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PROCEEDINGS

The Proceedings of the Symposium will be published by



IMPORTANT DATES & DEADLINES

Abstracts Deadline: extended to April 30, 2008

Abstract Acceptance: May 15, 2008

Reduced Fee Registration: July 15, 2008

Hotel Reservation: July 15, 2008

(Reservations received after July 15 will be accepted on availability basis)

Manuscript due: September 8, 2008

Symposium Opening: September 15, 2008

REGISTRATION FEES

	<i>Before July 15, 2008</i>	<i>After July 15, 2008</i>
Full registration	450 €	550 €
Student registration	300 €	350 €

SYMPOSIUM VENUE

FUNDAÇÃO CALOUSTE GULBENKIAN

(Calouste Gulbenkian Foundation)

Congress Center

Avenida de Berna, 45A

1067-001 Lisboa, Portugal

<http://www.gulbenkian.pt/>



**2nd ANNOUNCEMENT
and
CALL FOR PAPERS**

**XVII International Symposium
on
Gas Flow and Chemical Lasers
& High Power Lasers**



15 – 19 September 2008

Lisboa, Portugal

<http://gclhpl.inov.pt>

ABOUT THE SYMPOSIUM

The XVII International Symposium on Gas Flow and Chemical Lasers & High-Power Lasers, GCL/HPL 2008, will be held in the Calouste Gulbenkian Foundation, Lisbon, Portugal, from the 15th to 19th of September, 2008. For over thirty years, GCL/HPL has provided an excellent opportunity for researchers in gas, chemical and high power lasers, along with the end-users of these lasers to exchange ideas, review the state-of-the-art and foresee emerging trends within the field. Its scope is broad, including fundamental research, laser development, systems engineering and gas, chemical and high power laser applications in a wide range of fields. This year's conference will place a particular emphasis on the fields of nanophotonics applications and microprocessing using ultra-short pulse duration lasers. Following the tradition of precedent editions, the meeting will bring together scientists and engineers from all over the world to create an event where members of the laser community can meet to discuss the latest achievements and to initiate new contacts and collaborations. Keynote and Invited presentations will highlight important research trends in a wide spectrum of topics, listed below.

The Symposium Organizers are looking forward to welcoming you at the GCL&HPL 2008 in Lisbon.

SYMPOSIUM CHAIRS

Rui Vilar, IST, Lisboa, Portugal

Olinda Conde, FCUL, Lisboa, Portugal

ORGANISING COMMITTEE

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SECRETARIAT

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TOPICS

High Power Laser Sources

- Gas and Chemical Lasers
- Solid State, Disk and Fiber Lasers
- UV and VUV Lasers
- Short Pulse amplification
- Resonators and Active Optics
- Novel Approaches

High Power Laser Applications

- Laser Matter Interactions
- Micro and Nano Fabrication
- Novel Macro Processing
- Propagation, Space and Sensing
- Novel Approaches

INVITED SPEAKERS

Errico ARMANDILLO, European Space Agency, NL, "Lasers in space: an overview of developments and missions opportunities at the ESA"

Paulo ARTAXO, University of São Paulo, Brazil, "Lidar remote sensing applications"

V.A. BANAKH, Institute of Atmospheric Optics, Russia, "Propagation of high power partially coherent laser beams in a turbulent atmosphere: modeling and experiments"

Sarah BOLLANTI, ENEA, Italy, "A laser-plasma clean soft X-ray source"

Klaus J. BOLLER, University of Twente, NL, "CW diode and fibre pumped mid-IR OPOs for spectroscopic purposes"

Boris CHICHKOV, Laser Zentrum Hannover, Germany, "Laser-based 3D micro and nanofabrication"

Gonçalo FIGUEIRA, Instituto Superior Técnico, Portugal, Title to be announced

Igor FOMENKOV, Cymer Inc., USA, "High performance DUV lasers for lithographic and other industrial applications"

Costas P. GRIGOROPOULOS, University of California, USA, "Laser micro/nano processing for functional electronics"

Richard HAGLUND, Vanderbilt University, USA, "Laser processing of materials at high vibrational excitation density"

Jürgen HANDKE, Inst. Technical Physics, Germany, "COIL radiation of high brilliance"

Alan HILL, Texas A&M University, USA, "Evolution and status of a multi-kilowatt electric oxygen iodine laser development effort"

Alexander KAPLAN, Luleå University of Technology, Sweden, "Advanced systematic theory of laser welding supported by high speed imaging"

Reinhard KIENBERGER, Max-Planck-Institute of Quantum Optics, Germany, "Attosecond spectroscopy comes of age"

Boris LUKIYANCHUK, Data Storage Institute, Singapore, Title to be announced

Timothy MADDEN, Air Force Res. Lab., USA, "Three dimension simulation of gas-radiation interactions in chemical oxygen - iodine lasers"

Victor MALKOV, Laser Systems Ltd, Russia, "High-power supersonic chemical lasers: gas dynamic problems of mobile system operation"

Eric MOTTAY, Amplitude Systemes, France, "High average power ultrafast fibre amplifiers"

Gérard MOUROU, Ecole Polytechnique, France, "Extreme Light Infrastructure"

Shigeki MUTO, Tokai University, Japan, "Laser based hybrid technique for civil engineering"

Mark NEICE, HEL JTO, USA, "High Energy Laser Development for the Joint Technology Office"

José SALCEDO, Multiwave Photonics, Portugal, Title to be announced

Dieter SCHUÖCKER, Vienna University of Technology, Austria, Title to be announced

Anthony SIEGMAN, Stanford University, USA, "Waveguides and index antiguided fibers: old technology made new"

Susan THORNTON, Air Force Res. Lab., USA, "Overview of the US Air Force Research Laboratory work in lasers and optics"