

# DOE-NP SBIR/STTR Exchange Meeting

August 13-15, 2024

Washingtonian Marriott

## Meeting Agenda-Day 1

Time (EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
<b>Tuesday, August 13, 2024</b>						
9:00 AM	0:03	Welcome and Introductory Remarks	Mantica, Paul	DOE, Office of Nuclear Physics		
9:03 AM	0:02	Welcome and Introductory Remarks	Farkhondeh, Manouchehr	DOE, Office of Nuclear Physics		
9:05 AM	0:40	NP SBIR/STTR Program Overview	Shinn, Michelle	DOE, Office of Nuclear Physics		
9:45 AM	0:25	Novel Insulators in Silicon-on-Insulator Substrates to Improve Nuclear	O'Connor, Kevin	Caporus Technologies, LLC, IL	Electronics	End Year 1
10:10 AM	0:25	High Performance Scintillator for Nuclear Physics Research	Datta, Amlan	CapeSym, Inc., Natick, MA	Instrumentation	End Year 2
10:35 AM	0:25	Coffee Break				
11:00 AM	0:25	Versatile, High-Density, High-Yield, Low-Capacitance 3D Integration for Nuclear Physics Detectors	Sonde, Sushant	Epir, Inc., IL	Electronics	End Year 1
11:25 AM	0:25	Inexpensive Low Noise Fast Switching DC High Voltage Power Supply	Sadwick, Larry	INNOSYS, INC., UT	Accelerator	End Year 2
11:50 AM	0:25	High-Density Glass with Tuned Scintillation/Cherenkov Response to	Horn, Tanja	Scintilex, LLC, VA	Instrumentation	End Year 2
12:15 PM	1:40	Lunch Break				
1:55 PM	0:25	A Multichannel DSP ASIC for Streaming Readout	Karnitski, Anton	Pacific Microchip Corporation, CA	Electronics	End Year 1
2:20 PM	0:25	Helium Flow Meter	Biallas, George	Hyperboloid LLC, VA	Accelerator	End Year 1
2:45 PM	0:25	Radiation Hardened Opto-atomic Magnetometer	Engelhart, Daniel	Hedgefog Research Inc., CA	Instrumentation	End Year 2/Ph IIA
3:10 PM	0:25	3D Printed Bimetallic Structures for Radio Frequency Devices	Bump, Maggie	Nanosonic, VA	Accelerator	End Year 1
3:35 PM	0:25	Coffee Break				
4:00 PM	0:25	High Performance Glass Scintillators for Nuclear Physics Experiments	Horn, Tanja	Scintilex, LLC, VA	Instrumentation	End Year 1/IIA
4:25 PM	0:25	High Performance High Current CW polarized photocathodes for Electron Ion Colliders	Vasudevan, Kannan	Structured Materials Industries, Inc., NJ	Accelerator	End Year 1
4:50 PM	0:15	Adjourn				
5:05 PM	60	Optional Gathering to Discuss Challenges and Best Practices for Commercialization				

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## Meeting Agenda-Day 2

Time (EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
<b>Wednesday, August 14, 2024</b>						
9:00 AM	0:25	Data Management for High Speed, Distributed Data Acquisition	Maggio, Jeffrey	SkuTek Instrumentation, NY	Software	End Year 2
9:25 AM	0:25	An ASIC with a Low Power Multichannel ADC for Energy and Timing	Karnitski, Anton	Pacific Microchip Corporation, CA	Electronics	End Year 2/Ph IIB
9:50 AM	0:25	Development and Testing of an Advanced HOM Absorber Design for SRF Accelerators Using Dielectric-Coated Cores	Arrieta, Victor	Ultramet, Pacoima, CA	Accelerator	End Year 2/Ph IIA
10:15 AM	0:25	High Output Pulsed Power Source	Smirnov, Alexander	Radiabeam Technologies, LLC., CA	Accelerator	End Year 2
10:40 AM	0:25	Coffee Break				
11:05 AM	0:25	Boron Nitride Nanotube Vibration Damping for SRF Structures	Whitney, Roy	BNNT, LLC, Newport News, VA	Accelerator	End Year 2/PIIA
11:30 AM	0:25	Organic Glass Scintillators for Nuclear Physics Experiments	van Loef, Edgar	Radiation Monitoring Devices, Inc., MA	Instrumentation	End Year 2
11:55 AM	0:25	Sheet Electron Probe for Beam Tomography	Cummings, Mary Anne	Muons, Inc., Batavia, IL	Accelerator	End Year 2
12:20 PM	1:40	Lunch Break				
2:00 PM	0:25	Large Volume Ring-Contact HPGe Detectors (RCD) for Low-Background	Hull, Ethan	PHDS Co., Knoxville, TN	Instrumentation	End Year 2
2:25 PM	0:25	Compact, low-cost higher order mode absorbers formed by cold spray of metal matrix composites	Carriere, Paul	Radiabeam Technologies, LLC., CA	Accelerator	End Year 2
2:50 PM	0:25	High Performance Scintillator and Beam Monitoring System	Friedman, Peter	Integrated Sensors, LLC, OH	Instrumentation	End Year 1/IIB
3:15 PM	0:40	Update on the Department of Energy SBIR/STTR Program, Q/A	Oliver, Manny	DOE, SBIR/STTR Office		
3:55 PM	0:25	Coffee Break				
4:20 PM	0:25	Design and Fabrication of the HDSoc- High Density Digitizer System-on-Chip	Mostafanezhad, Isar	Nalu Scientific LLC, HI	Electronics	Year 3/NCE
4:45 PM	0:25	A New Medium Field Superconducting Magnet for the EIC	Gupta, Ramesh	Particle Beam Lasers, Inc., CA	Accelerator	End Year 2
5:10 PM	0:25	Fast, Large Area Detector for Position and Energy Determination	Konovalov, Valeriy	Applied Diamond, Inc., DE	Instrumentation	End Year 2
5:35 PM	0:25	Scalable Micron-Sized Flexible Interconnects Enabled by Dielectric-Metal	Abbaspour, Reza	DUJUD LLC, GA	Electronics	End Year 2
6:00 PM	0:15	Adjourn				

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## Meeting Agenda-Day 3

Time(EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
<b>Thursday, August 15, 2024</b>						
9:00 AM	0:25	Novel High Voltage Cryogenic Breaks	Rey, Christopher	Energy to Power Solutions (e2P), FL	Accelerator	End Year 2
9:25 AM	0:25	High-Quality Conductive Bellows Coatings Using Conformal Ionized PVD To Replace Unreliable Electroplating Processes	Stubbers, Robert	Starfire Industries LLC, IL	Accelerator	End Year 2
9:50 AM	0:25	High Performance FPGA-based Embedded System for Decision Making in Scientific Environments	Sun, Yu	Sunrise Technology, Inc, NY	Software	End Year 3/ASCR cofund
10:15 AM	0:25	Additively Manufactured Z-Channel Detectors for Heavy Ion Accelerator	Moore, Jerome	Robot Nose Corporation, IL	Accelerator	End Year 2/NCE
10:40 AM	0:25	<b>Coffee Break</b>				
11:05 AM	0:25	HOM Absorber Design for eRHIC ERL Cavity	Schultheiss, Tom	TJS Technologies, NY	Accelerator	End Year 3/IIA NCE
11:30 AM	0:25	Digital Data Acquisition with High Resolution and Linearity	Skulski, Wojtek	SkuTek Instrumentation, NY	Instrumentation	End Year 3/NCE
11:55 AM	0:25	Long-Term Radiation Rugged Rotary Vacuum and Water Seals in Heavy-Ion Accelerators	Lalli, Jennifer	NanoSonic, Inc., VA	Accelerator	End Year 3
12:20 PM	1:40	<b>Lunch Break</b>				
2:00 PM	0:25	Design and fabrication of the "AODS": All-in-One Digitizer System-on-Chip	Mostafanezhad, Isar	Nalu Scientific, LLC, HI	Electronics	End Year 3/NCE
2:25 PM	0:25	Resonant Polarimetry and Magnetometry	Roberts, Brock	Electrodynamic, NM	Accelerator	End Year 4/NCE
2:50 PM	0:25	An RF beam Sweeper for Purifying In-Flight Produced Rare Isotope Beams	Smirnov, Alexander	RadiaBeam Systems, CA	Accelerator	End Year 3/NCE
3:15 PM	0:25	A New Approach to Achieving High Granularity in Low-Gain Avalanche Detectors	Islam, Rafiqul	Cactus Materials, AZ	Electronics	End Year 4/NCE
3:40 PM	0:25	<b>Coffee Break</b>				
4:05 PM	0	<b>Adjourn</b>				