

SCIENTIFIC EVENTS OF THE YEAR 2004

In 26th April 2004 in Ion Heliade Radulescu Auditorium of Romanian Academy under auspices of *Quantum chemistry and spectroscopy Commission* (where professor Mihaela Hillebrand is scientific secretary), led by Academician V.Em Sahini, Professor G. Surpateanu sustained a plenary lecture in presence of distinguished audience. Conference title: *Heterocyclic compounds with specific properties COV sensors*. This conference occasioned fruitfully discussions professor G. Surpateanu, tutoring advisor with professor Cristina Mandravel of Ioana Stanculescu Ph D Thesis, is now full professor at University of Littoral Cote d'Opale and research director of Institute for organic Chemistry and Environment in Dunkerque, France.

On 30 April 2004 at Department of Physical Chemistry was organized *Scientific Session of Students and Graduated Students*. Professor Dr Elena Volanschi, chair of Physical Chemistry Department delegated Professor Dr Docent E.Segal to speak on research student's tradition in this department. Then, have been communicated and fruitfully debated 12 papers with 18 student authors. The paper: *Theoretical study of interactions ligand -protein* elaborated by master student Geambasu Madalin (under advising of professor Mihaela Hillebrand), communicated in this session, was ulterior awarded at National Scientific Session in May 2004 .

Between 1-4th June 2004 Conference EnvEdu2004 *Trends in Environmental Education* have been organized in Brasov in the framework of the Socrates /Erasmus program: *Curricula Development Dissemination (CD/DISS)* project. Program of Conference contained one plenary lecture (*Sustainable Energy and Hydrogen Economy* sustained by Joop Schooman University of Delft-Netherland), 4 keynote lectures, 15 oral communications and 34 posters.

From our faculty participants were; professors M Leca: *Environmental Management Tools* (poster), Bogdan Bucur, Andrei Danet (in collaboration with Jean Louis Marty from Perpignan University)for the poster: *Neurotoxic insecticid identification using a system with biosensor based on cholinesterases with different sensibilities to pesticides* and student Silviu Laurentiu Badea as collaborator at oral communication: *Persistent organic pollutants in the Danube River Basin*(Carmen S Chitimia and A Varduca-from ICIM-Bucharest).

Between 9-11th June 2004, Association INTERMED Romania organized at Transilvania University in Brasov INRO2004 Conference with dedication *Toward sustainable partnership between. universities and society groups*. This conference have been supported by Netherlands Foreigner Affairs Ministry. Chairs persons of conference: Professor Dr Carmen Teodosiu (University AICuza- Iassy) and Dr Henk Mulder (University Groeningen -Netherland). Conference debates in plenum were dedicated to organization of INTERMED associations in different universities for resolving of acute problems of environment in cooperation with the civil society. In poster session from our faculty (in collaboration with University of Pitesti) was a single paper: *Optimized selection of an*

antioxo drug by molecular modeling Authors: I G Bratu, I Stanculescu, V Chiosa C Mandravel.

4th International Conference of the Chemical Societies of the South –East European Countries (ICOSECS4) have been organized in Belgrade between 18-20th July 2004, under auspices of the Ministry of Science and Environmental Protection of Serbia and supported by IUPAC Federation of European Chemical Societies (FECS) and Organization for the Prohibition of Chemical Weapons (OPCW). Emblematic idea of conference: *Chemical Sciences in Changing Times: Visions, Challenges and Solutions*. Conference Program contained 7 plenary lectures, invited lectures, oral communications and posters (239). All the papers were organized in 3 sections:

Symposium A: Advanced Materials: *From fundamentals to applications*

Symposium B: The greening chemistry: *Pursuit of a healthy environment and a safe food*

Symposium C: New Concepts and strategies for changing times: *Teaching Chemistry*

Romanian participation at ICOSECS4 was very important. From our faculty it must mention *invited lectures* of Professors M Andruh (Complexes as tectons in designing supermolecular solid state architectures); V. Em Sahini (How Levinthal Paradox can be improved microbiological determinations); oral communication of Dr Marilena Fierbinteanu (Single chain magnets) and 21 posters (with 67 authors), presented by young researchers and staff of the faculty: Anca Stoica, Mihaela Badea, Otilia Cinteza, Mirela Enache, Madalin Geambasu, I.C. Marcu, Sorana Ionescu, Petruta Oancea, Loredana Preda, Ioana Stanculescu, Christina Zalaru, led by professors Ioan Sandulescu, and Dumitru Oancea (dean of the faculty). The organizers were offered a rich social and cultural program, which allowed open, interesting discussions between participants.

Between 22-26th August 2004 was organized the XVIth International Congress on Chemical Engineering, organized by Chemical Society from Czech Republic in Chisa. At section **Phase Equilibria and fluid properties** was presented the paper *High pressure phase behaviour of the system consisting of R-23 and 1-phenylpropane*. Authors: Cristina Iosif, Rodica Vilcu, Anca Duta, T. de Loos. Since R-23 is code name for refrigerator agent CHF₃, results interest of this research concerning environment factor's protection. The documents of this conference were diffused in very modern electronic form on CD.

International Society of Electrochemistry organized his 55th Annual Meeting under emblem *Electrochemistry :from Nanostructures to Power Plants* between 19-24th September in Thessaloniki, Greece. Program of meeting contained plenary lectures and 12 parallel Symposia dedicated to different aspects of this interdisciplinary area of science. These consisted from keynote lectures, oral communications and posters. The titles of plenary lectures: 1) *Surfaces and interfaces in electrochemistry* (S. Trasatti - University of Milan – Italy); 2) *Electrochemical nanotechnology for the new material design* (T. Osaka - Waseda University, Tokio-Japan); 3) *New electrocatalyst for low temperature fuel cells* (P.N. Ross-Lawrence Berkeley laboratory, CA-USA); 4) *From 1-1000nm Regular nanostructure by templated electrodeposition* (PN Bartlett-University Southampton-UK); 5) *Fuell cells. II. From systems to nanometers* (U. Stimming - Technical University of Munchen - Germany). At this prestigious manifestations from our faculty it does mention participation of professor Dr E Volanschi with an oral communication: *Spectral and electrochemical study of the reduction behavior of some dibenzo-[be]thiepinone derivatives* (with L. Preda,

V Lazarescu, A. Perjassy (Slovakia) as co-authors) and a poster: *Spectrochemical study of the interaction of some anti-tumoral drugs with nucleic acids* (in collaboration with Dr Mirela Enache). It does also mention organization of a very rich and specific Technical Exhibition at this Annual Meeting.

In 20th September 2004 in IGMurgulescu Auditorium of Faculty of Chemistry a distinguished audience participated at the following events:

- 1) Plenary lecture of Professor Gerard Vergotten (University of Science & Technology de Lille) entitled: *Intermolecular communications*
- 2) Seminar with the theme: *Selection of the optimal calculation methods for problems solving. Application to molecular inclusion*

Professor G Surpateanu and assistant professor David Landy from the University Littoral Cote D'Opale, France, leaded seminar. Both the activities claimed fruitfully discussions and were occasioned a valuable change of experience between members of staff of our faculty and the mentioned professors who were official referents at Ph D thesis of Ioana Stanculescu sustaining (in 17 September 2004).

Between 22-26th September in Slanic Moldova –Bacau have been organized 3rd French – Romanian Colloquium of Applied Chemistry (acronym CoFrRoCA) with the help from AUF and scientific support of a big number of universities from country and abroad. The program contained 8 plenary lectures, conferences oral communications and posters, organized in following sections: *Applied chemistry in pharmaceutical industry, Environmental protection, Petroleum chemistry, Processes and proceedings*. From our faculty were registered contributions in the first tree sections from departments of organic chemistry, physical chemistry and catalysis.

Prof. Dr Cristina Mandravel