

## DOE-NP SBIR/STTR Exchange Meeting

October 24-25, 2011

Hilton Washington DC North/Gaithersburg - Montgomery Ballroom

Monday, October 24, 2011

Time	Dur.	Presentation Title	Speaker	Organization	NP SBIR/STTR Topic
8:30 AM	10	Welcome and Introductory Remarks	Tim Hallman/Jehanne Gillo	DOE, Office of Nuclear Physics	
8:40 AM	30	NP SBIR/STTR Program Overview	Manouchehr Farkhondeh	DOE, Office of Nuclear Physics	
9:10 AM	20	The development of an Inexpensive Compact Neutron Generator for Gamma Calibration and Other Applications	Melvin Arthur Piestrup	Adelphi Technology, Inc.	Instrum/Detectors
9:30 AM	20	Cryogenic CMOS Avalanche Diodes for Nuclear Physics Research	Erik Johnson	Radiation Monitoring Devices, Inc.	Instrum/Detectors
9:50 AM	20	Computational Models of Germanium Point Contact Detectors	Paul J. Mullooney	Tech-X Corporation	Instrum/Detectors
10:10 AM	20	Fast, Low Noise Photodetectors for Nuclear Physics	Kanai Shah/Mickel McClish	Radiation Monitoring Devices, Inc.	Instrum/Detectors
<b>10:30 AM</b>	<b>35</b>	<b>Coffee Break</b>			
11:05 AM	30	RHIC Facility and the SBIR/STTR Program	Wolfram Fischer	Brookhaven National Laboratory	NP User Facilities I (RHIC)
11:35 AM	20	Multi-Cavity Proton Cyclotron Accelerator	Jay Hirshfield/Michael LaPointe	Omega-P, Inc.	Accelerator Technology
11:55 AM	20	The Orbiter Project Service Oriented Architecture Web service Components and Applications	Mark L. Green	Tech-X Corporation	Software/Data Managmnt
12:15 PM	20	Development of 500 MHz Multi-Channel Readout Electronics for Fast Radiation Detectors	Wolfgang Hennig/ Konstantin Sabourov	Xia, LLC	Electronics
<b>12:35 PM</b>	<b>65</b>	<b>Lunch Break</b>			
1:40 PM	20	CMOS Solid-State Photomultipliers for High Energy Resoulution Calorimeters	Erik Johnson	Radiation Monitoring Devices, Inc.	Electronics
2:00 PM	20	Energetic Condensation Growth of Thin Films for Future SRF Accelerator	Mahadevan Krishnan	Alameda Applied Sciences Corp.	Accelerator Technology
2:20 PM	20	Integrated Multiple Effects Software for Nuclear Physics Applications	David N. Smithe	Tech-X Corporation	Accelerator Technology
2:40 PM	20	Development of SRF Multi-Spoke Cavities for Electron Linacs	Terry Grimm	Niowave, Inc.	Accelerator Technology
<b>3:00 PM</b>	<b>35</b>	<b>Coffee Break</b>			
3:35 PM	30	TJNAF facility and the SBIR/STTR Program	Charlie Reece	Thomas Jefferson Nat. Acceler. Facility	NP User Facilities II (TJNAF)
4:05 PM	20	Designing a Coherent Electron Colling System for High-Energy Hadron Colliders	David L. Bruhwiler	Tech-x Corporation	Accelerator Technology
4:25 PM	20	New Detector for Gamma Ray and Neutron Studies	Kanai Shah/Mickel McClish	Radiation Monitoring Devices, Inc.	Instrum/Detectors
4:45 PM	20	Magnetometer for the Neutron Electric Dipole Moment Experiment	David Christian Hovde	Southwest Sciences, Inc.	Instrum/Detectors
<b>5:05 PM</b>		<b>Adjourn</b>			

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Time	Dur.	Presentation Title	Speaker	Organization	NP SBIR/STTR Topic
8:30 AM	20	Compact and Efficient Cold and Thermal Neutron Collimators	W. Bruce Feller	NOVA Scientific, Inc.	Instrum/Detectors
8:50 AM	20	Advanced SQUID Sensors and Readout Electronics in Support of the nEDM Experiment and Commerical Applications	Robin Harold Cantor	Star Cryoelectronics, Llc	Instrum/Detectors
9:10 AM	20	Charged Fluid Centrifuge Separators	Alfred Y. Wong	Nonlinear Ion Dynamics, LLC	Instrum/Detectors
<b>9:30 AM</b>	<b>35</b>	<b>Coffee Break</b>			
10:05 AM	30	NP Isotope Program and Facilities and the SBIR Program	Robert Atcher	National Isotope Development Center	NP Isotope Facilities
10:35 AM	20	High-Purity Germanium Crystals for Low Background Counting Arrays	Ethan Hull	PHDs Co.	Instrum/Detectors
10:55 AM	20	An Approach to Chemical Free Surface Processing for High Gradient Superconducting RF Cavities	Frederick Mako	FM Technologies, Inc.	Accelerator Technology
11:15 AM	20	Phase and Frequency Locked Magnetrons for SRF Sources	Michael Neubauer	Muons, Inc.	Accelerator Technology
11:35 AM	20	Status of the 8 kW Power Amplifier for CEBAF	Nikolai Barov	FAR-TECH, Inc.	Accelerator Technology
<b>11:55 AM</b>	<b>65</b>	<b>Lunch Break</b>			
1:00 PM	20	Development of a Tunable 28 MHz Superconducting RF Cavity for RHIC	Terry L. Grimm	Niowave, Inc.	Accelerator Technology
1:20 PM	20	High-Fidelity Modulator Simulations of Coherent Electron Cooling Systems	David L. Bruhwiler	Tech-x Corporation	Accelerator Technology
1:40 PM	20	Charged Particle Induced damage and Recovery of Photocathodes Employed as Nuclear Physics Injector Sources	Gregory Mulhollan	Saxet Surface Science	Accelerator Technology
<b>2:00 PM</b>	<b>35</b>	<b>Coffee Break</b>			
2:35 PM	35	NP Low Energy Facilities and the SBIR/STTR Program	David Radford	Oak Ridge National Laboratory	NP User Facilities III (Low En)
3:10 PM	20	Fast Data Acquisition Electronics: TDCs, ADCs and FPGAs	Lloyd W. Bridges	Blue Sky Electronics, LLC	Electronics
3:30 PM	20	Segmented Rectifying and Blocking Contacts on Germanium Planar Detectors	Ethan Hull	PHDs Co.	Instrum/Detectors
3:50 PM	20	Graphene Stripper Foil	Igor Pavlovsky	Applied Nanotech, Inc.	Instrum/Detectors
<b>4:10 PM</b>	<b>15</b>	<b>Closing Remarks</b>			