PROGRAM OUTLINE

Monday, September 9

Morning		Afternoon	
8:30	**B. Hartline,** **Deputy Director, ANL** Welcome to ANL	**14:00**	**<u>Poster Session I</u>**
8:35	**J. M. Gibson,** **Assoc. Lab. Director for APS** *Welcome to APS*		*FEL Theory* *High-Power, Long-Wavelength FELs*
	FEL Prize and First Lasings		
8:45	**M.-E. Couprie (Prize Talk)**		
MO-O-01	*Chaos Studies on the Super-ACO Free Electron Laser*		
9:25	**J.-M. Ortega (Prize Talk)**		
MO-O-02	*Two-Color Experiments with Infrared Lasers*		
10:05	**T. Shaftan**		
MO-O-03	*First Lasing of the NSLS DUV FEL at 266 & 400 nm*		
10:13	**E. Minehara**		
MO-O-04	*First Lasing of the JAERI Energy-Recovery Linac-Based FEL*		
10:21	**V. Litvinenko**		
MO-O-04A	*First Generation of Coherent VUV Radiation in the OK-4/Duke SR FEL*		
10:30-11:00	**Coffee Break**	**15:30-16:00**	**Coffee Break**
	FEL Theory		**High-Power, Long-Wavelength FELs**
11:00	**W. Fawley (Invited)**	**16:00**	**R. Hajima**
MO-O-05	*Issues and Subtleties in Numerical Simulation of X-ray FELs*	MO-O-09	*First Demonstration of Energy-Recovery Operation in the JAERI Superconducting Linac for a High-Power Free-Electron Laser*
11:40	**L. Giannessi**	**16:20**	**D. Nguyen**
MO-O-06	*MOPA Optical Klystron FELs and Coherent Harmonic Generation*	MO-O-10	*Possibility of a MW-Class High-Gain Amplifier FEL*
12:00	**B. Hafizi**	**16:40**	**Y. Jeong**
MO-O-07	*Electron Beam Conditioning for FEL Applications*	MO-O-11	*Upgrade of a Compact FIR FEL Driven by a Magnetron-Based Microtron for the Wavelength Range of 100-300 μm*
12:20	**Lunch (Program Committee Meeting at the Argonne Guest House)**	**17:00** MO-O-12	**N. Ginzburg** *Four-Channel Planar FEM for High-Power mm-Wave Generation (Theoretical and Experimental Problems)*

Tuesday, September 10

Morning		Afternoon	
FEL Technologies – Part I		**14:00**	**Poster Session II**
8:30	**D. Garzella (Invited)**		
TU-O-01	*Mirror Issues for FELs*		*FEL Technologies*
9:10	**S. Gottschalk**		*Storage Ring FELs*
TU-O-02	*Permanent Magnet Systems for FELs*		
9:30	**J. Pflueger**		
TU-O-03	*Radiation Exposure and Magnetic Performance of the Undulator System for the VUV FEL at the TESLA Test Facility Phase I after Almost Three Years of Operation*		
9:50	***S. Sasaki***		
TU-O-04	*LCLS Prototype Undulator*		
10:10-10-40	**Coffee Break**	**15:30-16:00**	**Coffee Break**
FEL Technologies – Part II		**Storage Ring FELs**	
10:40	**R. Ischebeck (Invited)**	**16:00**	**V. Litvinenko (Invited)**
TU-O-05	*Study of the Transverse Coherence at the TTF Free Electron Laser*	TU-O-09	*New Results and Prospects for Harmonic Generation in Storage Ring FELs*
11:20	**M. Shinn**	**16:40**	**M. Trovò (Invited)**
TU-O-06	*Design of the Jefferson Lab IR Upgrade FEL Optical Cavity*	TU-O-10	*The UV European FEL at ELETTRA at 1.5 GeV: Towards Compatibility of Storage Ring Operation for FEL and Synchrotron Radiation*
11:40	**A. Lumpkin**	**17:20**	**C. Thomas**
TU-O-07	*Evidence for Transverse Dependencies in COTR and Microbunching in a SASE FEL*	TU-O-11	*Storage Ring Free Electron Laser Dynamics: Longitudinal Detuning Study*
12:00	**P. Krejkic**		
TU-O-08	*FEL R&D at SLAC's Short Pulse Photon Source*		
12:20	**Lunch**	**18:00**	**International Executive Committee Meeting**

Wednesday, September 11

Morning		Afternoon	
Workshop Session I		**14:00**	**Poster Session III**
8:30	**P. Maítre (Invited)**		
WS-O-01	*Ultrasensitive Gas Phase IR Photodissociation Spectroscopy by Using an FTICR Ion Trap Coupled to a Free Electron Laser*		*High-Brightness Electron Beams* *High-Gain, Short-Wavelength FELs*
9:10	**J. Schulz**		
WS-O-02	*Coulomb Explosion of Rare Gas Clusters Irradiated by Intense VUV Pulses of a Free Electron Laser*		
9:30	**J. Krzywinski**		
WS-O-03	*Interaction of Intense, Femtosecond Soft X-ray Pulses with Solids: Desorption, Ablation and Plasma Formation by TTF FEL SASE Radiation*		
9:50	**K. Nomaru**		
WS-O-04	*Novel Process of Isotope Separation of Silicon by Use of IR FEL*		
10:20-10-40	**Coffee Break**	**15:30-16:00**	**Coffee Break**
High-Brightness Electron Beams		**High-Gain, Short-Wavelength FELs**	
10:40	**S. Russell (Invited)**	**16:00**	**C. Gerth**
WE-O-01	*Overview of High-Brightness, High-Average-Current Photoinjectors for FELs*	WE-O-05	*Spectral, Temporal, and Statistical Properties of a VUV FEL Operating in SASE Mode*
11:20	**X. Wang**	**16:20**	**H. Freund**
WE-O-02	*Femtoseconds Kiloampere High-Brightness Electron Beam*	WE-O-06	*Multi-Beam Free-Electron Lasers*
11:40	**D. Janssen**	**16:40**	**C. Limborg**
WE-O-03	*First Operation of a Superconducting RF Electron Gun*	WE-O-07	*Design Considerations of the LCLS*
12:00	**Z. Huang**	**17:00**	**T. Shintake**
WE-O-04	*Theory and Simulation of CSR Microbunching in Bunch Compressors*	WE-O-08	*Status of SPring-8 Compact SASE Source FEL Project*
12:20	**Lunch**	**17:20-20:00**	**Prix Fixe Dinner at Guest House (Reservations required)**
		20:00	**Concert in APS Auditorium**

Thursday, September 12

Morning		Morning	
Workshop Session II			
8:30	**J. Kono (Invited)**	**8:30**	**<u>Poster Session IV</u>**
WS-O-05	*Ultrafast and Nonlinear Spectroscopy of Semiconductors with Small Energy Photons*		*New Concepts and Proposals Workshop Posters*
9:10	**M. Hosaka**		
WS-O-06	*Pump/Probe Experiments with FEL and SR Pulses at UVSOR*		
9:30	**B. Redlich**		
WS-O-07	*Resonant Desorption of Small Molecules from Surfaces*		
9:50	**H. Cruguel**		
WS-O-08	*Threshold Time-Resolved Surface Magnetometry of Low-Dimensional Systems*		
10:10	**H. Dürr**		
WS-O-09	*Femtosecond Magnetism with the BESSY SASE FEL*		
10:30-11:10	**Coffee Break**	**10:30-11:10**	**Coffee Break**
New Concepts and Proposals			
11:10	**A. Renieri (Invited)**	**11:10**	**<u>Poster Session IV</u>** (continued)
TH-O-01	*Overview of Proposed VUV and Soft X-Ray Projects in the World*		*New Concepts and Proposals Workshop Posters*
11:50	**S. Werin**		
TH-O-02	*A Cascaded Optical Klystron on an Energy Recovery Linac – Race Track Microtron*		
12:10	**T. Zwart**		
TH-O-03	*The MIT Bates X-Ray Laser Project*		
12:30	**J. Kuba**		
TH-O-04	*X-ray Optics Research for Free Electron Lasers: Study of Material Damage under Extreme Fluxes*		
12:50-14:00	**Board buses to Chicago** (you may order a box lunch to eat on the bus)		
14:00-18:00	**Excursion** (on your own in Chicago)		
18:00-22:00	**Banquet** (start boarding at 18:00; boat sets sail at 19:00)		

Friday, September 13

Morning		Afternoon	
Workshop Session III			
8:30	**K. Awazu (Invited)**	**14:30**	**Tour of Advanced Photon Source**
WS-O-10	*Status Report and Biomedical Applications of the Institute of FEL, Osaka University*		
9:10	**J. Hastings (Invited)**		
WS-O-11	*The LCLS: Short X-Ray Pulses Open a Window for New Scientific Opportunities*		
9:50	**R. Austin**		
WS-O-12	*Two-Color Experiments in Protein Dynamics*		
10:10-10:40	**Coffee Break**		
Joint Session			
10:40	**W. Eberhardt (Invited)**		
FR-O-01	*Science with Soft X-ray Free Electron Lasers*		
11:10	**G. Neil (Invited)**		
FR-O-02	*Status of the Jefferson Lab IR/UV High Average Power Light Source*		
11:40	**J. Rossbach (Invited)**		
FR-O-03	*Demonstration of Gain Saturation and Controlled Variation of Pulse Length at the TESLA Test Facility FEL*		
12:10	**J. Rocca (Invited)**		
FR-O-04	*Table-Top Soft X-Ray Lasers Based on Capillary Discharges*		
12:30	**Lunch (on your own)**		