Future Light Sources 2012 Workshop -- Thursday, March 8

	Compact Light Sources Room F224/F225	ERL-Based Light Sources Room A110	Electron Sources Room F326/327	FEL-Based Light Sources Room F113	Storage Ring Light Sources Room L102/L104	Timing and Diagnostics Room F226	Undulators and Insertions Room L207
7:30							
8:00	Continental Breakfast						
	Chair: Bob Rimmer						
8:30	Winick (SLAC) - Genesis of the LCLS						
9:00	He (JLab) - Design of a beta=1 Double Spoke Cavity for the BES-CLS Inverse Compton Scattering Light Source	**Limits of Recirculation** Borland (ANL) - Effects of Several Very Long Undulators in the APS ERL Design Clarke (Daresbury)	**Joint Session with FEL Theory F113** Bishofberger (LANL) - Staged Eigen-Emittance Reduction Techniques Yampolsky (LANL) - Dynamics of Modulated Beams	**Joint Session with Sources Theory F113** Bishofberger (LANL) - Staged Eigen-Emittance Reduction Techniques Yampolsky (LANL) - Dynamics of Modulated Beams	**Joint Session with Undulators L102/104** Casalbuoni (ANKA) - Superconducting Insertion Devices Temnykh (Cornell) - CHESS Compact Undulator	Unscheduled	**Joint Session with Storage Rings L102/104** Casalbuoni (ANKA) - Superconducting Insertion Devices Temnykh (Cornell) - CHESS Compact Undulator
10:00	Loulergue (SOLEIL) - The Thom-X Project						
10:40	Coffee Break						
	Compact	**ERL**	**Electron Sources**	**FEL**	**Storage Rings**	**Diagnostics**	**Undulators**
10:45	Sub-Group work on common interests e.g. SRF, Laser/Plasma/X-Band	**Modelling** Clarke (STFC) - The Impact of Undulator in an ERL Angal-Kalinin (STFC) - ALICE Beam Simulations Shimada (KEK) - Lattice and optics designs of both compact ERL and 3-GeV ERL projects with their expected light-source performances Jing (BNL) - Bunch compressor design with minimized CSR effect for potential FEL operation at eRHIC	Harkay (ANL) - Ultra-bright Designer Photocathodes Choi (Vanderbilt) - Diamond Field-Emission Cathodes as High-Brightness Electron Sources Hess (PNLL) - Surface Science for Cathode Development Discussion - Photocathode R&D	**Theory** Bishofberger (LANL) - EEX-Based Beam Compression with Higher Order Corrections Marksteiner (LANL) - Enhanced Harmonic Up-Conversion using a Hybrid HGHG-EEHG Scheme Kim (ANL) - Quantum Noise in High-Gain FELs	**Joint session with Undulators Modeling and Beam Dynamics L102/104** Xiao (ANL) - Simulation of APPLE ID for APS-U Chubar (BNL) - Parametric Optimization of In-Vacuum Undulators and Segmented Adaptive-Gap Undulator Couprie (SOLEIL) - Effect of IDs on SOLEIL	Schmidt (DESY) - Fast Bunch Profile Monitoring with Broadband THz Spectroscopy of Coherent Radiation at FLASH Jamison (Daresbury) - Challenges in Pushing Electro-Optic Longitudinal Diagnostics to 20 fs Resolution	**Joint Session with Storage Rings Modeling and Beam Dynamics L102/104** Xiao (ANL) - Simulation of APPLE ID for APS-U Chubar (BNL) - Parametric Optimization of In-Vacuum Undulators and Segmented Adaptive-Gap Undulator Couprie (SOLEIL) - Effect of IDs on SOLEIL
12:30	Lunch						
14:00	Sub-Group work on common interests e.g. SRF, Laser/Plasma/X-Band	**Joint Session with Sources A110** Krasilnikov (DESY) - Demands on Spatio-Temporal Laser Pulse Shaping from FEL Class Electron Sources Quast (HZB) - Reality and Future Directions for Spatio-Temporal Laser Pulse Shaping Discussion - Do we have everything we need from laser tech for future light sources?	**Joint Session with ERL A110** Krasilnikov (DESY) - Demands on Spatio-Temporal Laser Pulse Shaping from FEL Class Electron Sources Quast (HZB) - Reality and Future Directions for Spatio-Temporal Laser Pulse Shaping Discussion - Do we have everything we need from laser tech for future light sources?	**Test Facilities and Design Concepts** Nassiri (ANL) - RF Power Sources for XFELs and ERLs Kim (IAC/ISU/JLab) - Performance Comparison of S-Band, C-Band, and X-Band Based FEL Facilities Roper (Daresbury) - Modelling the Photon Transport System of the ALICE FEL using Wavefront Propagation	**Technology** Decker (APS) - Diagnostics for USR Jankowiak (HZB) - Pulsed Magnets for Injection in Small DA Rings Wuestefeld - Simultaneous Long and Short Bunches by Strong SC Cavities in BESSY-II	Discussion - Future Diagnostic Needs	Working Group Summary Review
15:40	Coffee Break						
15:45	Report Writing	**Joint session with Sources/Diagnostics L102/104** Krasilnikov (DESY) - Unwanted Beam Observations at PITZ Teichert (HZDR) - Unwanted Beam Observations at ELBE	**Joint session with ERL/Diagnostics L102/104** Krasilnikov (DESY) - Unwanted Beam Observations at PITZ Teichert (HZDR) - Unwanted Beam Observations at ELBE	**Test Facilities and Design Concepts** Dunning (Daresbury) - FEL Considerations for CLARA Sun (SLAC) - Preliminary Study on Two Possible Bunch Compression Schemes at NLCTA Hemsing (SLAC) - Enabled by Echo: EEHG etc at NLCTA Zholents (ANL) - Dielectric Wakefield and FEL	**Low Alpha, Short Bunches A110** Loulergue (SOLEIL) - Low Alpha at SOLEIL Schuh (ANKA) - CSR Studies and Observations at ANKA Wuestefeld (HZB) - Low Alpha Operation at MLS	**Joint session with ERL/Sources L102/104** Krasilnikov (DESY) - Unwanted Beam Observations at PITZ Teichert (HZDR) - Unwanted Beam Observations at ELBE	Working Group Summary Review
19:30							