

# Conference on Computational Physics

OCTOBER 30 - NOVEMBER 3, 2011, GATLINBURG, TENNESSEE

# CCP2011

The Conference on Computational Physics (CCP) is an annual international conference that is dedicated to presenting an overview of the most recent developments and opportunities in computational physics across a broad range of topical areas from cosmology and astrophysics, through climate science, to materials physics, and the fundamental structure of matter. Computational physics touches the most fundamental issues in science to the practicalities of delivering communications technologies and securing a clean and efficient energy future. The CCP series has been in existence more than 20 years, alternating amongst the nations of the world divided (roughly) into Eastern, Central and Western zones with most recent ones being Ouro Preto, Brazil in 2008, Taiwan in 2009 and Trondheim, Norway in 2010. In 2011, the CCP will return to the Americas and will be held in the Gatlinburg, Tennessee, USA, during the period 30th October - 3rd November 2011. The conference will cover computational physics through a series of plenary talks intended to provide a broad and accessible overview of the field. A series of parallel sessions as well as poster sessions will be formulated around several cross cutting themes that bring together researchers from different scientific domains and stimulate cross fertilization within the overall context of computational physics. Specifically:

- *Quantum many-body methods*
- *Open Quantum Systems*
- *Atomistic/Mesososcopic methods*
- *Macroscopic transport, hydrodynamics, turbulent phenomena*
- *Computational physics challenges in moving towards a sustainable energy future*
- *Directions in computational physics: From education to the cutting edge*

Within these themes a broad cross section of domain sciences will be accommodated whose commonality of interest is embodied under the overall themes.

## Program:

- **Plenary Sessions**
- **Contributed Sessions**
- **Poster Sessions**

## IMPORTANT DATES:

**Registration:** Opens: April 1 - Closes: October 1

**Abstract submission:** Opens: April 1 - Closes: October 1

## Proceedings Publication:

Papers presented at CCP2011 are eligible for publication in the "Journal of Physics: Conference Series (JPCS)". Under an agreement between International Union of Pure and Applied Physics (IUPAP) and the Institute of Physics (IOP) Publishing the JPCS is the official publication journal of the CCP series of conferences. Articles to CCP2011 submitted for publication in JPCS will be subject to standard peer review prior to publication.

**Special Note for Non-US Participants:** If you plan to attend the CCP2011 Conference please make an appointment NOW to apply for your visa to visit the U.S. This application process can take 3-6 months, so we urge you to submit your application as soon as you read this.

## Free Circulation IUPAP:

To secure IUPAP sponsorship, the organizers have provided assurance that CCP 2011 will be conducted in accordance with IUPAP principles as stated in the ICSU-Document "Universality of Science" (sixth edition, 1989) regarding the free circulation of scientists for international purposes. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality, or political considerations unrelated to science.

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Oak Ridge National Laboratory

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## WEBSITE:

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