

## **Letters of Intent**

### ***2011 Call for Beamline Development Proposals National Synchrotron Light Source II***

- 1. High-energy x-ray micro-mapping of materials for advanced energy and structural engineering applications beamline (HEX)**  
Spokesperson: Mark Croft, Rutgers University  
Source: Superconducting wiggler
- 2. Synchrotron-based discoveries for Chemical Biology (HIT)**  
Marc Allaire, Brookhaven National Laboratory  
Undulator
- 3. NSLS-II Beamline for Combined High Magnetic Field and High Pressure Materials Studies (HMP)**  
Trevor Tyson, New Jersey Institute of Technology  
Dipole wiggler
- 4. High-energy macromolecular crystallography (HMX)**  
Vivian Stojanoff, Brookhaven National Laboratory
- 5. Monochromatic/White Beam X-ray Topography and High Resolution Diffraction Beamline at NSLS-II (HXT)**  
Michael Dudley, Stony Brook University
- 6. Beamline for in situ studies of chemical transformations by scattering measurements with 60-80KeV X-rays (ICT)**  
Jon Hanson, Brookhaven National Laboratory  
Superconducting wiggler
- 7. Low-energy Anomalous X-ray Diffraction Beamline (LAX)**  
Wayne Hendrickson, Columbia University  
Canted undulator
- 8. A Superconducting Wiggler Long Beamline at the NSLS-II for Medical Imaging and Radiation Therapy (MIT)**  
F. Avraham Dilmanian, Brookhaven National Laboratory  
Superconducting wiggler
- 9. Real time and in-situ studies of Materials in a Radiation Environment (MRE)**  
Lynne Ecker, Brookhaven National Laboratory

**10. Soft X-ray Spectromicroscopy Facility for Material Science (SMF)**

Konstantine Kaznatcheev, Brookhaven National Laboratory  
Insertion device

**11. Scanning Transmission X-ray Microscope (STX)**

Juergen Thieme, Brookhaven National Laboratory  
Bending magnet

**12. Beamline for studying the electronic properties of nanomaterials and chemical transformations by high-resolution photoemission and near-edge x-ray absorption fine structure (SXS)**

David Mullins, Oak Ridge National Laboratory  
Bending magnet

**13. Combining Operando X-ray Absorption Spectroscopy and Sub-Ångstrom Electron Microscopy (XEM)**

Eric Stach

**14. Versatile Instrument for Spectroscopy (VIS)**

Dario Arena  
Elliptically polarized undulator