

# Accelerator and Detector Research and Development Program Principal Investigators' 2011 Meeting

## POSTER PRESENTERS

### **A CW VHF Laser Photocathode Gun Using a Room Temperature Copper Cavity and Diagnostics**

*John Corlett, Lawrence Berkeley National Laboratory*

### **The Wisconsin Superconducting RF Gun**

*Joseph Bisognano, University of Wisconsin – Madison*

### **R&D Studies for Next Generation Light Sources**

*Gwyn Williams, Thomas Jefferson National Accelerator Laboratory*

### **Photocathodes for High Repetition Rate Light Sources**

- **Alkali Antimonide Cathodes**
- **Diamond Amplifier**

*John Smedley, Brookhaven National Laboratory*

### **Extending Science and Technology Behind High Brightness and Duty-Factor Photoinjectors**

*Ivan Bazarov (Early Career Award), Cornell University*

### **Generation and Characterization of Ultrashort Electron-Beams for X-ray FELs**

*Yuantao Ding (Early Career Award), SLAC National Accelerator Laboratory*

### **Towards Large Dynamic Range Beam Diagnostics and Beam Dynamic Studies**

*Paul Evtushenko (Early Career Award), Thomas Jefferson National*

### **Advanced Neutron Detectors with Pad Readout**

- **Neutron Beam Tests at CB1D of HFIR (Instrument Development Beamline)**

*Graham Smith, Brookhaven National Laboratory*

### **Advanced Detectors for Synchrotron Radiation**

*Peter Siddons, Brookhaven National Laboratory*

### **Detector R&D at LBNL**

*Peter Denes, Lawrence Berkeley National Laboratory*

### **Science “Inside” the Synchrotron Pulse Width: X-ray Pump/Optical Probe Cross-Correlation Study of GaAs**

*Stephen Durbin, Purdue University*

### **Pixel Array Detector Development at Cornell**

*Sol Gruner, Cornell University*

**Microwave Kinetic Inductance Detectors for Synchrotron Hard X-ray Science**

*Antonino Miceli (Early Career Award), Advanced Photon Source*

**Simulation and Development of a Coded Source Neutron Imaging System**

*Philip Bingham (Early Career Award), Oak Ridge National Laboratory*

**Terawatts Hard X-ray FELs for LCLS-II**

*Claudio Pellegrini, University of California at Los Angeles*

**UCLA Pegasus Advanced Photoinjector Laboratory**

*Pietro Musumeci, University of California – Los Angeles*

**Toward Single E-bunch Shape Diagnostics Using THz Coherent Radiation**

*Albert Sievers, Cornell University*

**The Echo-7 Experiment at the NLCTA**

- **Status and Upgrades of the NLCTA for Studies of Advanced Beam Acceleration, Dynamics, and Manipulation**

*Tor Raubenheimer, SLAC National Accelerator Laboratory*

**Modeling of Accelerators for Next Generation Light Sources Using the IMPACT Code Suite**

*John Corlett, Lawrence Berkeley National Laboratory*

**Advanced Electromagnetic Modeling for BES Accelerators with ACE3P**

*Cho Ng, SLAC National Accelerator Laboratory*

**Coherent Light Source R&D at MIT**

*William Graves, Massachusetts Institute of Technology*

**Pulsed Timing and Synchronization Systems**

*Franz Kaertner, Massachusetts Institute of Technology and DESY, Hamburg*

**Status of the MAX IV Storage Rings – Multibend achromats for ultralow emittance (0.3 nm rad)**

*Mikael Eriksson, Max-lab, Lund University, Sweden*

**Accelerator Test Facility**

*Vitaly Yakimenko, Brookhaven National Laboratory*

**SNS Accelerator applications for High Power Proton R&D**

*John Galambos, Oak Ridge National Laboratory*

**Multi-objective Optimization of Storage Ring Dynamic Acceptance and Lifetime**

*Michael Borland, Argonne National Laboratory*

**Performance of Multi Alkali Cathode in JLab DC Gun**

*Triveni Rao, Brookhaven National Laboratory*

**High Stability Electron Beam Regeneration by Longitudinal Feedback Using HGHG Output**

*Li Hua Yu, Brookhaven National Laboratory*

**Femto-second X-ray Pulse Generation by Electron Beam Slicing**

*Ferdinando Willeke, Brookhaven National Laboratory*

**XDL-2011: Workshops on Science at the Hard X-ray Diffraction Limit**

*Joel Brock, Cornell University*

**Superconducting Accelerator R&D for Coherent Light Sources**

*John Mammosser, Thomas Jefferson National Laboratory*