

## EURYIAS2006's PROGRAM

### "Complexity and Diversity in Matter, Molecules, Life and Society"

November 29- December 1, 2006,  
Institut de Science et d'Ingénierie Supramoléculaires, ISIS, Strasbourg, France

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November 29, 2006

9.00: Opening Session

Chair: Angelos Michaelides and Mihai Barboiu

#### Day 1 Session I " Information, coding and representation"

9.30: Plenary lecture: Professor Bengt Nordén: Dynamics of DNA base-pair opening provides a mechanism for sequence recognition

10.30 to 11.00 Coffee break

#### Day 1 Session I "From Simple to Complex Systems: bringing the chemistry to life"

11.00: Plenary lecture: Professor Achim Müller : Nanoporous Capsules/Artificial Cells: From Aesthetics to Multifunctionality

12.00 to 13.30: Lunch

13.30 to 15.30

- ❖ Sjef Barbiers: *On the limits of language variation in Europe*
- ❖ Mirjam Ernestus: *Acoustic reduction in European languages*
- ❖ Svetlana V. Berdyugina: *Molecular diversity in the cosmos*

15.30 to 16.00: Coffee Break

Chair: Alexey Rak

16.00 to 18.00

- ❖ Jordi Bascompte: *The architecture of Biodiversity*
- ❖ Angelos Michaelides : *Atomic-scale simulations of water-solid interfaces*
- ❖ Alexey Rak : *Structural insight into Rab biogenesis*

18.00: Open discussion - all participants

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**Day 2 Session II : From self-organization toward complex systems**

November 30, 2006

**Chair: Francois Taddei**

9.30: Plenary lecture: **Professor Jean-Marie Lehn** (Nobel prize in Chemistry 1987):  
Steps Towards Complex Matter: Information, Self-organization, Adaptation in  
Chemical Systems

10.30 to 11.00 Coffee break

11.00: Plenary lecture: **Professor Ferenc Krausz** Attosecond Physics

12.00 to 13.30: Lunch

13.30 to 15.30:

- ❖ Nikos Tagmatarchis: *Multifunctional Carbon-based Nanostructured Materials: Azafullerenes, Nanotubes and Nanohorns*
- ❖ Mihai Barboiu: *Dynamic Supramolecular Materials*
- ❖ Massimiliano Cavallini: *Dynamics of Molecules on Organic Transistors (DYMOT)*

15.30 to 16.00: Coffee Break

**Chair: Jakob Reichel**

16.00 to 18.00:

- ❖ Päivi Törmä: *Nanoscale quantum systems interacting with fields: ultracold gases and molecular electronics*
- ❖ Jakob Reichel: Atom Chips: Integrating atomic coherence
- ❖ Arno Rauschenbeutel : *Using Ultra-Thin Glass Fibres as a Quantum Laboratory*

18.00: Open discussion - all participants

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Day 3 Session III, "The notion of Causality and Evolution in natural, life and cognitive sciences"

December 1, 2006

Chair: Professor Torsten N. Wiesel, (Nobel Prize in Physiology or Medicine 1981)

9.00: Plenary lecture: Professor Richard Frackowiak: The adapting brain: imaging plasticity in humans

10.00 to 10.30 Coffee break

10.30 to 12.00:

- ❖ François Taddei: *Extended Genetics: extended phenotypes, extended environment and extended inheritance*
- ❖ Zsuzsanna Izsvák: *Regulation and Application of Transposable Elements in Vertebrates*

12.00 to 13.30: Lunch

Chair: Etienne Koechlin

14.00 to 16.00:

- ❖ Frederic Geissmann : *Biology of the mononuclear phagocyte system*
- ❖ Etienne Koechlin: *How do humans decide to act?*

16.00 to 16.30: Coffee Break

16.30: **EURYI Awardees' Network Session**

Open discussion - all participants

**20.00: Gala Diner**

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