SCIENTIFIC PROGRAM

WEDNESDAY, OCTOBER 5, 2011

08:00 – 09:00 Registration, Foyer Budapest (2nd Floor)

Library, 1st Floor

08:30 – 09:00 Press Conference

Cracow I+II, 2nd Floor

10.25 - 10.40	Coffee Break
10:05 – 10:25	G. Korn: ELI and ELI Beamlines Science and Technology Topics
09:45 – 10:05	W. Sandner (ISAC): Europe 2016
09:25 – 09:45	V. Ruzicka, F. Gliksohn: <i>ELI Beamlines and ELI Delivery Consortium General Considerations and Current State</i>
09:05 – 09:25	G. Mourou: Introduction to the ELI-Project and Its Four Pillars
09:00 – 09:05	J. Ridky: Welcome Address

ELI-Beamlines Project Development Overview

10:40 – 11:05	B. Rus: ELI Beamlines Facility Development
11:05 – 11:20	S. Sebban: Planned Coherent and Incoherent X-rays Sources at ELI-Beamlines
11:20 – 11:35	D. Margarone: Planned Experiments on Acceleration of Particles at ELI Beamlines
11:35 – 11:50	L. Juha: Planned Applications in Molecular, Biomedical and Material Research
11:50 – 12:05	J. Limpouch: <i>Physics of Dense Plasma and First Planned Proof of Principle Experiments</i>
12:05 – 12:20	K. Rohlena: <i>High Field Physics Area at ELI Beamlines and Proof of Principle</i>

Experiments for Climbing Up the Intensity Ladder

12:05 – 12:35	T. Homola, J. Clements: ELI Beamlines – Delivering the Project
12:35 – 13:00	Discussion
13:00 – 13:45	Lunch, Restaurant Loreta
Secondary Sources Session (X-rays and Laser Accelerated Particles)	
13:45 – 14:15	M. Borghesi: Acceleration with Superintense Lasers: Current Activities and Future Perspectives
14:15 – 14:45	W. Leemans: Progress on Laser Plasma Accelerators at LBNL
14:45 – 15:15	L. Silva: Recent Progresses in Laser-plasma Accelerators and Their Applications
15:15 - 16:05	P. Raczka: Enhanced Laser-driven Ion Acceleration via Cavity-amplified Radiation Pressure
16:05 – 16:30	M. Zepf: Harmonic Generation from Relativistic Plasma Surfaces in the Few-cycle Regime and Novel Approaches to Phasematching HHG in Gases
16:30 – 16:50	I. Andriyash: Diffraction of Relativistic Electron Beam on a High Intensity Optical Lattice as a New Approach to the X-ray Generation
16:50 – 17:00	Coffee Break

17:00 – 18:15 ISAC (International Scientific Advisory Committee) Meeting - Members of the Committee Only

18:30 Departure to Opening Ceremony Strahov Monastery

THURSDAY, OCTOBER 6, 2011

Cracow I+II, 2nd Floor

Applications I Session

Ion Therapy

09:00 – 09:30	J. Wilkens: Towards Radiation Therapy with Laser-driven Ion Beams: Beamline Developments and Biological Experiments
09:30 – 09:50	U. Schramm: Dose Controlled Radiobiological Experiments with Ultrashort Pulse Laser Accelerated Proton Beams
09:50 – 10:10	P. Cirrone: Chracterization of Tumor Cells after Ion Beam Irradition – Treatment Planning

Imaging

10:10 – 10:40	J. Hajdu: Imaging with Short Intense X-ray Pulses
10:40 – 11:10	C. Rose-Petruck: Imaging and Structural Investigations with Femtosecond Laser Produced X-ray Pulses

11:10-11:25 Coffee Break

Lasers Session

13:15- 14:00	Lunch Break
12:55 – 13:15	C. Simon-Boisson: High Energy 1 Hz Titanium Sapphire Amplifier for PetaWatt Class Lasers
12:25 – 12:55	J. Zhu, Jianqiang Zhu, Baoqiang Zhu, Xuechun Li, Jian Zhu, Weixin Ma, Dean Liu,Xinqiang Lu,Wei Fan, Zhigang Liu,Shenglei Zhou,Dongfeng Zhao, Weixing Shen, Yan Zhang, Baosuan Chen, Dianyuan Fan, Zunqi Lin, Shiji Wang: <i>The Status of High Power Laser Development in China</i>
11:55 – 12:25	J. Collier: ELI Relevant Technology Developments at Rutherford Appleton Laboratory
11:25 – 11:55	S. Karsch: Stability Issues in OPCPA Systems

T. Metzger: Short Pulse Thin Disk Lasers and Their Power Scaling for ELI's 13:00 - 13:20 fs-OPCPA Systems

13:20 - 13:40	M. Hemmer: Few-cycle and CEP Stable OPCPA at High Average Power
	and Applications in Strong Field Physics

Dense Plasma Physics and Dignostics

13:40 – 14:00	G. Tallents: The Creation and Probing of High Energy Density Plasma with High Intensity Lasers
14:00 – 14:20	S. Pikuz: X-ray Spectroscopy and Backlighting Diagnostic Methods Proposed for ELI Beamlines Experiments

High-intensity Session and Theory

17:45	Round Table – Conclusions
17:10 – 17:30	M. Marklund: <i>TBA</i>
16:50 - 17:10	M. Bussmann: <i>Using Table-top Supercomputers for Simulating Table-top Radiation Sources</i>
16:30 – 16:50	N. Naumova: Simulations of Laser - Plasma Interaction in Radiation-dominated and QED-strong Regimes
16:10 - 16:30	I. Sokolov: Modeling of Radiation-dominated and QED-strong Regimes of Laser - Plasma Interaction
15:40 – 16:10	V. Petracek: <i>Ideas and Progress on Calorimetric Detectors of Energetic Particles Generated by ELI</i>
15:20 – 15: 40	L. Drska: Exotic Matter Physics: Chances for ELI Beamlines
14:50 – 15:20	C. Keitel: Extremely High-intensity Laser-interactions with Fundamental Quantum Systems
14:20 – 14:50	S. Bulanov: High Field Limits in Ultra-relativistic Laser-matter Interaction

17:45 – 18:00 Coffee Break