inc., OH	Accelerator	End Year 2/NCE
1:45 PM	20	Resonant Polarimetry and Magnetometry.	Roberts, Brock	Electrodynamic, NM	Accelerator	End Year 2
2:05 PM	35	Update on the Department of Energy SBIR/STTR Program, Q/A	Oliver, Manny	DOE, SBIR/STTR Office		
2:40 PM	20	High Power Extremely Narrow Linewidth Diode Laser for Polarizing ³ He Target	Lu, Steven	Raytum Photonics, VA	Instrumentation	End Year 2
3:00 PM	5	Break - allow movement between sessions as needed				
3:05 PM	20	Low RF Loss DC Conductive Ceramic for High Power Input Coupler Windows for SRF Cavities	Freemire, Ben	Euclid Techlabs LLC, OH	Accelerator	End Year 2 PH IIB
3:05 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/NCE
3:25 PM	15	Coffee Break				
3:40 PM	20	Graphene Backing for Radioisotope Targets	Fink, Richard	Applied Nanotech, Inc., TX	Instrumentation	End Year 2
4:00 PM	20	An ASIC with a Low Power Multichannel ADC for Energy and Timing Measurements	Karnitski, Anton	Pacific Microchip Corporation, CA	Instrumentation	End Year 1
4:20 PM	20	Radiation Hardened Infrared Focal Plane Arrays	Chang, Yong	Epir, Inc., IL	Instrumentation	End Year 1
4:40 PM	20	Precise and Ultra-stable Laser Polarization Control for Polarized Electron Beam Generation	Guo, Bo	Raytum Photonics LLC, VA	Instrumentation	End Year 1
5:00 PM	5	Break - allow movement between sessions as needed				
5:05 PM	20	Low Cost, High-Density Digital Electronics for Nuclear Physics	Skulski, Wojtek	SkuTek Instrumentation, NY	Electronics	End Year 2 Ph IIB
5:05 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 2/NCE
5:25 PM	0	Adjourn				