

The Yousef Jameel Science and Technology Research Center

International Workshop on Computational Materials Science

November 17–20, 2008

Please visit http://phy.mtu.edu/pandey/cairo_2008/ for details

Objectives

- ❖ To provide graduate students and junior faculty members with a pedagogical introduction to selected methods in Computational Materials Science
- ❖ To promote interaction among groups with different areas of expertise

Topics of Discussion

- ❖ Molecular cluster computations
- ❖ Classical shell model methods for ionic crystal properties
- ❖ Ab initio perturbed ion (aiPI) method
- ❖ Monte Carlo methods in statistical mechanics
- ❖ Molecular dynamics in metals and inter-metallics (embedded atom method)
 - Mesoscopic transport
 - Electronic transport in molecular devices
- ❖ Green's functions

Speakers

Rajeev Ahuja, Sweden
Ahmed M Attiya, Egypt
Anil Kandalam, USA
Lev Kantorovitch, England
Shashi Karna, USA
Victor Luaña, Spain

Roberto Orlando, Italy
Pablo Ordejón, Spain
Ruth Pachter, USA
Sourav Pal, India
Ravi Pandey, USA
Manuel Recio, Spain

Michael Rérat, France
Notker Rösch, Germany
K. Schwarz, Austria
Vinod Tewari, USA
John Vail, Canada
Peter Zapol, USA

* Short oral presentations by participants and informal discussions will be organized.

Organizing Committee

Victor Luaña, Universidad de Oviedo, Spain
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Shashi Karna, Army Research Lab, USA
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Ravi Pandey, Michigan Tech, USA
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Local Organizing Committee

American University in Cairo, Egypt

Ali Hadi, Vice Provost
Amr Shaarawi, Associate Dean of the School of Science & Engineering
Hanadi Salem
Amal Esawi

- * English is the official language of the workshop
- * General questions and requests should be addressed to ehab_ab@aucegypt.edu or pandey@mtu.edu

The registration fee is US \$100 (LE 500) for participants and US \$50 (LE 250) for students and accompanying persons. It covers admission to principal lectures, short oral presentations, discussions, an abstract booklet and meals during the workshop. Participants are responsible for obtaining a valid passport and VISA. Consult your local Egypt Embassy/Consulate for required documents. Upon request, organizers will issue a letter of invitation for attending the workshop. Participants are required to make sure that their health insurance is covered during foreign travel. Cairo has comfortable weather conditions in November. Local sightseeing will be arranged and a visit to pyramids is recommended.