ESCO 2010

2nd European Seminar on Coupled Problems

Pilsen, Czech Republic, June 28 - July 2, 2010

Conference Topics

Multiphysics models and methods

– Coupled problems in mechanics, electromagnetics, fluid dynamics, nuclear engineering, biosciences and other fields.
– Coupling mechanisms for mutiphysics/multiscale problems
– Monolithic models, model reduction and adaptivity
– Automatic adaptivity: higher-order methods, transient problems
– Verification and validation, uncertainty treatment

Modern trends in scientific computing

– Scientific computing with Python
– Web-based computing and visualization
– Open source projects

Invited speakers

– Zdenek Bittnar (Czech Technical University, Prague)
– Jean-Frédéric Gerbeau (INRIA Rocquencourt, France)
– Glen Hansen (Multiphysics Methods Group, Idaho National Laboratory, USA)
– Ronald Hoppe (University of Houston, USA)
– William Mitchell (National Institute of Standards and Technology, USA)
– Gael Varoquaux (Centre d'Etudes Nucléaires de Saclay, France)

Proceedings

Proceedings of ESCO 2010 will appear as special issues of Communications in Computational Physics (impact factor 2.33) and MATCOM (impact factor 0.93).

Important Dates

– Dec 15, 2009: Abstract submission
– Jan 15, 2010: Abstract acceptance
– Mar 15, 2010: Early registration
– Sep 30, 2010: Paper submission

Post-Conference Program

For participants wishing to spend the weekend after the conference in Prague, we will assist with accommodation reservation and provide a tour of the Prague Old Town, Charles Bridge and Prague Castle on Saturday July 3.

Organizations

ESCO 2010 is organized jointly by the University of Nevada, Reno (UNR), Czech Technical University, Prague (CTU), Institute of Thermomechanics, Prague (IT), University of West Bohemia, Pilsen (UWB), New Technologies Research Centre, Pilsen (NTC), and IMACS.

Organizers

– Pavel Solin (UNR & IT)
– Pavel Karban (UWB)
– Robert Cimrman (NTC)
– Jaroslav Kruis (CTU)

Webpage: http://hpfem.org/events/esco-2010/   **Email**: esco2010@unr.edu