

DOE-NP SBIR/STTR Exchange Meeting

July 29-30, 2025

Meeting Agenda-Day 1

Time (EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Tuesday, July 29, 2025						
11:00 AM	0:03	Welcome and Introductory Remarks	Mantica, Paul	DOE, Office of Nuclear Physics		
11:03 AM	0:02	Introductory Remarks	Farkhondeh, Manouchehr	DOE, Office of Nuclear Physics		
11:05 AM	0:40	NP SBIR/STTR Program Overview	Shinn, Michelle	DOE, Office of Nuclear Physics		
11:45 AM	0:25	A High Power Positron Converter Based on Recirculating Free Surface Liquid Metal Jets in Vacuum	Koustron, Val	Xelera Research LLC, Ithaca, NY	Accelerator	End Year 1
12:10 PM	0:25	High Spatial Resolution Detectors for Nuclear Physics Applications	Datta, Amlan	CapeSym, Inc., Natick, MA	Instrumentation	End Year 1
12:35 PM	0:20	Coffee Break				
12:55 PM	0:25	High Performance High Current CW polarized photocathodes for Electron Ion Colliders	Vasudevan, Kannan	Structured Materials Industries, Inc., NJ	Accelerator	End Year 2
1:20 PM	0:25	Versatile, High-Density, High-Yield, Low-Capacitance 3D Integration for Nuclear Physics Detectors	Sonde, Sushant	Epir, Inc., IL	Electronics	End Year 2/NCE
1:45 PM	0:25	High Average Current and High Voltage Reliable and Stable Power Supplies for High Current Electron Beam Sources	Sadwick, Larry	INNOSYS, INC., UT	Accelerator	End Year 1
2:10 PM	0:30	Lunch Break				
2:40 PM	0:25	High Channel Density Digital Data Acquisition System	Skulski, Wojtek	SkuTek Instrumentation, NY	Accelerator	End Year 1
3:05 PM	0:25	Molybdenum-100 Reclamation and Purification for Neutrinoless Double-Beta Decay Experiments	Tower, Joshua	Radiation Monitoring Devices, Inc. Watertown, MA	Instrumentation	End Year 1
3:30 PM	0:25	Helium Flow Meter	Biallas, George	Hyperboloid LLC, VA	Accelerator	End Year 2
3:55 PM	0:25	3D Printed Bimetallic Structures for Radio Frequency Devices	Lalli, Jennifer	Nanosonic, VA	Accelerator	End Year 2/Ph IIA
4:20 PM	0:15	Coffee Break				
4:35 PM	0:25	Ultra-Rad-Hard Full-HD Image Sensor and Camera for Rare Isotope Beam Facilities	Mikkola, Esko	Alphacore Inc, Tempe, AZ	Electronics	End Year 1
5:00 PM	0:25	Novel Insulators in Silicon-on-Insulator Substrates to Improve Nuclear Physics Sensors and Circuits	O'Connor, Kevin	Caporus Technologies, LLC, IL	Electronics	End Year 2/NCE
5:25 PM	0:15	Adjourn				

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Meeting Agenda-Day 2

Time (EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Wednesday, July 30, 2025						
11:00 AM	0:25	Data Management for High Speed, Distributed Data Acquisition	Maggio, Jeffrey	SkuTek Instrumentation, NY	Software	End Year 2/NCE
11:25 AM	0:25	A New Medium Field Superconducting Magnet for the EIC	Gupta, Ramesh	Particle Beam Lasers, Inc., CA	Accelerator	End Year 3/NCE
11:50 AM	0:25	High Performance Glass Scintillators for Nuclear Physics Experiments	Horn, Tanja	Scintilex, LLC, VA	Instrumentation	End Year 2/IIA
12:15 PM	0:20	Coffee Break				
12:35 PM	0:25	High Performance Scintillator for Nuclear Physics Research	Datta, Amlan	CapeSym, Inc., Natick, MA	Instrumentation	End Year 3/NCE
1:00 PM	0:25	Novel High Voltage Cryogenic Breaks	Rey, Christopher	Energy to Power Solutions (e2P), FL	Accelerator	End Year 3/NCE
1:25 PM	0:25	High Output Pulsed Power Source	Smirnov, Alexander	Radiabeam Technologies, LLC., CA	Accelerator	End Year 3/NCE
1:50 PM	0:30	Lunch Break				
2:20 PM	0:25	Development of Ultra Low Radioactivity Cables and Circuitry	Chirag Patel/Eduardo Lopez	Q-FLEX INC, Santa Ana, CA	Instrumentation	End Year 3/NCE
2:45 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
3:10 PM	0:25	Radiation Hardened Opto-atomic Magnetometer	Engelhart, Daniel	Hedgefog Research Inc., CA	Instrumentation	End Year 2/Ph IIA
3:35 PM	0:20	Coffee Break				
3:55 PM	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
4:20 PM	0:40	Update on the Department of Energy SBIR/STTR Program, Q/A	Chant, Eileen	DOE, SBIR/STTR Office		
5:00 PM	0:15	Adjourn				