

**The IInd European Young Investigator Awardees Symposium
"IInd EURYIAS-2008"**

**"Self-organization and Selection in Evolution of Matter,
Molecules and Life"**

April 29- May 3, 2008

To be held at

**International Centre of Biodynamics,
1b Intrarea Portocalelor, Bucharest, Romania**

The IInd European Young Investigator Awardees Symposium **"IInd EURYIAS-2008"** - **"Self-organization and Selection in Evolution of Matter, Molecules, and Life"** is the second Symposium that brings together the young scientists representing all four scientific categories of the EURYI Awards: Physics, Chemistry, Medicine, Engineering and Computer Sciences and Social Sciences.

"Self-organization and Selection in Evolution" is the common theme of the "EURYIAS-2008" symposium, which will be held during 4 days between April 29 - May 3, 2008 at the International Center of Biodynamics, Bucharest, Romania where the Congress Organizer, Eugen Gheorghiu is based. The Symposium will be organized in Bucharest, by a Romanian Organizing committee under the auspices of Romanian Research Ministry and Romanian Academy.

The aim of the symposium is to create conditions for exchange and interaction, partly between the different disciplines and partly between promising young researchers and the world's leading scientists. The overall themes of the symposium will be: the self-organization and selection as a driving force for life and evolution; the evolution of physical and chemical complex dynamic structures and the development of novel systems and technologies in the service of society.

World-leading scientists and about 10 EURYI young researchers will lecture on various subjects during the days of the symposium. The programme for this four-day event will include plenary and short (EURYI laureates) lectures followed by the open discussions, end-day sessions, as well as a half-day public open session.

This will give the participants the opportunity of meeting over the boundaries of the different disciplines and the possibility of finding a common language to discuss scientific items from various perspectives.

The EURYI Awardees and about 30 selected scientists (accepted candidatures will be communicated later) from about fifteen countries will meet to exchange knowledge about one of the most important areas of research for our future. This unique occasion gathers the leading competence from four broad scientific areas to discuss scientific issues from an interdisciplinary perspective. This Symposium is devoted to areas of science where breakthroughs are occurring such as the natural science categories of the Nobel Prize: physics, chemistry and physiology or medicine or deal with other topics of cultural and social significance: sociology, computer sciences, and linguistics and laws

The Conference fee is 400 Euro. It includes access to all conference sessions, lunches & dinners and conference materials.

The payment could be done in Romanian Lei - equivalent of 1500 RON, at the Symposium secretariat opened daily during the event.

The organizers will grant a limited number of students (10) to join the EURYIAS lectures. Applicants should send to organizers (office@biodyn.ro), a proof of student status, a short CV and a letter of intent (no later than **20.04.2008)**

PROGRAM hints

Topics:

"From self-organization toward complex systems"

"The notion of Causality and Evolution in natural, life and economics"

"Information, coding and representation"

"Redundancy and diversity"

The final session on the last day will be open to the public and to international media. With physics, chemistry, biology, medicine and sociology as framework, there will be four panel discussions, each with four symposium participants, with "Self-organization and Selection in evolution" as the common theme.

List of confirmed speakers

#	NAME	Address	
1	Jean-Marie LEHN	Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg France 8 rue Gaspard Monge http://www-isis.u-strasbg.fr/supra/	Plenary Lecture
2	Achim Muller	Universität Bielefeld, Fakultät für Chemie http://www.uni-bielefeld.de/chemie/ac1/	Plenary Lecture
3	Miroslav Radman	Faculté de Médecine, Necker, Université Paris 5, TaMaRa's Laboratory http://www.neker.fr/tamara/pages/miro.html	Plenary lecture
4	Ionel Haiduc	Romanian Academy	Plenary lecture
5	Paivi Torma	Laboratory of Physics Helsinki University of Technology http://www.fyslab.hut.fi/personnel/Paivi_Torma.html	EURYI Awardee
6	Adriano Camps	UNIVERSITAT POLITÈCNICA DE CATALUNYA Remote Sensing Lab, Dept. Teoria del Senyal i Comunicacions http://www.tsc.upc.edu/prs/cv.php?id=1	EURYI Awardee April 29- 30
7	Mihai Barboiu	Institut Européen des Membranes Adaptative Supramolecular Nanosystems Group IEM/UMII, Place Eugène Bataillon, CC047 34095, Montpellier, France	EURYI Awardee
8	Svetlana V. Berdyugina	ETH Zurich	EURYI Awardee
9	Klaus-Viktor Peinemann	GKSS Forschungszentrum Geesthacht Institut für Polymerforschung Max-Planck-Str. 1, D-21502 Geesthacht, Germany	
10	Olof Ramstrom	KTH - Royal Institute of Technology, Dept of Chemistry, Organic Chemistry Teknikringen 30, S-10044 Stockholm, Sweden	

11	Sorin Paraoanu	Low Temperature Laboratory Helsinki University of Technology	
12	Daniel Funeriu	Marie Curie Excellence Team Leader Technische Universität München, Dept. Chemie, LS AC Lichtenbergstr. 4, 85747, Garching, Germany	
13	Pierre Rabu	IPCMS UMR7504 CNRS-ULP Groupe des Matériaux Inorganiques 23, rue du Loess, BP43, Strasbourg cedex 2, France	
14	Simion Astilean	Babes-Bolyai University (UBB) Institute of Experimental Interdisciplinary Research Center of Nanoscience and Nanotechnology / Nanobiophotonics Laboratory sastil@phys.ubbcluj.ro	
15	Zoltan Neda	Babes-Bolyai University (UBB) Department of Physics http://www.phys.ubbcluj.ro/~zneda	
16	Octavian Popescu	Babes-Bolyai University (UBB) Faculty of Biology and Geology	
17	Daniel Daianu	Romanian Economic Society (SOREC)	
18	Bogdan Simionescu	"Petru Poni" Institute of Macromolecular Chemistry, Iasi http://www.icmpp.ro/institute/Staff_f.htm	
19	Marius Andruh	University of Bucharest, Faculty of Chemistry Inorganic Chemistry Department	
20	Eugen Gheorghiu	International Centre of Biodynamics http://www.biodyn.ro	

PROGRAMME

	<u>April 29, 2008</u>	<u>April 30, 2008</u>	<u>May 1, 2008</u>	<u>May 2, 2008</u>	<u>May 3, 2008</u>
8:00	Registration				<p style="text-align: center;">Social Programme</p> <p>Available organized activities:</p> <p>✓ Bucharest city tour</p> <p style="text-align: center;">OR</p> <p>✓ Prahova Valley - 1 day trip</p> <p>Including touristic objectives such Bran Castle, Peles Castle, Sinaia Monastery, "George Enescu" Memorial House.</p>
8:30	Opening				
Chair	<i>I.Haiduc</i>	<i>B.Simionescu</i>	<i>O.Popescu</i>	<i>M.Barboiu</i>	
9:00	<p>Plenary lecture <i>M.Radman</i> Life's evolvability and robustness</p>	<p>Plenary lecture <i>I.Haiduc</i> Cross fertilization of Organometallic and Supramolecular Chemistry</p>	<p>Plenary lecture <i>D.Daianu</i> The current financial crisis: why models let us down</p>	<p>Plenary lecture <i>A. Muller</i> <i>Porous capsules interact specifically with their environment and with one another</i></p>	
10:00	Coffee break	Coffee break	Coffee break	Coffee break	
10:30	<p><i>O.Popescu</i> Glyconectins - a primordial class of cell adhesion molecules</p>	<p><i>M.Barboiu</i> Hybrid biomimetic membranes: past, present and beyond...</p>	<p><i>Z. Neda</i> Capillary self-organization of nanoparticles</p>	<p><i>P.Rabu</i> Functional Organic – Inorganic Assemblies</p>	
11:30	<p><i>E.Gheorghiu</i> Biodynamics: ways and means to appraise the impact of gentle stimuli on selected biological/cellular systems</p>	<p><i>O.Ramstrom</i> Dynamic Chemistry for Synthesis and Discovery</p>	<p><i>S. Astilean</i> Plasmonics - a new paradigm of photonics for guiding light and enabling novel biomedical application at nanoscale</p>	<p><i>M.Andruh</i> Molecular and supramolecular chemistry of multimetallic systems: new synthetic approaches, magnetic and optical properties</p>	
12:30	Round table	Round table	Round table	Round table	
13:00	Lunch / Equipment presentation / Demo session	Lunch / Equipment presentation / Demo session	Lunch Poster session	Lunch	

Chair	S.Astilean	M.Andruh	M.Radman	P.Rabu
14:30	<i>S.Paraoanu</i> Quantum circuits and devices	<i>B.Simionescu</i> Functional Polymers - Building Blocks for Macromolecular and Supramolecular Architectures	Plenary Lecture <i>J. M .Lehn</i> Steps Towards Complex Matter : Information, Self-organization, Adaptation in Chemical Systems	<i>K.V Peinemann</i> Molecular self-assembly as formation tool for artificial membranes
15:30	<i>P.Torma</i> Pairing in ultracold quantum gases and molecular electronics with DNA origami	<i>D.Funeri</i> Thematic Enzyme Microarrays (TEMA): On-chip screening of caspases and cathepsins activity		<i>S. Berdyugina</i> TNA
16:30	Open discussions - all participants (Coffee desk included)	<i>A. Camps</i> Earth Remote Sensing: Understanding Us and Our Environment for a Better Welfare	Press Conference & ICB tour	Open discussions - all participants (Coffee desk included)
17:30		Open discussions - all participants (Coffee desk included)	Symphonic audition "George Enescu" Museum	Closing session
19:30	Dinner/ Get together	Dinner	Gala Dinner	

TNA= Title Not Available