

Second Announcement and Call for Papers



NAC-CPC'10



North African Conference on Computational Physics and Chemistry 2010

Organized by the University Djillali Liabes
of Sidi Bel-Abbès, Algeria
At Oran, December 12th - 14th, 2010
<http://www.univ-sba.dz/naccpc2010>



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Co-President of the Conference

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Conference Objectives Technical Topics Area

This conference, organized for the second time by the L2MSM laboratory of the Faculty of Sciences, University Djillali Liabes of Sidi Bel Abbès, Algeria with the collaboration of the Alexander von Humboldt-Stiftung (Bonn, Germany) will be held at Oran from 12th to 14th December 2010. Its aim is to favour the exchange of ideas and experiences between young Algerian PhD and post-doc candidates with highly qualified researchers from different

countries in the world. The challenge in "NACCPC10 - Humboldt Kolleg" is also to provide a forum from theoreticians from physics and chemistry to share knowledge and results in a broad range of topics relevant to the theory of computational methods. The conference focus is on all computational aspects of physics and chemistry sciences, it deals as well as with theoretical and with empirical studies on computational methods, models, analysis and related aspects with these fields and all other topics with emphasis with computational physics and chemistry. This spreads to a wide range of topics including:

- * (Topic1) Theoretical physics
- * (Topic2) Theoretical chemistry
- * (Topic3) Simulation and molecular modelling methods
- * (Topic4) Material Science (Condensed matter, electronic structure, ab initio calculations, Molecular Dynamics, nanostructure, material characterization)
- * (Topic5) Molecular Structure and Spectroscopy
- * (Topic6) Electrochemistry, large molecules
- * (Topic7) Biological physics, drug design, bioinformatics, QSAR

Papers presented at this conference will be considered for publication in a proceedings book and the best young scientist presentation will be awarded at the end of the Conference.

Confirmed lectures

- Prof. M. Springborg Univ. saarlandes, Germany
Determining and analysing the structure of clusters.
- Prof. P. Derreumaux, Univ. Paris 7, France
Probing the aggregation of proteins associated with neurogenerative diseases (e.g., Alzheimer) and RNA with computer simulations and a coarse-grained force field
- Prof. P. Bopp, Univ. Bordeaux, France
On the motions of water in Chabazite, a Molecular Dynamics Study
- Prof. C. Schmidt, Univ. Paderborn, Germany
NMR spectroscopy used for the investigation of shear-induced structures in lyotropic liquid crystals
- Prof. M. Dauchez, Univ. Reims, France
Molecular modeling of EBP-Elastin Binding Protein: docking of different ligands
- Prof. M. Aroyo, Univ. Bilbao, Spain
crystallographic databases and computer programs
- Prof. D. Bougeard, Univ. Lille1, France
Apport de la modélisation et de la spectroscopie de vibration à l'étude de la dynamique des aluminosilicates
- Dr. G. Sutmann, Res. Center Jülich, Germany
Particle Simulations on Massively Parallel Computers
- Dr. A. Sayede, Univ. Artois, France
MD simulation of the Interaction of Water-Soluble Phenyl Phosphane with Cyclodextrin
- Prof. C. Misbah, Univ. Grenoble, France
On some passive and active motion in biology: a physicist point of view
- Prof. A. Abadi, German Univ. Cairo, Egypt
Computational Insight: Oral Phosphodiesterase 5 Inhibitors for Erectile Dysfunction.
- Prof. A. Abdelghani, Univ. Tunis, Tunisia
Advanced Apparatus for Pathogen Detection, A. Abdelghani, Tunis
- Prof. R. Ouared, Univ. Geneva, Switzerland
Is simulation of intracranial aneurysm hemodynamics enough reliable for clinical application? effect of segmentation and flow boundary conditions
- Prof. M. El-Khateeb, Univ. Irbid, Jordan
DFT calculations of [FeFe]-hydrogenase model compounds

Deadlines

For participation, note the following deadline dates:

- Second Call (with confirmed lectures): September 20th, 2010
- Submission of Abstract and registration: October 25th, 2010
- Notification of Acceptance: November 15th, 201

Conference Secretariat

For all further information, please contact the
NAC-CP10 conference secretariat (from July 1st,
2010):

Email : naccpc10@yahoo.com ou
naccpc2010@yahoo.fr

Web Site: <http://www.univ-sba.dz/naccpc2010>