

RICCE 19

**19th Romanian International Conference
on Chemistry and Chemical Engineering**

Sibiu, ROMANIA

September 2-5, 2015



- Program -

Wednesday, September 2 nd , 2015	
15.00 - 17.00	Registration
17.00 - 17.15	<i>Opening Ceremony</i> I. Calinescu, C. Secuianu, R. Stan, A. Badanoiu - University Politehnica of Bucharest, ROMANIA
17.15 - 18.00	Invited lecture (Chair: H. Iovu) IL1 <i>Nanoparticles: A Challenge of the Future</i> Ecaterina Andronescu – University Politehnica of Bucharest, ROMANIA
15.00 - 20.00	Poster session (section 6)
20.00	Welcome cocktail

Thursday, September 3 rd , 2015	
8.00 - 8.45	Invited lecture (Chairs: E. Andronescu, C. Secuianu) IL2 <i>n-Heterocyclic Carbenes as Ligands for Organometallic Compounds – New Developments</i> Wolfgang Herrmann - Technische Universität München, GERMANY
8.45 - 9.30	Invited lecture (Chairs: E. Andronescu, C. Secuianu) IL3 <i>Numerically Assisted Design of Hybrid Hydrocarbon-Alcohol Fuels</i> Jean-Nöel Jaubert - Ecole Nationale Supérieure des Industries Chimiques, FRANCE
9.30 - 10.15	Invited lecture (Chairs: E. Andronescu, C. Secuianu) IL4 <i>Shape-selective Di-isopropylation of Naphthalene in H-mordenite: Myth or Reality?</i> Wim Buijs - Delft University of Technology, NETHERLANDS
10.15 - 10.30	Coffee break
10.30 - 11.15	Invited lecture (Chairs: I. Calinescu, R. Stan) IL5 <i>Catalytic Alkyne and Butadiyne Metathesis</i> Matthias Tamm - Technische Universität Braunschweig, GERMANY
11.15 - 12.00	Invited lecture (Chairs: I. Calinescu, R. Stan) IL6 <i>150 Years after Kekulé – from Planar to Three-dimensional Aromatic Compounds</i> Henning Hopf - Technische Universität Braunschweig, GERMANY
12.00 - 12.15	Coffee break

12.15 - 13.00	Invited lecture (Chairs: H. Iovu, C. Pirvu) IL7 <i>CO₂ Photoreduction to Renewable Energy Via Artificial Photosynthesis</i> Jeffrey Chi-Sheng Wu - National Taiwan University, TAIWAN
13.00 - 13.45	Invited lecture (Chairs: H. Iovu, C. Pirvu) IL8 <i>Polymer Engineering Focusing on Drug/gene Delivery and Tissue Engineering: from Simple towards Complex Architectures and Hybrid Materials</i> Bogdan C. Simionescu - Gheorghe Asachi Technical University of Iasi, Petru Poni Institute of Macromolecular Chemistry of Romanian Academy, ROMANIA
8.00 - 14.00	Poster session (sections 5 & 6)
13.45 - 15.00	Lunch
15.00 - 18.00	Workshop Medical Engineering

Oral sessions				
	Section 3 Chairs: Ioana Demetrescu, Catinca Secuianu	Section 4 Chairs: Petru Ilea, Vasile Lavric	Section 5 Chairs: Eugenia Totu, Emanuela Craciun	Section 6 Chairs: Valeria Harabagiu, Catalin Zaharia
15.00 - 17.00				
15.00 - 15.30	345 <i>Phase Equilibria Related to Bio-oil systems</i> - P. Uusi-Kyyny, M.S. Qureshi, D. Richon, V. Alopaeus	325 <i>New Chemical Engineering Aspects in Synthesis and Use of Bacterial Cellulose</i> - T. Dobre	351 <i>The Curious Behaviour of Ferrocenated Gold Nanoparticles</i> - R. Katakay	336 <i>Polyhydrosilanes: Advanced Materials for Optoelectronics</i> - V. Harabagiu, Liviu Sacarescu
15.30 - 15.45	115 <i>Pharmacokinetics of Nebivolol and its Active Metabolite After Single Dose Oral Administration of Nebivolol</i> - A.M. Gheldiu, D.M. Muntean, I. Cristea, I. Antonescu, R. Chira, L. Vlase	191 <i>The Elaboration of New Materials and Efficient Technologies Based on Coordinative Compounds</i> - E. Coropceanu	148 <i>Effects of Organic Carbon Sources on Cell Growth and Oil Content of Microalgae Species</i> - S. Velea, S.B. Ghimis, A.M. Popescu, E. Radu	70 <i>Graphene Oxide Reinforced Gelatin – Poly(vinyl alcohol) Biocomposite Scaffolds with Controlled Properties via Freeze-thawing Processes</i> - N. Voicu, L. Crica, M. Ionita, H. Iovu
15.45 - 16.00	237 <i>Host-Guest Interactions of Amino-TEMPO Derivatives with Cucurbit[6]Urils Investigated by EPR Spectroscopy</i> - G. Ionita	162 <i>Artificial Neural Network Modelling of Mixing Efficiency in a Split-cylinder Gas-lift Bioreactor for Yarrowia lipolytica Suspensions</i> - E.N. Dragoi, S. Curteanu, D. Cascaval, A.I. Galaction	290 <i>Development of Sintered Foam Ceramics Derived From Fly Ash</i> - E. Volceanov, S.M. Badea, A. Volceanov, V. Fruth, C. Cristea, A. Micu	105 <i>Graphene Oxide Functionalization with Silanes and Siloxanes for Advanced Epoxy Nanocomposites</i> - C.M. Damian, M.A. Vulcan, H. Iovu
16.00 - 16.15	165 <i>New Chelating Azulene Modified Electrodes for Heavy Metal Ions Analysis</i> - E.M. Ungureanu, E. Diacu, G.O. Buica, L. Birzan, L.R. Mandoc (Popescu), C.A. Amarandei	257 <i>Integrated Design and Control of 1,1-diethoxy-butane Production Process</i> - A. Smochina, C.S. Bildea	60 <i>The Impact of the Use of Alternative Fuels on the Pollutants Emissions in Cement Factories</i> - E. Holban, E. Diacu, V. Daescu, G. Deak, A. Daescu	230 <i>New Polymer-Clay Controlled Drug Delivery Hybrid Materials</i> - A. Ghebaour, S.A. Garea, B. Balanuca, H. Iovu

16.15 - 16.30	109 Design and Redox Control of Switchable Supramolecular Assembly - E. Saint-Aman	249 Optimization of Total Monomeric Anthocyanin and Total Flavonoid Content Extractions from Processed Purple Potato Tubers - F. Damsa, A. Woinaroschy, G. Olteanu	47 Electrochemical Removal of Sulfide and Cod from Petroleum Wastewater - K. Dermentzis, D. Marmani, A. Christoforidis, D. Stergiopoulos	67 Organic-inorganic Hybrid Materials Based on Epoxy Resin / Epoxy Functionalized Poly(dimethylsiloxane) Reinforced with Polyhedral Oligomeric Silsesquioxanes (POSS) - N.M. Florea, A. Lungu, C. Ionescu, A. Mitu, H. Iovu
16.30 - 16.45		5 Critical Variety under Parametric Uncertainty for the Benzene Oxidation Industrial Catalytic Reactor - C. Muscalu, G. Maria	137 Polystyrene/Mesoporous Carbon Sorbents for Heavy Metal Ions Removal - M. Ignat, L. Sacarescu, V. Harabagiu	28 New Biocompatible Diblock Copolymer Based on Dextran - M.C. Stanciu, M. Nichifor
16.45 - 17.00	34 Linear and Non-linear Calibration Models for Kinetic Determination of Copper(II) - A.A. Csavdari, D.M. Sabou	3 Radioactive Soils Decontamination using Mushrooms - A.D. Radu, A. Woinaroschy, E. Panturu, A. Filcenco-Olteanu	49 The Performance of Pollutants Removal in a Civil WWTP Using Membrane MBR Ultrafiltration and Ozone - M. Ghimpusan, A. C. Nechifor, Gh. Nechifor, P. Passeri	232 Enhanced Cells – Gelatin/PHEMA Hydrogel Interactions due to Fibronectin Physical Immobilization - D.M. Dragusin, Sandra Van Vlierberghe, P. Dubruel, H. Declercq, M. Cornelissen, I.C. Stancu
17.00 - 17.15	Coffee break			
Oral sessions				
17.15 - 19.00	Section 3 Chairs: Eleonora Mihaela Ungureanu, Florentina Golgovici	Section 4 Chairs: Jiri Jaromir Klemes, Valentin Plesu	Section 5 Chairs: Cristina Costache, Annette Madelene Dancila	Section 6 Chairs: Mariana Ionita, Catalin Zaharia
17.15 - 17.30	220 Corrosion Performance of Electrochemically Obtained Ni-Mo and Co-Mo Alloys Coatings Involving Ionic Liquids Analogues - L. Anicai, S. Costovici, O. Brincoveanu, A.G. Apaz, C.M. Pereira, A.F. Silva, T. Visan	168 Industrial Use of Electron Beam in the Area of Environmental Protection, Material Modification and Food Processing - Y. Sun, A.G. Chmielewski	352 Emerging Sensing Technologies: Precise Detection Cystic Fibrosis Disease, Urea Watch, Ischemia Modified Albumin Detection, Continues Monitoring of Plant Nutrients in Hydroponic Greenhouse, and in Soils - I. Ilsidak	83 Towards New Approach in Graphene Oxide - Polybenzoxazines Synthesis - I. Biru, C.M. Damian, S.A. Garea, H. Iovu
17.30 - 17.45				273 Dimensional Study of N-acryloyl morpholine Copolymers with Potential Application in Biophotonics - A. Dibla, A.M. Albu, I. Rau
17.45 - 18.00	301 PH Sensing in Non-Aqueous Solutions by AlGaIn/GaN ISFETs - J. Anzt, M. Bitterling, V. Cimalla	126 The Tempo Story: Regioselective Oxidation of Natural Polysaccharides toward Bioactive Polyuronic Acid as Drugs of Tomorrow? - C. Delattre, G. Pierre, C. Laroche, P. Michaud	155 Equilibrium Study of Cu(II) Retention on a River Sediment - D.G. Apostol, C. Modrogan, C. Costache, S. Lanyi	127 Novel Bionanocomposites Based on Polyhydroxyalkanoates and Mineral Clays by Melt Intercalation for Biomedical Applications - I. Radu, C. Zaharia, P. Stanescu, M. Rapa, M.C. Bunea, E. Vasile, C. Andronescu, B. Galateanu

18.00 - 18.15	226 <i>Influence of Electrolyte Water Contents on Titanium Surface Modification</i> - C. Dumitriu, C. Ungureanu, C. Pirvu	182 <i>Complete Integration of Glycerol into the Biodiesel Production Process</i> - A. Trifoi, T. Pap, A. Crucean, S. Agachi	291 <i>A New Approach for Recovery Procedure of the Unconventional Material -LF Slag- for Acid Soil Amendments</i> - L.G. Popescu, F. Zaman, E. Volceanov, I. Anger, M. Mihalache, L. Ilie	330 <i>Effects of Crosslinking Density on the Mechanical Performances of Polyurethanes Elastomers</i> - D. Ionita, M. Cristea, C. Gaina, D. Banabic
18.15 - 18.30	42 <i>New Surfactant-Free Method and Variations on Classic Methods for Obtaining Noble Metal Nanoparticles</i> - L. Buhalteanu, O.I. Covaci, R.A. Mitran, C.M. Manta, D.G. Dumitrescu, M.C. Radulescu	130 <i>Critical Analysis of Enzyme Selection, Expression, and Production Potential of New Biosynthetic Pathway Enzymes in Different Knock-out Mutants of Escherichia coli</i> - R. Sinkler, I. Miklossy, Z. Bodor, K.C. Orban, S. Lanyi, B. Abraham	46 <i>Neural Modeling and Optimization of an Industrial Mechanical-Chemical Effluent Treatment</i> - R.M. Diaconescu, C. Zaharia	240 <i>Nanocomposites Based on Polymer and Porous Clay Heterostructures</i> - S.A. Garea, A.I. Mihai, A. Ghebaur, M. Pandelescu, H. Iovu
18.30 - 18.45	284 <i>Direct Electrochemistry of Catalase on Graphene Electrodes - Implications in Biosensing</i> - M. Raicopol, A.M. Brezoiu, C. Andronescu, E. Vasile, L. Pilan	150 <i>Bacterial Strains with Structural Polysaccharide Hydrolyzing Capacity</i> - M. Koncz, E. Laslo, S. Lanyi, B. Abraham	245 <i>Ozone Interaction with the Environment and Biological Systems</i> - M. Marcvar, S. Tiron, A. Alassadi, L. Stoica	30 <i>Anionic Polymerization by an Electron Transfer Process from a CdSe Quantum dot-perylene-3,4,9,10-tetracarboxylic diimide (PDI) system</i> - E. Rusen, A. Diacon
18.45 - 19.00	112 <i>Kinetics of Hydrogen Evolution Reaction on Lead and Some Lead Alloys</i> - A. Nicoara, D.M. Sabou, J.D. Chelaru	318 <i>CFD-DEM and Experimental Study of Slot-rectangular Spouted Bed</i> - M. Saidi, Z. Wang, H. Basirat Tabrizi, J.R. Grace, C.J. Lim	205 <i>Fe(II,III) Separation from Aqueous Media by Precipitate Flotation</i> - L. Stoica, C. Constantin, M. Nicolau, I. Nitoi, G. Oproiu	132 <i>Novel Hydrogels Based on Poly(2-isopropenyl-2-oxazoline)</i> - A.M. Anghelache, V. Jerca, M. Teodorescu, D.M. Vuluga
19.00 - 19.15		363 <i>Microwave Technology from Laboratory to Industrial Scale</i> - M. Radoiu		282 <i>Nanotechnology, Nanomaterials, and the Intellectual Property System</i> - F. Popa, A. Fica, A. Popescu, V. Popescu
14.00 - 20.00	Poster session (section 5)			
20.30	Chairman's banquet			

Friday, September 4 th , 2015	
8.00 - 8.45	Invited lecture (Chair: E. Totu) IL9 <i>Regulation of Plant Growth and Development by Application of Nano-sized Materials</i> Mariya Khodakovskaya - University of Arkansas at Little Rock, USA
8.45 - 9.30	Invited lecture (Chairs: A. Badanoiu, C. Orbeci) IL10 <i>New concepts of Quality Assurance in Analytical Chemistry: Will they Influence the Way We Conduct Science in General?</i> Jens Enevold Thaulov ANDERSEN - Botswana International University of Science and Technology, BOTSWANA

9.30 - 10.15	Invited lecture (Chairs: A. Badanoiu, C. Orbeci) IL11 Boron Clusters in Medicinal Chemistry Evamarie Hey-Hawkins - Universität Leipzig, GERMANY			
10.15 - 10.30	Coffee break			
10.30 - 11.15	Invited lecture (Chairs: S. Rosca, T. Dobre) IL12 Biogenic Amine Formation in Fermented Food and Their Impact on Health Livia Simon Sarkadi - Corvinus University of Budapest, HUNGARY			
11.15 - 12.00	Invited lecture (Chairs: S. Rosca, T. Dobre) IL13 Contribution of Chemical Engineering Concept for Developing Food Process Engineering. Example of Osmotic Dehydration and Foaming Process Reza Djelveh - Ecole Nationale Supérieure de Chimie, Clermont Ferrand, FRANCE			
12.00 - 12.15	Coffee break			
12.15 - 13.00	Invited lecture (Chairs: I. Calinescu, H. Iovu) IL14 Inverse Coordination. A New Concept in Inorganic Chemistry Ionel Haiduc - University Babes-Bolyai Cluj-Napoca, Romanian Academy, ROMANIA			
13.00 - 13.45	Invited lecture (Chairs: I. Calinescu, H. Iovu) IL15 Synthesis of 2D polymers Dieter Schlueter – ETH Zurich, SWITZERLAND			
8.00 - 14.00	Poster session (sections 2 & 4)			
13.45 - 15.00	Lunch			
15.00 - 18.00	Workshop "New Trends in Education for Chemistry, Chemical Engineering and Materials Science"			
Oral sessions				
15.00 - 17.00	Section 1 Chair: Raluca Stan	Section 2 Chair: Daniela Istrati	Section 4 Chairs: Grigore Bozga, Raluca Isopescu	Section 6 Chairs: Alina Badanoiu, Vayos Karayannis
15.00 - 15.15	314 NMR Spectroscopy: Pure, Impure or Mixtures? - C. Deleanu	334 Plant Enzyme Extracts Obtaining, Immobilization on Activated Charcoal, for use in Dietary Supplement Industry - A. Cozea, R. Gruia, V. Tamas, M. Popescu, M. Neagu	"Raul Mihail" Symposium: RAUL MIHAIL, The Founder of the Chemical Reactors School in Romania - O. Muntean, I. Nagy	276 Modification of Functional Properties Induced by Size Effects in Barium Titanate Zirconate Ceramics - A.C. Ianculescu, D.C. Berger, C.A. Vasilescu, B.S. Vasile, G. Fantozzi, I. Pintilie, L. Trupina, L.P. Curecheriu, L. Mitoseriu
15.15 - 15.30			343 Innovative Chemical Reaction System for Biodiesel Manufacturing by Heterogeneous Catalysis - A. Dimian, G. Rothenberg	

15.30 - 15.45		45 Microwave Assisted Extraction of Polyphenols from Sea Buckthorn Leaves - I. Asofiei, I. Calinescu, A. Trifan, A.I. Gavrila, D. Ighigeanu, D. Martin		125 Oxide Fibers Obtained via Electrospinning - C. Busuioc, V.A. Surdu, C. Jinga, E. Andronescu
15.45 - 16.00	100 Supramolecular Organic Synthesis using Azulene Derivatives - A.E. Ion, S. Shova, M. Andruh, S. Nica	185 Improving the Quality of Sunflower Oil by Valorization of Vegetable Waste from the Wine Industry - M.C. Todasca, M. Tociu, A. Bratu, M. Radu, M. Mihalache, V. Artem, F. Manolache, M.D. Stanescu	361 Added value of Advance Process Control implementation for Refinery Processes - C.M. Dumitrescu	277 Microstructure and Dielectric Behaviour of Some Cerium-doped Barium Titanate Ceramics Obtained via Sol-Gel Processing - C.A. Vasilescu, R. Trusca, I. Pintilie, M. Cernea, B.S. Vasile, A.C. Ianculescu
16.00 - 16.15	87 A Fast Spectroscopic Screen for the Encapsulation of Aminoacids in Self-Assembled Molecular Flasks in Solution and Solid State - D.G. Dumitrescu, A. Hanganu, R.A. Mitran, S. Shova, F. Dumitrescu	73 Ordered Mesoporous Silicas Obtained in Acidic Medium as Supports for Enzymes and other Biocompounds - M. Ciobanu, M. Filip, D. Culita, C. Munteanu, E. Neagu, G. Paun, V. Parvulescu	16 Influence of Electromagnetic Radiation on Microalgae Growth - A.M. Popescu, I. Calinescu, S. Velea	247 Nanomaterials Based on TiO ₂ Used in Water Treatment - L.C. Bodea
16.15 - 16.30	26 Conjugated "Azure" Colored Hydrazones for Anion Receptors - A. Hanganu, A.E. Ion, S. Nica	104 Polymorphic Behaviour and Discovery of New Crystalline Forms with Improved Solubility of [4-hydroxybenzoic Acid ((5-nitro-2-furanyl)methylene)hydrazide] Antibacterial Drug - C.M. Manta, R.A. Mitran, O.I. Covaci, L. Buhalteanu, D.G. Dumitrescu	52 SO ₂ and NO _x Removal via non Thermal Plasma – Influence of Variable Irradiation Dosage - V. Gogulancea, V. Lavric	192 Copper Nanoparticles' Synthesis from Used Complex Catalysts - E.I. Szerb, L. Cseh, T. Balazs, R. Tudose, M. Lazarovici, C. Locovei, L. Demetrovici, O. Costisor
16.30 - 16.45	223 1,3-Dipolar Cycloaddition Reaction of the Cycloimmonium N-Ylides: Synthetic Tool for Nitrogen Containing Bisheterocycles - M.M. Popa, E. Georgescu, F. Georgescu, R. Stan, C. Draghici, F. Dumitrescu	108 A Case Study Regarding the Crystalline Polymorphism of an Immunosuppressive Drug- O.I. Covaci, R.A. Mitran, C.M. Manta, D.G. Dumitrescu, L. Buhalteanu	143 A Comparison between Unsteady State Reverse Flow Reactor and Steady State Series of Fixed Bed Reactors for Methanol Synthesis - I. Stoica, I. Banu, G. Bozga	142 Magnetite-based Nanosystems with Antitumor Activity - R.C. Popescu, D. Savu, E. Andronescu, M. Mihailescu, G.D. Mogosanu, L. Mogoanta, A.M. Grumezescu
16.45 - 17.00	123 Catalytic Depolymerization of Polyethylene Terephthalate (PET) Wastes: Organic vs. Metal-Catalysis - S. Nica, S. Ionescu, A. Hanganu, M. Dudner, S. Iancu, C. Draghici, E. Bartha	129 Development of Magnetic Silk Fibroin Scaffolds for Tissue Engineering Applications- M.C. Bunea, C. Zaharia, E. Vasile, B. Galateanu, P.O. Stanescu, H. Iovu	8 Model-based Optimization of Biochemical Reactors including Interconnected Complex Enzymatic Processes - M. Crisan, G. Maria	198 Copper(I) Complexes for DSSC Applications - D. Aparaschivei, C. Cretu, L. Cseh, R. Tudose, E.I. Szerb, O. Costisor

17.00 - 17.15	Coffee break			
	Oral sessions			
17.15 - 19.00	Section 1 Chair: Cristian Matei	Section 2 Chair: Daniela Istrati	Section 4 Chairs: Alexandre Dimian, Tiberiu Dinu Danciu	Section 6 Chairs: Ecaterina Andronescu, Stefania Stoleriu
17.15 - 17.30	278 Mesoporous Titania as Vehicle in Drug Delivery Systems - A.I. Iorgu, C. Matei, R.A. Mitran, C. Munteanu, D. Berger	77 Hydrogels based Gellan/Carboxymethyl Cellulose in the Particulated Form for Yeast Cells Immobilisation - C.E. Iurciuc (Tincu), A. Savin, P. Martin, M. Popa	358 Laboratory Pilot Plant Prototypes for Reactive Distillation - V. Plesu, P. Iancu, J. Bonet-Ruiz, A. Toma, N.G. Stefan, V. Mihai	303 Valorization of Olive-mill Wastewater in Ceramic Manufacturing Focusing on Energy Savings and CO ₂ Emission Reductions - X. Spiliotis, V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou
17.30 - 17.45		204 Globins as Multifaceted Oroteins: A Never Ending and Fascinating Story - A. Mot, F. Scurtu, C. Bischin, N. Dissmeyer, R.S. Dumitrescu		
17.45 - 18.00	37 Modulation of Drug Release Rate from Mesoporous Silica Carriers through Excipient-Silica Interactions - R.A. Mitran, C. Matei, D. Berger	209 Biological Potential of Some New Copper(II) Complexes with Benzimidazoles - I.D. Vlaicu, M. Badea, R. Olar, M.C. Chifiriuc, C. Bleotu	138 Coupling Exothermic and Endothermic Reactions - Application to Combined Furfural Hydrogenation / 1, 4-butanediol Dehydrogenation - A. Javaid, C.S. Bildea	7 Geopolymers Based on Fly Ash, Waste Glass and Red Mud - Taha H. Abood Al-Saadi, A.I. Badanoiu, G. Voicu
18.00 - 18.15	285 Preparation and Characterization of RGD-Peptides Labelled with ⁶⁸ Ga - R. Leonte, F. Puicea, M. Mihon, G. Cata-Danil, D. Niculae	263 Molecular Characterization of Neuronal Protein Aggregates by a New Mass Spectrometric Approach - B.A. Petre, L. Ion, C. Andries, B. Gau, M. Gross	326 Rational Use of Cooling Water in Heat Exchanger Network on Industrial Site - M.C. Tohaneanu, V. Plesu, P. Iancu, A.E. Bonet Ruiz, J. Bonet Ruiz, B. Muchan, M. Ionita	76 Improving the Quality of Concretes Containing Recycled Aggregates by Two Stage Mixing in the Presence of Additives - V. Craciun, D. Voinitchi, A. Badanoiu, G. Voicu, R. Voinitchi
18.15 - 18.30	271 Magnetic Core-Shell Nanoextraction Systems for GC-MS Analyses - D. Istrati, D. E. Mihaiescu, D. Gudovan, B. Purcareanu, M. Radu, A. Fudulu, S.I. Rosca		188 A Study of Co Content Influence on the Activity of LDH-derived CoMgAlO Catalysts in Methyl-isobutyl Ketone Combustion in Lean Air Mixtures - I. Popescu, I. Banu, I.C. Marcu, G. Bozga	75 Mechanical Properties of Pervious Concrete. Influence of Composition and Processing Parameters - R. Voinitchi, A. Badanoiu, D. Voinitchi, V. Craciun
18.30 - 18.45	19 Lower Olefin Synthesis in Fischer Tropsch Process using a Fe-Ni Catalyst - I.T. Sibianu, I. Calinescu, P. Chipurici		350 Development of Multimedia in Modern Teaching of Chemical Engineering - P. Iancu, T.D. Danciu, R.S. Onofrei	310 Effect of SnO ₂ on the Formation and Hydration of Tricalcium Silicate - D.C. Nastac, L. Predoana, I. Atkinson, J. Pandeale, C. Munteanu, V. Fruth

18.45 - 19.00	272 <i>Corona Plasma Synthesis of Thin Film Nanocomposites</i> - D. Istrati, D.E. Mihaiescu, D. Gudovan, M. Colie, A. Surdu, B. Vasile, A. Ficai, A. Ianculescu, E. Andronescu		320 <i>The Concept of Flow (Bio)chemistry and Its Applications</i> - S.O. Dima, T. Dobre, F. Oancea	255 <i>Physical and Morphological Properties for Phosphate-based Magneto-Optical Glasses</i> - M. Eftimie, A. Melinescu, Z. Ghizdavet, A. Volceanov
14.00 - 20.00	Poster session (section 3)			
20.30	Gala dinner			

Saturday, September 5 th , 2015				
8.00 - 8.45	Invited lecture (Chairs: C. Costache, T.D. Danciu) IL16 <i>Control of Structure and Functionality of Amino Acids and Natural-Based Glycopeptides by Incorporating them in Host Molecules</i> Ion Neda - Technische Universität Braunschweig, GERMANY			
8.45 - 9.30	Invited lecture (Chairs: C. Costache, T.D. Danciu) IL17 <i>Innovation in Sustainable Chemical Process Design: from Fossil to Renewable Raw Materials</i> Alexandre Dimian - University of Amsterdam, NETHERLANDS			
9.30 - 9.45	Coffee break			
9.45 - 10.30	Invited lecture (Chairs: I. Calinescu, V. Plesu) IL18 <i>Environmental Impact Quantification: Export-Import of Virtual Carbon and Water flows Embodied in International Trade</i> Jiri Jaromir Klemes - University of Pannonia, Veszprem, HUNGARY			
10.30 - 11.15	Invited lecture (Chairs: I. Calinescu, V. Plesu) IL19 <i>New Carbon-Carbon Coupling Reactions Mediated by Aluminum, Chromium and Samarium Reagents</i> Sorin Rosca – President of the Romanian Chemical Society, ROMANIA			
11.15 - 11.30	Coffee break			
Oral sessions				
11.30 - 13.00	Section 1 Chair: Daniela Berger	Section 3 Chairs: Anca Cojocaru, Oana Ciocirlan	Section 6 Chairs: Izabela Stancu, Catalin Zaharia	Workshops
11.30 - 11.45		229 <i>New Coatings Based on Nanostructured TiO₂ and CeO₂NP</i> - S. Popescu, C. Dumitriu, C. Ungureanu, R. Ion, C. Pirvu		<i>New Trends and Applications Developed by Agile Technologies</i> – A. Mogos

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