



The Abdus Salam International Centre for Theoretical Physics

IOP Institute of Physics



AIP-ICTP INDUSTRIAL PHYSICS FORUM 2012

16 - 20 April 2012
Miramare, Trieste, Italy

PURPOSE AND NATURE

Given the continuing globalization of advanced technological development, the International Centre for Theoretical Physics has joined with the American Institute of Physics to host an Industrial Physics Forum (IPF).

The 2012 IPF will present a rich program of plenary talks and discussion by leading scientists from around the world on topics driving current and future research and development efforts, including alternative energies and energy storage, new materials, microfluidic devices ("lab-on-a-chip"), complex fluids, advances in lasers and laser applications, nanophotonics, biomedical engineering, as well as talks on global science policy and complementary topics such as novel approaches to undergraduate science education. A Frontiers of Physics session will also be held covering a broader range of fundamental research topics by speakers who are distinguished by their seminal contributions to leading edge research.

CONFIRMED SPEAKERS

- **Martin Rees** (University of Cambridge)
- **Dr. Harry Atwater, Jr.** (Caltech)
- **Venky Narayanamurthy** (Harvard University)
- **Robert Stoner** (MIT)
- **Larry Kazmerski** (National Renewable Energy Laboratory)
- **Winfried Hoffman** (Applied Materials, Inc./European PV Industry Association, Germany)
- **Arnulf Jaeger-Waldau** (European Commission's Joint Research Center, Ispra, Italy)
- **Jenny Nelson** (Imperial College, London)
- **Samuel Sia** (Columbia University)
- **John Hinch** (University of Cambridge)
- **Solomon Assefa** (IBM Thomas Watson Research Center)
- **Karsten Kraiczek** (Agilent Technologies, Inc. Walbronn, Germany)
- **Caroline Taylor** (Energy Biosciences Institute, UC Berkeley)
- **Andrew Briggs** (Oxford University)
- **Aydogan Ozcan** (UCLA)
- **Katerina Svanberg** (Lund University)
- **Sune Svanberg** (Lund University)
- **Bob Lambourne** (British Open University)
- **Thomas Halsey** (ExxonMobil Upstream Research Company)
- **Luigi Colombo** (Texas Instruments)
- **Patrick Tabeling** (ESPCI Paris)
- **Mathias Fink** (ESPCI ParisTech)
- **Sean Shaheen** (University of Denver)
- **Alessandro Curioni** (IBM Zurich)
- **Hans Gardeniers** (University of Twente)
- **K.S. Narayan** (Jawaharla Nehru Centre for Advanced Scientific Research)
- **Dean Zollman** (Kansas State University)
- **Gorazd Planinsic** (Univeristy of Ljubljana)
- **Ian Lawrence** (University of Birmingham)
- **Tom Ellermeijer & Ewa Kedzierska** (CMA-Science Amsterdam)

*****NOTE: Fellowships available for EU students and researchers *****

PARTICIPATION

Scientists and students from all countries that are members of the United Nations, UNESCO or IAEA may attend the IPF. As it will be conducted in English, participants should have an adequate working knowledge of this language. Although the main purpose of the ICTP is to help researchers from developing countries through a program of training activities within a framework of international cooperation, academic, industrial, and NGO leaders, and students and post-doctoral scientists from developed and developing countries are encouraged to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants from developing countries, to be selected by the organizers. There is no registration fee.

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website: http://cdsagenda5.ictp.it/full_display.php?ida=a11158. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

DIRECTORS

PHILIP W. HAMMER

AMERICAN INSTITUTE OF PHYSICS (AIP)

JOE NIEMELA

LOCAL ORGANIZER, ICTP

PROGRAM COMMITTEE

Amy Flatten, American Physical Society,
Director, International affairs

Bill Gallagher, IBM

Philip W. Hammer, Associate Vice President,
Physics Resources, AIP

Katharine Gebbie, National Institute of
Standards & Technology (NIST)

Anthony Johnson, Director, Center for
Advanced Studies in Photonics research,
University of Maryland, Baltimore County

Vasudevan Lakshminarayanan, University of
Waterloo

Rudy Ludeke, AIP Corporate Associates
Advisory Committee

Romain Murenzi, Director, Academy of
Sciences for the Developing World

Joe Niemela, Head, Applied Physics, ICTP

Fred Pinkerton, General Motors

Surya Raghu, President, Microfluidics, Inc.,
Maryland

Dave Seiler, NIST

Dean Zollman, Kansas State University

Katarina Svanberg, Lund University

Sune Svanberg, Lund University

CO-SPONSORS

AMERICAN INSTITUTE OF PHYSICS, USA

**ACADEMY OF SCIENCES FOR THE
DEVELOPING WORLD, ITALY**

THE INSTITUTE OF PHYSICS, UK

CENTRAL EUROPEAN INITIATIVE

APPLICATION DEADLINE :

1 March 2012

SECRETARIAT

Telephone: +39-040-2240555

Telefax: +39-040-224163

E-mail: smr2334@ictp.it

ICTP Home Page: <http://www.ictp.it>