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LASERLAB USER MEETING

"UPDATING OPTICAL AND LASER METHODS FOR ENERGETICS, MATERIALS, CHEMISTRY AND BIOMEDICINE "

28-29 March 2011

**Istituto Nazionale di Ottica
CNR Campus
Pisa, Italy**

Chairs

Marta Castillejo, Instituto de Química Física Rocasolano, CSIC,
Madrid, Spain

Antonio Giulietti, Istituto Nazionale di Ottica, CNR
Unit "Adriano Gozzini", Pisa, Italy

MONDAY, MARCH 28th

08:30-12:00	Registration
08:45-09:00	Opening address by INO Director and Meeting Chairs
09:00-09:20	Presentation of the transnational Access Program of LASERLAB-Europe II, <u>Pascal d' Oliveira</u>, SLIC, Paris, France

Session 1. Interactions at Extreme Energy Density
Chair: Antonio Giulietti, INO, Pisa, Italy

09:20-09:50	Keynote presentation: The collaboration of European FEL facilities, <u>Josef Feldhaus</u>, Deutsches Elektronen-Synchrotron, DESY, Hamburg, Germany
09:50-10:10	Optical field ionized XUV laser using the guiding of the pump beam in a plasma performed channel, <u>Jaroslav Nejdl</u>, Czech Technical University in Prague, Prague, Czech Republic
10:10-10:30	Electron beams and X-ray radiation generated by laser wakefield in capillary tubes, <u>Brigitte Cros</u>, Université Paris Sud, Orsay France
10:30-10:50	Measurement of harmonics produced in gas-puff laser plasmas by synthetic single-crystal diamond detectors, <u>Claudio Verona</u>, Rome University Tor Vergata, Rome, Italy
10:50-11:20	COFFEE BREAK
11:20-11:40	Proton acceleration and x-ray emission in fast electron transport studies, <u>Leonida Antonio Gizzi</u>, INO, Pisa, Italy
11:40-12:00	Radiative Shocks at PALS, <u>Chantal Stehle</u>, Observatoire de Paris, Meudon, France
12:00-12:20	~2.1 μm laser based on Ho:KLu(WO₄)₂ crystal in-band pumped by a Tm:KLu(WO₄)₂ laser and a diode laser, <u>Xavier Mateos</u>, Universitat Rovira i Virgili, Tarragona, Spain
12:20-12:40	Three-dimensional photonic quasicrystals, <u>Georg von Freyman</u>, Institute of Nanotechnology, Karlsruhe and Department of Physics, Kaiserslautern, Germany

MONDAY, MARCH 28th

12:40-15:00	LUNCH AND POSTER SESSION
Poster 1	Influence of Laser-Plasma Parametric Instabilities in Shock Ignition Relevant Regime, <u>Carlo A. Cecchetti</u> , INO-CNR, Pisa, Italy
Poster 2	The Laserlab ACCESS program at PHELIX, <u>Bernhard Zielbauer</u> , GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany

Session 2. Ultrafast Laser Probing of Matter

Chair: Marta Castillejo, CSIC, Madrid, Spain

15:00-15:30	Keynote presentation: Probing primary photoinduced processes in organic molecules with tunable few-optical-cycle light pulses, <u>Giulio Cerullo</u> , Politecnico di Milano, Italy
15:30-15:50	Femtosecond time resolved spectroscopy of 9-fluorenone and cyclopropylidene, <u>Juliane Köhler</u> , University of Wuerzburg, Germany
16:10-16:30	Time resolved studies of catastrophic optical mirror damage in red/NIR laser diodes, <u>Stella N. Elliott</u> , Cardiff University, Cardiff, United Kingdom
15:50-16:10	Momentum-dependent snapshots of a melting charge density wave in TaS₂, <u>Stefan Kaiser</u> , CFEL, Hamburg, Germany
16:30-16:50	COFFEE BREAK
16:50-17:10	Coherent optical phonons in different phases of Ge₂Sb₂Te₅ upon strong laser excitation, <u>Javier Solís</u> , Instituto de Óptica, CSIC, Madrid, Spain
17:10-17:30	Femto to nanosecond laser-induced damage in hafnia coatings, <u>Laurent Gallais-During</u> , Institut Fresnel, CNRS, Marseille, France
17:30-17:50	Attosecond Stark Spectroscopy on molecular systems, <u>Franck Lépine</u> , Université de Lyon, France
17:50-18:10	Thin-film-metallic-photocathodes grown by pulsed laser ablation, <u>Antonella Lorusso</u> , University of Salento, Lecce, Italy
20:00	GALA DINNER

TUESDAY, MARCH 29th**Session 3. Advanced Laser Technologies for the Progress of Chemical and Life Sciences**
Chair: Oldrich Renner, PALS, Prague, Czech Republic

09:00-09:30	Keynote presentation, Advanced inspection of matter using laser spectroscopy. From laboratory to extreme scenarios, <u>Javier Laserna</u> , Universidad de Málaga, Málaga, Spain
09:30-09:50	Characterization and Control of Nanostructures on Polymers and Biopolymers by Laser Irradiation, <u>Esther Rebollar</u> , Instituto de Química Física Rocasolano, CSIC, Madrid, Spain
09:50-10:10	Conical intersection dynamics in Rhodopsin and Isorhodopsin, <u>Philipp Kukura</u> , Oxford University, Oxford, United Kingdom
10:10-10:30	Binding of anthracyclines to a G-quadruplex structure of telomeric DNA and excited state deactivation processes in the complexes, <u>Ilse Manet</u> , ISOF-CNR, Bologna, Italy
10:30-10:50	COFFEE BREAK
10:50-11:10	Electronic Relaxation and Vibrational Wavepacket Motion in Poly(3-hexylthiophene) Films Studied by 2D Electronic Spectroscopy, <u>Arvydas Ruseckas</u> , University of St Andrews, United Kingdom
11:10-11:30	Proton coupled electron versus hydrogen atom transfer in BLUF photoreceptors, <u>Tilo Mathes</u> , Humboldt University, Berlin, Germany
11:30-11:50	Noninvasive observation of skeletal muscle contraction using near-infrared time-resolved reflectance and diffusing-wave spectroscopy, <u>Thomas Gisler</u> , Universität Konstanz, Konstanz, Germany
11:50-13:30	ROUND TABLE chaired by Annie Klisnick (Université Paris-Sud, Orsay, France) and Rosa Weigand (Universidad Complutense, Madrid, Spain)
13:30	CLOSING REMARKS, END OF MEETING
	LUNCH AND OPTIONAL VISITS TO INO LABS IN PISA AND INO AND LENS IN FLORENCE