

**North African Conference on Computational Physics and  
Chemistry 2008**

**NAC-CPC'08  
HUMBOLDT-KOLLEG**

*23-25 November 2008*

**Program**

- 7 plenary lectures (45 min duration each)
- 19 oral presentations (20 min duration each)
- 2 poster session (2 hours duration each)

\*The official languages will be: French and English

**Saturday, November 22<sup>nd</sup> :**

**18.00 – 20:00 Registration of the participants** (Conference room)

**19:30            Get together**

**20:00            Dinner** (Phoenix restaurant)

**First day : Sunday, November 23<sup>rd</sup>**

**8:30            Registration of the participants** (Conference room)

**9:30            Opening session**

**10:00           Prof. Marian**

**10: 30           Coffee break**

**\* Chairman : Prof. Monflier**

**10:50           *Plenary lecture 1 : P.Derreumaux (Prof. Univ. ParisVI, France)***  
*Exploring the conformations and free energy surfaces of proteins and  
molecular assemblies associated with Alzheimer's disease*

**11:35           Oral presentation 1 : A. Souifi (Prof. Insa-Lyon, France)**  
*Integration of nanoelectronic devices on silicon using single nanocrystals*

**11:55 Oral presentation 2 : F. Benmouna (Prof. univ. Tlemcen, Algeria)**

*Influence of Size and Chain Form Factor on the Phase Behavior and Structural Properties of Polyelectrolyte Solutions*

**12: 15 Picture of the participants (in front of the Conference room)**

**12:30 Lunch (Phoenix restaurant)**

**\* Chairman : Prof. Rahmouni**

**14:00 Plenary Lecture 2 : A. Boucekkine (Prof. Univ-Rennes, France)**

*Etude DFT et TDDFT de propriétés spectroscopiques et d'optique non linéaire de composés organométalliques*

**14:45 Oral presentation 3 : C. Misbah (prof. Univ. Grenoble, France)**

*On some passive and active motion in biology : a physicist point of view*

**15:05 Oral presentation 4 : A. Mehamha (Prof. Univ. Sétif, Algeria)**

*Propriétés rhéologiques de nanocomposites à matrice polymère  
Approche expérimentale et modélisation*

**15:25 Coffee break**

**\* Chairman : Prof. Benamara**

**15:45 plenary lecture 3 :B. Tangour (Prof. Univ-Tunis, Tunisia)**

*Etude théorique de différentes formes allotropiques du carbone et en particulier les nanotubes*

**16:30 Oral presentation 5 : A. Berkane (Dr. Univ-Saida, Algeria)**

*Monte carlo simulation of surfactant solution: A modified Larson's lattice model.*

**16: 50 Oral presentation 6 : B. Bouazza (Prof. Univ. Tlemcen, Algeria)**

*Monte Carlo calculation of velocity-field characteristics of wurtzite GaN*

**17:10 Oral presentation 7 : W. Khalil (Prof. Univ. Cairo, Egypt)**

*Zeolite based catalysts for the methanol oxidation for direct methanol fuel cells.*

**17:30 Oral Presentation 8 : N. Idrissi (Dr. Univ. Lille1, France)**

*Molecular dynamics simulation of the effect of urea and acetone solutes on the structure of water*

**17: 50 Poster session I**

**20:00**            **Dinner (Eden-Airport restaurant)**

**Second day : Monday, November 24<sup>th</sup>**

**\* Chairman : Prof. Moslem**

**8:30**            **Plenary lecture 4: M. Dauchez (Prof. Univ-Reims, France)**

*Computational biophysics: structure/function/dynamics of proteins*

**9:15**            **Oral presentation 9 : Z. Dridi ( Dr. Univ-Sidi Bel Abbes, Algeria)**

*Electronic Structure of cubic  $\text{Eu}_x\text{Ga}_{1-x}\text{N}$  and  $\text{Eu}_x\text{Al}_{1-x}\text{N}$  using the LSDA+U approach.*

**9:25**            **Plenary lecture 5 : A. Abul-Magd (Prof. univ-El-Arish, Egypt)**

*Superstatistical Random Matrix Theory*

**10:10**            **Oral presentation 10 : A. Abdelghani (prof. Univ. Tunis, Tunisia)**

*Supported biomembranes on gold microelectrodes for biosensors applications*

**10:30**            **Coffee break**

**\* Chairman : Prof. Benyoucef**

**10:50**            **Plenary Lecture 6 : R. Ouared (Dr. Univ-Geneva, Switzerland)**

*Développements dans la modélisation de la thrombose dans les anévrismes stentes obtenues par une méthodologie "lattice Boltzmann" (LBM) à une échelle mésoscopique.*

**11:35**            **Oral presentation 11 : H. Ben Ghazlen (Prof. Univ-Sfax, Tunisia)**

*Interaction ultrasons-hétérostructures*

**11:55**            **Oral Presentation 12 : A. Sayede (Dr. univ. Artois, France)**

*Understanding the phenomena of complexation of beta-cyclodextrins through the quantum chemistry*

**12 :15**            **Oral presentation 13 : M. Ellouze (Dr. Univ. Sfax, Tunisia)**

*Élaboration et caractérisation de nano-matériaux d'oxyde de manganite*

**12:35**            **Lunch (Eden-Airport restaurant)**

**13:30**            **Poster Session II**

**15:30**            **Excursion**

**20:00**                    **Conference Dinner (Khaima, Phoenix Hotel)**

**Third day : Tuesday, November 25<sup>th</sup>**

-

**\* Chairman : Prof. Gadalla**

**8:45**                    **Plenary lecture 7 : C. Mathieu (Prof. Univ-Artois, France)**  
*La Simulation Monte Carlo comme outil d'aide à la décision en microscopie électronique à balayage à haute pression*

**9:30**                    **Oral presentation 14 : A. Kadoun (Prof. Univ. Sidi Bel Abbes, Algeria)**  
*Modelling and computation of the anodic dissolution of silicon electrode in HF solution*

**9:50**                    **Oral presentation 15 : W. Badawy (prof. Univ. Cairo, Egypt)**  
*Solar energy conversion, photovoltaic and electrochemical cells*

**10:10**                    **Oral presentation 16 : M. Ferhat ( Prof. univ. Oran, Algeria)**  
*How do electronic properties of conventional III-V semiconductors hold for the III-Bismuth (BBi, AlBi, GaBi, InBi, and TlBi) compounds?*

**10:30**                    **Coffee break**

**\* Chairman : Prof. Chaabane-Sari**

**10:50**                    **Oral presentation 17 : A. El-Shafei (prof. Univ-Mansoura, Egypt)**  
*Electrooxidation of ethanol at modified platinum-based anodes*

**11:10**                    **Oral presentation 18 : S. Lakhdar (Dr. Univ. München, Germany)**  
*Electrophilicities of alpha béta -Unsaturated Iminium Ions*

**11:30**                    **Oral presentation 19 : W. Benchouk ( Dr. Univ-Tlemcen, Algeria)**  
*Etude théorique du mécanisme de la chemo et stéreo sélectivité expérimentale de la cycloaddition diplaire du carbonyl ylides et de PADW avec le méthylène cétone*

**11:50**                    **lunch (Eden Airport restaurant)**

**13:30- 15:30**                    **Round table**  
*Discussion about the organisation of the coming Humboldt-Kollegs in North Africa*

**Closing session**

P.S. : This program could be modified at the last moment, in case of absence of speakers.