

DOE-NP SBIR/STTR Exchange Meeting

August 15-17, 2023

DoubleTree by Hilton Washington DC North/Gaithersburg and via Zoom

Meeting Agenda-Day 1

Time (EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Tuesday, August 15, 2023						
9:00 AM	0:03	Welcome and Introductory Remarks	Hallman, Timothy	DOE, Office of Nuclear Physics		
9:03 AM	0:02	Welcome and Introductory Remarks	Farkhondeh, Manouchehr	DOE, Office of Nuclear Physics		
9:05 AM	0:35	NP SBIR/STTR Program Overview	Shinn, Michelle	DOE, Office of Nuclear Physics		
9:40 AM	0:20	Data Management for High Speed, Distributed Data Acquisition	Maggio, Jeffrey	SkuTek Instrumentation, NY	Instrumentation	End Year 1
10:00 AM	0:20	High Voltage Pulse Generator for High-Energy Beam Kickers	Prager, James	Eagle Harbor Technologies, Inc.,	Accelerator	End Year 1
10:20 AM	0:20	High Performance Scintillator for Nuclear Physics Research	Datta, Amlan	CapeSym, Inc., Natick, MA	Instrumentation	End Year 1
10:40 AM	0:25	Coffee Break				
11:05 AM	0:20	Scalable Micron-Sized Flexible Interconnects Enabled by Dielectric-Metal	Abbaspour, Reza	DUJUD LLC, Atlanta, GA	Electronics	End Year 1
11:25 AM	0:20	Inexpensive Low Noise Fast Switching DC High Voltage Power Supply	Sadwick, Larry	INNOSYS, INC., SALT LAKE CITY, UT	Accelerator	End Year 1
11:45 AM	0:20	High-Density Glass with Tuned Scintillation/Cherenkov Response to	Pegg, Ian	Scintilex, LLC, Alexandria, VA	Instrumentation	End Year 1
12:05 PM	1:30	Lunch Break				
1:35 PM	0:20	Organic Glass Scintillators for Nuclear Physics Experiments	Shirwadkar, Urmila	Radiation Monitoring Devices, Inc.,	Instrumentation	End Year 1
1:55 PM	0:20	Compact, low-cost higher order mode absorbers formed by cold spray of	Carriere, Paul	Radiabeam Technologies, LLC., CA	Accelerator	End Year 1
2:15 PM	0:20	Development of Ultra Low Radioactivity Cables and Circuitry	Uka, Harshad	Q-FLEX INC, Santa Ana, CA	Instrumentation	End Year 1
2:35 PM	0:20	A New Medium Field Superconducting Magnet for the EIC	Gupta, Ramesh	Particle Beam Lasers, Inc., CA	Accelerator	End Year 1
2:55 PM	0:20	Fast, Large Area Detector for Position and Energy Determination	Konovalov, Valeriy	Applied Diamond, Inc., DE	Instrumentation	End Year 1
3:15 PM	0:20	High Output Pulsed Power Source	Smirnov, Alexander	Radiabeam Technologies, LLC., CA	Accelerator	End Year 1
3:35 PM	0:25	Coffee Break				
4:00 PM	0:20	Sheet Electron Probe for Beam Tomography	Dudnikov, Vadim	Muons, Inc., Batavia, IL	Accelerator	End Year 1
4:20 PM	0:20	Novel High Voltage Cryogenic Breaks	Rey, Christopher	Energy to Power Solutions (e2P),	Accelerator	End Year 1
4:40 PM	0:20	An ASIC with a Low Power Multichannel ADC for Energy and Timing Measurements	Karnitski, Anton	Pacific Microchip Corporation, Culver City, CA	Electronics	End Year 1/Ph IIB
5:00 PM	0:20	Radiation Hardened Opto-atomic Magnetometer	Choi, Jae	Hedgefog Research Inc., CA	Instrumentation	End Year 1/Ph IIA
5:20 PM	0:20	Adjourn				
5:40 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
Wednesday, August 16, 2023						
9:00 AM	0:20	HOM Absorber Design for eRHIC ERL Cavity	Schultheiss, Tom	TJS Technologies, NY	Accelerator	End Year 2 Phase IIA
9:20 AM	0:20	Radiation Hardened Infrared Focal Plane Arrays	Chang, Yong	Epir, Inc., IL	Instrumentation	End of Year 2/IIA
9:40 AM	0:20	Low-cost and Efficient Cooling of on-Detector Electronics Using Conformal Thermoelectric Modules	Joshi, Giri	Nanohmics, Inc., Austin, TX	Electronics	End Year 2/NCE
10:00 AM	0:20	Fast Multi-Harmonic Kickers	Roberts, Brock	Electrodynamic, NM	Accelerator	End Year 2/NCE
10:20 AM	0:20	Large Volume Ring-Contact HPGe Detectors (RCD) for Low-Background	Hull, Ethan	PHDS Co., Knoxville, TN	Instrumentation	End Year 2
10:40 AM	0:25	Coffee Break				
11:05 AM	0:20	High Performance Glass Scintillators for Nuclear Physics Experiments	Pegg, Ian	Scintilex, LLC, Alexandria, VA	Instrumentation	End Year 2
11:25 AM	0:20	Low RF loss DC conductive Ceramic for High Power Input Coupler Windows for SRF Cavities	Freemire, Ben	Euclid Techlabs, LLC, OH	Accelerator	End Year 3/Ph IIA
11:45 AM	0:20	CMOS Integrated With Float Zone Pixel Sensor	Patti, Robert	NHanced Semiconductors, Inc., IL	Electronics	End Year 2
12:05 PM	0:20	High-Quality Conductive Bellows Coatings Using Conformal Ionized PVD To Replace Unreliable Electroplating Processes	Houlahan, Thomas	Starfire Industries LLC, IL	Accelerator	End Year 2
12:25 PM	1:30	Lunch Break				
1:55 PM	0:20	Boron Nitride Nanotube Vibration Damping for SRF Structures	Whitney, Roy	BNNT, LLC, Newport News, VA	Accelerator	End Year 2/PIIA
2:15 PM	0:20	Large Area Multi-Anode MCP-PMT for High Rate Applications	Foley, Michael	Incom Inc., MA	Instrumentation	End Year 2
2:35 PM	0:20	A browser based toolkit for improved particle accelerator controls	Edelen, Jonathan	RadiaSoft LLC, Boulder, CO	Accelerator	End Year 2
2:55 PM	0:20	High Performance Scintillator and Beam Monitoring System	Friedman, Peter	Integrated Sensors, LLC, OH	Instrumentation	End Year 2
3:15 PM	0:25	Coffee Break				
3:40 PM	0:20	Additively Manufactured Z-Channel Detectors for Heavy Ion Accelerator Diagnostics	Moore, Jerome	Robot Nose Corporation, IL	Accelerator	End Year 3
4:00 PM	0:20	Design and Fabrication of the HDSoc- High Density Digitizer System-on-Chip	Macchiarulo, Luca	Nalu Scientific LLC, HI	Electronics	Year 2
4:20 PM	0:20	Energy Recovery Linac Designs and Studies for Electron Cooling of Hadron	Smolenski, Karl	Xelera Research LLC, Ithaca, NY	Accelerator	End Year 2
4:40 PM	0:20	Supercritical Fluid Separation and Purification of Rare Earth Elements, particularly Lanthanides including 177-Lu, to Lower Energy Consumption,	Sinclair, Laura	CF Technologies, Inc., MA	Isotopes	End Year 3/NCE
5:00 PM	0:20	Digital Data Acquisition with High Resolution and Linearity	Skulski, Wojtek	SkuTek Instrumentation, NY	Electronics	End Year 2/NCE
5:20 PM	0	Adjourn				

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Meeting Agenda-Day 3

Time(EDT)	Dur. (min)	Grant Title	Speaker	Organization	NP SBIR/ STTR Topic	Grant Status
Thursday, August 17, 2023						
9:00 AM	0:20	Diaphanous diamond x-ray beam imaging system	Christian, James	Radiation Monitoring Systems	Instrumentation	Year 3/BES cofund
9:20 AM	0:20	High Performance FPGA-based Embedded System for Decision Making in Scientific Environments	Sun, Yu	Sunrise Technology, Inc, NY	Software	End Year 3/ASCR cofun
9:40 AM	0:20	Automated Preparation Of 211At For Targeted Alpha Therapy Applications	Marshall, Graham	Global FIA, Inc., Fox Island, WA	Isotopes	End Year 4/NCE
10:00 AM	0:20	IP Access Gateway	Radulescu, Radu	Telluric Labs LLC, Red Bank, NJ	Software	End Year 5/NCE
10:20 AM	0:20	Coffee Break				
10:40 AM	0:20	Cold Spray Technology Applications for SRF Cavity Thermal and Mechanical Stabilization.	Kostin, Roman	Euclid Techlabs, LLC, Solon, OH	Accelerator	End Year3/NCE
11:00 AM	0:20	Low Cost, High-Density Digital Electronics for Nuclear Physics	Skulski, Wojtek	SkuTek Instrumentation, NY	Instrumentation	End Year 4/IIB
11:20 AM	0:20	Long-Term Radiation Rugged Rotary Vacuum and Water Seals in Heavy-Ion	Lalli, Jennifer	NanoSonic, Inc., Pembroke, VA	Accelerator	End Year 3
11:40 AM	1:30	Lunch Break				
1:10 PM	0:20	Low Cost Data Acquisition Synchronization for Nuclear Physics Applications	Skulski, Wojtek	SkuTek Instrumentation, NY	Software	End Year 2
1:30 PM	0:20	TTDAQ: A CONTINUOUS FLOW, TIMING AND TRIGGER DAQ SYSTEM	Radulescu, Radu	Telluric Labs, Red Bank, NJ	Software	End Year 3/NCE
1:50 PM	0:20	Ultrafast High Voltage Kicker System Hardware for Ion Clearing Gaps	Smirnov, Alexander	RadiaBeam Systems, CA	Accelerator	End Year 3/NCE
2:10 PM	0:20	Design and fabrication of the "AODS": All-in-One Digitizer System-on-Chip	Mostafanezhad, Isar	Nalu Scientific, LLC, HI	Electronics	End Year 3/NCE
2:30 PM	0:25	Coffee Break				
2:55 PM	0:20	An RF beam Sweeper for Purifying In-Flight Produced Rare Isotope Beams	Kutsaev, Sergey	RadiaBeam Systems, Santa	Accelerator	End Year 2/IIA
3:15 PM	0:20	A New Approach to Achieving High Granularity in Low-Gain Avalanche Detectors	Islam, Rafiqul	Cactus Materials, Tempe, AZ	Electronics	End Year 2
3:35 PM	0:20	Novel methods for in-situ high-density surface cleaning (scrubbing) of ultrahigh vacuum long (100m or longer) narrow tubes to reduce secondary electron yield and outgassing	Poole, Joe/Herschovitsch, Ady	Poole Ventura, Inc., Oxnard, CA & Brookhaven National Lab	Accelerator	Year 3
3:55 PM	0:35	Update on the Department of Energy SBIR/STTR Program, Q/A	Oliver, Manny	DOE, SBIR/STTR Office		
4:30 PM	0	Adjourn				