



# COLA '05



8<sup>th</sup> International Conference on Laser Ablation  
Banff, Canada

September 11-16, 2005  
[www.pnl.gov/cola05](http://www.pnl.gov/cola05)



**2<sup>nd</sup> Announcement  
Abstract Submission  
now OPEN!**

## IMPORTANT DATES

Abstract deadline: **April 15, 2005**  
Hotel Registration: **July 20, 2005** due date for on-site rooms  
Conference Registration: **July 20, 2005** for a discounted rate  
Manuscripts due: **August 25, 2005**

— Proceedings will be published in the Journal of Physics —

## PLENARY LECTURE

### Paul Corkum

National Research Council of Canada,  
Ottawa, Ontario (Canada)

## INVITED SPEAKERS

### Preliminary List

### Robert (Bob) Fedosejevs

University of Alberta (Canada)

### Costas Fotakis

Foundation for Research and  
Technology - Hellas (FORTH)  
(Greece)

### Hideo Hosono

Tokyo Institute of Technology  
(Japan)

### Deb Kane

Macquarie University (Australia)

### Masahi Kawasaki

Institute Material Research, Tohoku  
University (Japan)

### Thomas Lippert

Paul Scherrer Institut (Switzerland)

### Boris Luk'yanchuk

Data Storage Institute (Singapore)

### Eric Mazur

Harvard University (USA)

### Mike Pellin

Argonne National Laboratory (USA)

### John Rogers

University of Illinois (USA)

### Alex Shluger

University College London (UK)

### Razvan Stoian

Max-Born-Institut für Nichtlineare  
Optik und Kurzzeitspektroskopie  
(Germany)

### Koji Sugioka

RIKEN - The Institute of Physical  
and Chemical Research (Japan)



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## CALL FOR PAPERS

Abstracts can be submitted interactively by completing the form located on the website

<http://www.pnl.gov/cola05/abstracts.stm>

or by e-mail to the conference secretary [cola05@pnl.gov](mailto:cola05@pnl.gov)

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## CONFERENCE TOPICS INCLUDE

- **Fundamentals of Laser - Material Interaction**
  - Modeling and Simulation
  - Ultrafast Laser Processes
  - Laser Surface Interactions
  - High Field Physics
- **Nanoscience – Nanotechnology**
  - Clustering and Nanoparticle Formation
  - Combinatorial PLD
  - Nanoscale Processing by Near Field Technologies
  - Laser Synthesis of Carbon Nanotubes
  - Laser Cleaning
- **Analytical Applications**
  - Diagnostics
  - LIBS
  - Mass Analysis
  - MALDI
  - Microprobes
- **Laser Ablation Applications**
  - Industry
  - Biology and Medicine
  - Art Conservation
- **Pulse Laser Deposition**
  - Film Synthesis
  - New Materials
  - Diagnostics
- **Advanced Sources and Systems**
  - Ultrafast Lasers in Material Processing
  - Laser Produced Particle Beams
  - Complementary Techniques
  - Novel Workstations
- **Laser Materials Processing**
  - Surface Modification Applications
  - Micromachining
- **Microprocessing Applications**
  - Micromanipulation
  - Direct Printing (MAPLE, LIFT)
  - MEMS and MOEMS
  - Laser Lithography
  - 3D Structuring for Photonic Applications
  - Rapid Prototyping
  - Lab-on-a-Chip

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Co-Chairs: P. Herman (Canada)  
W. Hess (USA)  
D. Bäuerle (Austria)  
H. Koinuma (Japan)

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