

Monday, March 25

7:30 – 8:30	REGISTRATION AND BREAKFAST
8:30	Welcome address – James Rosenzweig <i>Elements of the 5th Generation Light Source</i> <i>James Rosenzweig</i>
9:00	High-harmonic generation off a spooling tape as seed for the laser-plasma-accelerator-driven free electron laser <i>Jeroen Van Tilborg</i>
9:30	GALAXIE : A Compact X-ray FEL <i>Brian Naranjo</i>
10:00	Water-Window X-Ray Pulses from a Laser-Plasma Driven Undulator <i>Andreas Maier</i>
10:30 – 10:50	COFFEE BREAK
10:50	Tuning Electron Injection in Laser Plasma Accelerators Using Multiple Pulses <i>Nicolas Matlis</i>
11:20	Dream beams based on implanting ultracold electrons into beam-driven plasma waves <i>Bernard Hidding</i>
11:50	Optical transverse injection in laser-wakefield acceleration <i>Remi Lehe</i>
12:10 – 2:30	LUNCH
2:30	The LCLS-II and FEL R&D <i>Tor Raubenheimer</i>
3:00	Current Status of the Matter and Radiation In Extremes (MaRIE) Materials Science Facility at Los Alamos National Laboratory <i>Steve Russell</i>
3:30	Recent Advancements at FACET and Plans for FACET-II <i>Mark Hogan</i>
4:00 – 4:20	COFFEE BREAK
4:20	Dielectric Laser Accelerators <i>Joel England</i>
4:50	Direct laser acceleration of 28 keV electrons at a single dielectric grating <i>John Breuer</i>

5:20 ***High Repetition-Rate, Soft X-ray FEL User Facility based on a Collinear Dielectric Wakefield Accelerator***
John Power

6:00 **POSTER SESSION & RECEPTION AT CONDADO TERRACE**

Tuesday, March 26

7:30 – 8:30 **BREAKFAST**

8:30 ***Ultra-High Brightness Electron Beams for X-Ray Free-Electron Lasers***

Bruce Carlsten

9:00 ***Two Color X-ray FEL at LCLS***

Alberto Lutman

9:30 ***High Gradient Helical Inverse Free Electron Laser Experiment***

Joseph Duris

10:00 ***Two colors FEL driven by a comb-like electron beam distribution***

Enrica Chiadroni

10:30 – 10:50 **COFFEE BREAK**

10:50 ***EOS-locked seeding system toward FT-limited XFEL pulses***

Hiromitsu Tomizawa

11:20 ***Towards Zeptosecond-Scale Pulses from X-Ray FELs***

David Dunning

11:50 ***Shot Noise Suppression in Linac Beams***

Daniel Ratner

12:10 – 2:30 **LUNCH**

2:30 ***Longitudinal and transverse beam manipulation for compact laser wakefield accelerator based free-electron lasers***

Alexandre Loulergue

3:00 ***High Brightness SASE operation of X-Ray FELs***

Neil Thompson

3:30 ***Twisted Photons***

Erik Hemsing

4:00 – 4:20 **COFFEE BREAK**

4:20 ***Advancements on Theory and Simulations of FELs***

Brian McNeil

4:50 ***Two-color pulse generation in the FERMI@Elettra FEL for pump-probe experiments***

Giuseppe Penco

5:20 ***Longitudinally coherent single-spike radiation from a SASE***

FEL

Gabriel Marcus

Wednesday, March 27

7:30 – 8:30	BREAKFAST
8:30	<i>Laser Systems for Particle Accelerators</i> <i>Igor Jovanovic</i>
9:00	<i>Coherent diffraction imaging of microbunched relativistic electron beams: imaging the microstructure of high-brightness beams</i> <i>Agostino Marinelli</i>
9:30	<i>Issues with phase space characterization of laser-plasma generated electron beams</i> <i>Alessandro Cianchi</i>
10:00 – 10:20	COFFEE BREAK
	PARALLEL SESSION A
10:20	<i>Microscale magnetic flux sources for electron beam manipulation</i> <i>Rob Candler</i>
10:50	<i>Progress Toward Mini and Micro Magnetic Undulators</i> <i>David Arnold</i>
11:20	<i>Microwave-based Undulator: A New Tool for Free Electron Lasers and Synchrotron Light Sources</i> <i>Sami Tantawi</i>
11:50	<i>Cryogenic Permanent Magnet Undulators</i> <i>Finn O'Shea</i>
	PARALLEL SESSION B
10:20	<i>Field emission technology for light source applications</i> <i>Jonathan Jarvis</i>
10:50	<i>The Cornell University photoinjector</i> <i>Luca Cultrera</i>
11:20	<i>High repetition rate photo-injectors</i> <i>Daniele Filippetto</i>
11:50	<i>External-Injection experiment at SPARC_LAB</i> <i>Andrea Rossi</i>
12:20 – 2:30	LUNCH
	PARALLEL SESSION A

2:30	<i>Photon and electron distribution after Thomson/Compton scattering</i> <i>Vittoria Petrillo</i>
3:00	<i>Non-linear effects in Compton Sources</i> <i>Yusuke Sakai</i>
3:30	<i>RF LINACs for Gamma-Ray Compton Sources</i> <i>Cristina Vaccarezza</i>
4:00	<i>RF/fs-laser synchronisation at TU Eindhoven/AccTec</i> <i>Marnix van der Wiel</i>
	PARALLEL SESSION B
2:30	<i>Progress on the Hybrid Gun Project at UCLA</i> <i>Atsushi Fukasawa</i>
3:00	<i>Ultra Short electron bunches by Laminar Velocity Bunching</i> <i>Alberto Bacci</i>
3:30	<i>Recent Advancements in RF Guns</i> <i>Luigi Faillace</i>
4:00	<i>Initial X-Band Photoinjector Performance at SLAC</i> <i>Cecile Limborg</i>
4:30 – 5:30	Panel Discussion <i>5th Generation Light Sources: Critical Issues in the Next Five Years</i>
6:00	DINNER RECEPTION AT TUSCANY ROOM

Thursday, March 28

7:30 – 8:30	BREAKFAST
8:30	<i>Optimizing Design of SRF Electron Guns</i> <i>Joseph Bisognano</i>
9:00	<i>Laser Systems and cavities for Compton Sources</i> <i>Fabian Zomer</i>
9:30	<i>High Brilliance X-rays from Compact Sources</i> <i>William Graves</i>
10:00	<i>Ultracold and ultrafast electron source</i> <i>Jom Luiten</i>
10:30 – 10:50	COFFEE BREAK
	<i>Generation of high-brightness electron beams from a needle cathode and their application to make channeling x-rays</i>
10:50	<i>William Gabella</i>

11:20	<i>Spatially Coherent X-Ray Generation from Laser Driven Plasma Wakefield Accelerators</i> <i>Alec Thomas</i>
11:50	Closing remarks – Massimo Ferrario

Poster Session

- 1. The LUNEX5 Project**
Marie-Emmanuelle Couprie (Synchrotron SOLEIL)
- 2. Inverse Compton cross section revisited**
Camilla Curatolo (University of Milan and INFN-Milan)
- 3. Spectral Investigations of Laser-Wakefield Accelerator Dynamics and Advanced Brilliant Light Sources at the HZDR**
Alexander Debus (Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Germany)
- 4. Surface-micromachined Electromagnets for 100 um-scale undulators and focusing optics**
Jere Harrison (University of California, Los Angeles)
- 5. 3D ellipsoidal shaping of the photocathode laser pulse for further photo injector optimization**
Mikhail Krasilnikov (DESY, Zeuthen, Germany)
- 6. Compression of a 20 pC e-bunch at the European XFEL for Single Spike Operation**
Barbara Marchetti (DESY)
- 7. A Dielectric-Wakefield Energy-Doubler for the Advanced Superconducting Test Accelerator at Fermilab**
Daniel Mihalcea (Northern Illinois University)
- 8. Beam-Dynamics Simulations for Channeling Radiation Electron Source**
Daniel Mihalcea (Northern Illinois University)

9. **Ultralow Charge Ultralow Emittance Beams from RF Photoinjectors**
Pietro Musumeci (University of California, Los Angeles)
10. **A High Power Longitudinal Space Charge Oscillation Based THz source**
Pietro Musumeci (University of California, Los Angeles)
11. **Surface Plasmon Resonance Enhanced Multiphoton Emission of High Brightness Electron Beams from Nanopatterned Cathodes in RF Photoinjectors**
Pietro Musumeci (University of California, Los Angeles)
12. **Optical Break Down with 5 μm Laser**
Alex Murokh (RadiaBeam Technologies)
13. **Photoemission Enhancement from Copper Cathode Illuminated by Z-Polarized Laser Pulse**
Hiromitsu Tomizawa (JASRI/Spring8)
14. **Hybrid modeling of relativistic underdense plasma photocathode injectors**
Yunfeng Xi (University of California, Los Angeles)