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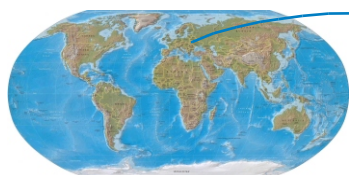
# The International Symposium PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT

## Programme

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## PLENARY PROGRAMME

Thursday, 26<sup>th</sup> October 2017

**9:45 - 10:15**  
**Plenary 1**  
**MIP BUILDING: DO BETTER BRICKS MAKE BETTER STRUCTURES?**  
**Andrew J. Hall\***  
Medway School of Pharmacy, Universities of Greenwich & Kent, Anson Building,  
Central Avenue, Chatham Maritime, Chatham, Kent, ME4 4TB

**10:15 - 10:45**  
**Plenary 2**  
**INJECTABLE THERMOSENSITIVE HYDROGELS FROM N-ISOPROPYLACRYLAMIDE HOMO- AND BLOCK CO-POLYMERS**  
**Mircea Teodorescu\***  
Department of Bioresources and Polymer Science, Faculty of Applied Chemistry  
and Materials Science, Polytechnic University of Bucharest, 1-7 Polizu Str.,  
011061, Bucharest, Romania

**10:45 - 11:15**  
**Plenary 3**  
**INTERPHASES AND DURABILITY IN POLYMER BASED COMPOSITE MATERIALS: CHARACTERIZATION AND MODELIZATION**  
**Jean-François Chailan\***, **Lénaïk Belec**, **Yoan Joliff**, **Ahmad Fahs**  
Laboratoire MAPIEM – EA 4323 – Université de Toulon - CS 60584 – 83041  
Toulon Cedex 9, France

**11:15 - 11:30**

**Coffee break**

**11:30 - 12:00**  
**Plenary 4**  
**THE USE OF CHEMICAL ENGINEERING RESEARCH AND MODELING IN FOOD PROCESSING INDUSTRY**  
**Tanase Dobre<sup>1,2\*</sup>**  
<sup>1</sup>Faculty of Applied Chemistry and Materials Science, Polytechnic University of  
Bucharest, 1-7 Polizu Str., 011061, Bucharest, Romania; Academy of Technical  
Sciences of Romania, 26 Dacia Blvd., 010413, Bucharest, Romania

**12:00 - 12:30**  
**Plenary 5**  
**CARBON MATERIALS FROM POLYMER WASTES**  
**B. Tsyntsarski<sup>1\*</sup>**, **M. Todorova**<sup>1</sup>, **N. Petrov**<sup>1</sup>, **T. Budinova**<sup>1</sup>, **B. Petrova**<sup>1</sup>, **I. Stoycheva**<sup>1</sup>,  
**A. Sarbu**<sup>2</sup>, **A.L. Radu**<sup>2</sup>, **E.B. Georgescu**<sup>2</sup>, **T. Sandu**<sup>2</sup>  
<sup>1</sup>Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences,  
Acad. G. Bonchev str., BL. 9, 1113, Sofia, Bulgaria; <sup>2</sup>ICECHIM, 202 Spl.  
Independentei, 060021, Bucuresti, Romania

**12:30 - 13:00**  
**Plenary 6**  
**INORGANIC CONSOLIDANTS AND PROTECTIVE TREATMENTS FOR ROMANIAN MONUMENTS**  
**Rodica Mariana Ion<sup>1,2\*</sup>**  
<sup>1</sup>INCDCP-ICECHIM, 202 Spl. Independentei, 060021, Bucuresti, Romania;  
<sup>2</sup>Valahia University, Materials Engineering Dept., 18-24 Unirii Blvd, 130082,  
Targoviste, Dambovita, Romania

## PLENARY PROGRAMME

Friday, 27<sup>th</sup> October 2017

### IMPROVEMENT FOR ION IMPRINTING TECHNIQUE

**Katri Laatikainen<sup>1\*</sup>, Catherine Branger<sup>2</sup>, Bruno Coulomb<sup>3</sup>, Véronique Lenoble<sup>4</sup>, Tuomo Sainio<sup>5</sup>**

**9:00 - 9:30**  
**Plenary 7**

<sup>1</sup>Laboratory of Chemical Metrology, Lappeenranta University of Technology, P.O. Box 20, FI-53851 Lappeenranta, Finland; <sup>2</sup>Laboratoire MAPIEM, EA 4323, Université de Toulon, 83957 La Garde, France; <sup>3</sup>CNRS, LCE, Aix-Marseille Université, Marseille, France; <sup>4</sup>Laboratoire PROTEE, EA 3819, Université de Toulon, 83957 La Garde, France; <sup>5</sup>Laboratory of Separation Technology, Lappeenranta University of Technology, P.O. Box 20, FI-53851 Lappeenranta, Finland

**10:00 - 10:15**

**Coffee break**

# Section 1

## MULTIFUNCTIONAL MATERIALS AND NANOCOMPOSITES

**ORAL presentations**  
**Thursday, 26<sup>th</sup> October 2017**

*Chairpersons (14:30 – 15:45): Andrew Hall, Andrei Sarbu*  
*Chairpersons (16:15 – 17:15): Mircea Teodorescu, Raluca Ianchis*

14 <sup>30</sup> -14 <sup>45</sup>	D.M.-Yerga, A. Pérez-Junquera, D.H. Santos, <u>P.F. Bolado</u>	<i>In situ</i> sers effect studies with screen-printed electrodes and a compact Raman Spectroelectrochemical instrument
14 <sup>45</sup> -15 <sup>00</sup>	<u>S. Robu</u> , T. Potlog, G. Dragalina, A. Popușoi, I. Lungu, N. Nasedchina, A. Chirita	Photosensitive layers from carbazole copolymers sensitized with metalophthalocyanines
15 <sup>00</sup> -15 <sup>15</sup>	<u>C. Tănase</u> , C. Draghici, L. Pintilie, C. Negut, M. Maganu	New OH-protected optically active intermediates for synthesis of constrained carbocyclic nucleosides
15 <sup>15</sup> -15 <sup>30</sup>	<u>C. Marinescu</u> , A. Sofronia, S. Tanasescu, C. Teisanu	Physico-chemical properties of hydroxyapatite/titania nanocomposites and the mechanism of formation reaction
15 <sup>30</sup> -15 <sup>45</sup>	<u>M. Deaconu</u> , D. Constantin, C. Goldmann, R.A. Mitran, C. Matei, D. Berger	Studies on the stability of mesoporous silica in biological fluids
15 <sup>45</sup> -16 <sup>15</sup>	<i>Coffee break</i>	
16 <sup>15</sup> -16 <sup>30</sup>	<u>P. Ghioca</u> , R.M.Grigorescu, L. Iancu, B. Spurcaci, C.A.Nicolae, A.R. Gabor	Styrene-diene block-copolymers reinforced with polystyrene
16 <sup>30</sup> -16 <sup>45</sup>	<u>A.M. Brezoiu</u> , M. Deaconu, D. Berger, C. Matei	Lomefloxacin delivery systems based on MCM-41-type carriers
16 <sup>45</sup> -17 <sup>00</sup>	<u>R.A. Mitran</u> , C. Matei, D. Berger	Controlling drug delivery kinetics from mesoporous silica carriers through drug-silica interactions
17 <sup>00</sup> -17 <sup>15</sup>	<u>B. Cursaru</u> , A. Zaharia, A.-L. Radu, A. Sarbu, T.-V. Iordache, A.-M. Florea, R. Ianchis, C.-M. Damian, T. Sandu, F.-X. Perrin, M. Teodorescu	New poly(ethylene glycol) composite hydrogels with nanozeolite as the filler for controlled delivery applications

# Section 1

## MULTIFUNCTIONAL MATERIALS AND NANOCOMPOSITES

### POSTERS

#### 25<sup>th</sup> - 27<sup>th</sup> October 2017

Short Poster Presentations: Friday, 27<sup>th</sup> October 2017, 11:00 - 13:00

S1-P1	<u>M. Icriverzi</u> , P. Florian, M. Trif, I.C. Gifu, R. Ianchis, A. Roseanu	<i>In vitro</i> biocompatibility investigation of montmorillonite clay-based particle as potential drug carrier systems
S1-P2	M. Grinco, A. Barbă, V. <u>Kulcitki</u> , A. Dizdari, V. Prisăcari, S. Robu	Lignin polymer analogues with bactericide properties
S1-P3	<u>M. Mironescu</u> , I.D. Mironescu	Obtainig and characterisation of starch-based edible films incorporating natural green colorants
S1-P4	E.M. Lungulescu, <u>I. Ion</u> , N.O. Butoi, A-M. Luchian, R. Ducu, V. Marinescu	Radiation induced synthesis and characterization of silver nanoparticles
S1-P5	<u>M. Raduly</u> , V. Raditoiu, A. Raditoiu, V. Amariutei, L. Wagner	Luminophore hybrid coatings for textile materials
S1-P6	<u>A. Zaharia</u> , C-P. Spatarelu, A.-L. Radu, B. Cursaru, T.-V. Iordache, A.-M. Florea, T. Sandu, S. Apostol, A. Sarbu, M. Teodorescu, F.-X. Perrin	Preparation of 5-Fluorouracil loaded zeolite nanoparticles as drug delivery systems
S1-P7	A.M. Popescu, O. Demidenko, K.Yanushkevich, <u>E.I. Neacșu</u> , C. Donath, A. Galyas, A. Zhyvulka, V. Constantin	Crystal structure, magnetic properties and corrosion behaviour of the modified special steels in ionic liquids
S1-P8	<u>D. M. Panaitescu</u> , A. N. Frone, I. Chiulan, R. A. Gabor, C.A. Nicolae, M. Ghiurea, B. Trica, D. Florea	Surface functionalization of nanocellulose for biomedical applications
S1-P9	L. Iordache, I.G. David, <u>M.C. Cheregi</u> , D.E. Popa, M. Buleandra	Voltammetric investigation of ferulic acid using a disposable pencil graphite electrode
S1-P10	<u>M. Marinescu</u> , I. Stanculescu, G. Marton	Synthesis, spectral and thermal characterization of new copper (II) and iron (III) complexes

S1-P11	M. Todorova, <u>B. Tsyntsarski</u> , N. Petrov, T. Budinova, B. Petrova, I. Stoycheva, A. Stoyanova, A.L Radu, E.B. Georgescu, S. Apostol, T. Sandu, A. Sarbu	Biomass and polymer based carbons for electrochemical applications
S1-P12	<u>E. Grosu</u> , C. Opran, M. Enachescu, M. Rapa, A. Turcanu, A. Andras, A. Trifoi	Biodegradable polymeric composite based on PBAT
S1-P13	<u>C. Negut</u> , C. Tanase, L. Pintilie, D. I. Udeanu, E. Morosan, C. Draghici, M. Maganu	Fatty acid amide analogues with potential biological effects
S1-P14	K. H. Jaber, <u>M. Mernea</u> , O. Calborean, L. Petrescu, I. Gheorhe, D.F. Mihailescu, G. Stoian	Silver doping enhances the interaction of Zein nanoparticles with gram-negative bacteria lipopolysaccharides
S1-P15	<u>M. Deaconu</u> , A.A. Athanasiu, S. Doncea, R. Senin, M. Mateescu	Physico-chemical, morphostructural and coloristical characterization of modified pigments for leather dyeing
S1-P16	<u>B. Spurcaci</u> , L. Iancu, P. Ghioca, R. Grigorescu, C. Nicolae, R. Gabor, I. Bujanca, M. Rapa, E. Grosu, M. Matei	The effect of styrene-isoprene block-copolymers and clays on polymer composites based on polypropylene
S1-P17	<u>C.L. Nistor</u> , S.G. Nițu, E. Alexandrescu, C. Petcu, R. Ianchiș, R. Șomoghi, I.C. Gîfu, B. Trică, C.M. Ninciuleanu	Morphological and structural properties of alkyl-modified silica particles obtained from sodium silicate
S1-P18	<u>R. Ganea</u> , S. Velea, G. Vasilievici, D. Bombos	Zirconium modified SBA-15 mesoporous silica
S1-P19	<u>M.E. Grigore</u> , M. Ghiurea, R. Trusca, R. Stoica, C. M. Ninciuleanu, R. Ianchis, R. M. Grigorescu, M. Ladaniuc, D. Dimonie	Increase the performance of the cumulative fabrication technique by controlling the adhesion between the layers via melt rheology
S1-P20	<u>M.E. Grigore</u> , M. Ghiurea, M. L. Jecu, I. Raut, M. Calin, S. Doncea, R. Trusca, R. Stoica, C.M. Ninciuleanu, R. Ianchis, R.M. Grigorescu, M. Ladaniuc, D. Dimonie	Biodegradation of some renewable items achieved by comparative techniques: 3D printing and classic melt flowing

S1-P21	<u>M.E. Grigore</u> , R. Stoica, R. Trusca, M. Ghiurea, C.M. Ninciuleanu, R. Ianchis, R.M. Grigorescu, M. Ladaniuc, D. Dimonie	Morphological dependencies on the obtaining procedure of renewable plastic items: 3D printing and classic melt flowing
S1-P22	<u>B. Spurcaci</u> , R. Grigorescu, P. Ghioca, L. Iancu, N. Nicolae, R. Gabor, I. Bujanca, M. Rapa, E. Grosu, E. Matei	Polymer composites based on polypropylene with styrene-butadiene block-copolymers and clays
S1-P23	D. López-Iglesias, J. J. García-Guzmán, J. M. Palacios-Santander, L. Cubillana-Aguilera, M. Marin, S. Lupu, <u>C. Lete</u>	New electrochemical sensor developed for n-acetyl-5-methoxytryptamin detection
S1-P24	J.J. Garcia-Guzmán, L. Cubilana Aguilera, D. Bellido-Milla, C. Lete, M. Marin, J.M. Palacios Santander, <u>S. Lupu</u>	Electrochemical biosensors based on composite materials for catecholamines and polyphenols analysis
S1-P25	<u>C. Chelaru</u> , M. Ignat	Synthesis and characterization of microcapsules based on natural biopolymers and laurel essential oil
S1-P26	A. Băran, A. Iovescu, M. Gosecka, G. Stîngă, S. Peretz, T. Basinska, S. Slomkowski, M.E. Maxim, <u>D.F. Anghel</u>	Impact of surfactants on polyglycidol in water. A survey by surface tension, fluorescence, DLS and FTIR
S1-P27	<u>T. Sandu</u> , A. Sarbu, B. Tsyntsarski, T. Budinova, C. M. Damian, A.-L. Radu, T.-V. Iordache, A.-M. Florea, A. Zaharia, S. Apostol	Innovative hybrid polymer membranes with carbon powders content: Preparation and characterization
S1-P28	<u>Z. Vuluga</u> , M.C. Corobea, M. Iorga, D. Florea, C. A. Nicolae, V. Raditoiu, M. Ghiurea, R. Somoghi, B. Trica	The effect of halloysite nanotube functionalization on PMMA-halloysite nanotube nanocomposites properties
S1-P29	<u>A.I. Subtirica</u> , M.G. Albu Kaya, A.A.-M. Chivu	Chitosan and PVA porous tridimensional structures with high affinity for fluids
S1-P30	R. Nkhahle, <u>T. Nyokong</u>	Graphene quantum dots as fluorescent probes for biomolecules: Exploring their potential as a turn-on sensor for trypsin-EDTA

## Section 2

### BIO-RESOURCES AND BIOTECHNOLOGIES

**ORAL presentations**  
**Thursday, 26<sup>th</sup> October 2017**

*Chairpersons (14:30-15:45): Victor Covaliov, Sanda Velea*

*Chairpersons (16:15-17:00): Florin Oancea, Sanda Velea*

14 <sup>30</sup> -14 <sup>45</sup>	<u>F. Oancea</u> , E. Georgescu, T.-E. Şesan, F. Georgescu, I. Răut, A. Cociu	Strigolactone mimics and bioactivated plant residues integration into conservation agriculture systems
14 <sup>45</sup> -15 <sup>00</sup>	A. I. Anghel, M. V. Hovaneţ, <u>R. Ancuceanu</u> , M. Dinu, C. S. Stoicescu, O. T. Olaru, A. Dune, M. Ciolea, C. V. Popescu	Flavonoids, polyphenols and minerals from <i>Acorus calamus</i> L. (Acoraceae)
15 <sup>00</sup> -15 <sup>15</sup>	<u>S. Gáspár</u> , L. Stănică, M. Gheorghiu	Graphene- and syringaldazine-based electrochemical microsensor for monitoring the extracellular pH of living cells
15 <sup>15</sup> -15 <sup>30</sup>	<u>A. M. Musuc</u> , L. Jecu, M. Doni, V. T. Popa	Processing and characterization of polymer biodegradability
15 <sup>30</sup> -15 <sup>45</sup>	<u>G. Zamfir</u> , N. Stanica, C. Draghici, M. V. Neacsu, M. Sillion, E. Rusu, L. Moisa	Novel 3d metal complexes of thio Schiff bases
15 <sup>45</sup> -16 <sup>15</sup>	<i>Coffee break</i>	
16 <sup>15</sup> -16 <sup>30</sup>	V. Covaliov, <u>O. Covaliova</u> , V. Bobeica, Iu. Morari	Integrated set-up for selective extraction of CO <sub>2</sub> from biogas for microalgae cultivation
16 <sup>30</sup> -16 <sup>45</sup>	C. Opris, S. Ion, V. I. Parvulescu, <u>M. Tudorache</u>	New strategy for valorization of lignin residues based on biocatalytic oxidative polymerization of monolignols
16 <sup>45</sup> -17 <sup>00</sup>	<u>A.-M. Gurban</u> , T. Noguier, K. Y. Goud, M. Badea Doni, J.-L. Marty, C. Bala	Miniaturized bioanalytical systems for sensitive detection of some toxic compounds and their metabolites



## Section 2

### BIO-RESOURCES AND BIOTECHNOLOGIES

#### POSTERS

#### 25<sup>th</sup> - 27<sup>th</sup> October 2017

Short Poster Presentations: Friday, 27<sup>th</sup> October 2017, 11:00 - 13:00

S2-P1	A. I. Anghel, M. Dinu, M. V. Hovanet, <u>R. Ancuceanu</u> , D. M. Morărescu, C. Munteanu, C. S. Stoicescu	Polyphenols, flavones content and toxicity assessment of the variety Perpetu <sup>®</sup> Evereste apple leaves
S2-P2	<u>V. Tamas</u> , M. Neagu, G. Ivopol	Studies on the lipid content of watermelon seeds as secondary product to add economic value to their cosmetic use
S2-P3	<u>A. Oancea</u> , S. Savin, A. Toma, R. Tatia, O. Craciunescu, L. Moldovan	Comparative studies concerning bioactive compounds content in <i>M. charantia</i> L. Leaves and fruits extracts
S2-P4	C. Moisescu, M. Iordan, M. Cîrnu, <u>I. I. Ardelean</u>	Increasing denitrification capacity of microbial populations, to be further used in ras, by selective cultivation
S2-P5	<u>M. L. Arsene</u> , L. Jecu, M. Badea-Doni, I. Răut, M. Călin, G. Vasilescu, D. Constantinescu Aruxandei, A. M.Gurban	Nanostructured reverse micelles: from bioseparation tool to inorganic synthesis template
S2-P6	<u>M. L. Arsene</u> , L. Jecu, M. Badea-Doni, I. Răut, M. Călin, G. Vasilescu, D. Aruxandei Constantinescu, A. M.Gurban	Controllable bio-mimetic medium for biocatalysis performing
S2-P7	<u>C. Georgescu</u> , M. Mironescu, E. Radu	Characterisation of the essential oils of some aromatic plants
S2-P8	<u>C. Chiurciu</u> , V. Chiurciu, E. Lupu, I. Ionescu, F. Mitroi, D. Ciobanu, L. Diaconu, G. Oltean, I. Nicolae	Greenvet- antiviral effect of certain plant derivatives and products containing such derivatives
S2-P9	<u>A. Cozea</u> , V. Tamas, S. Manea, M. Neagu	New phyto-opo-therapeutic product with optimum content in digestive enzymes
S2-P10	<u>G. Oltean</u> , I. Nicolae, C. Chiurciu, V. Chiurciu, E. Lupu, B. Frunzareanu, S. Stanculescu, I. Calin, L. Diaconu, C. Uluitu, V. Filip, G. Mustatea, S. Gusita, A. Nica, P. Chitonu	The effect of the oligolac animal premix on the morfo-physiological performances of broilers and laying hens
S2-P11	A.-M. Gurban, P. Epure, D. Constantinescu-Aruxandei, F. Oancea, M.-L. Jecu, M.-L. Arsene, <u>M. Badea Doni</u>	Monitorization of Aflatoxin M <sub>1</sub> in milk using an off-line immunoassay system
S2-P12	K. Y. Goud, M. Badea Doni, J. L. Marty, <u>A.-M. Gurban</u>	Development of an aptamer-based fluorescence assay for detection of Aflatoxin B <sub>1</sub>
S2-P13	I. Moraru, E. Utoiu, V. S. Manoiu, L. Ionita, <u>A. Oancea</u> , F. Oancea	Ultrastructural and morphological changes during kombucha pollen fermentation
S2-P14	E. Utoiu, A. Toma, <u>A. Oancea</u> , A. Gaspar-Pintiliescu, F. Oancea	Determination of metabolic prebiotics from kombucha fermented bee pollen products

S2-P15	C. E. Gîrd, <u>T. Costea</u> , L. E. Duțu, I. Nencu, M. L. Popescu, O. T. Olaru	Chemical composition, cytotoxic effects of indigenous herbal products dry extracts with potential antitumor activity
S2-P16	M. Dinu, C. Popescu, <u>O. T. Olaru</u> , A. Dune, N. Băbeanu, O. Popa, G. M. Nițulescu, R. V. Ancuceanu	Evaluation of polyphenol content and toxicity of <i>Morus alba</i> fractionated plant extracts
S2-P17	B. Ș. Velescu, O. T. Olaru, A. Orțan, N. Băbeanu, O. Popa, G. M. Nițulescu, <u>C. E. Dinu-Pîrvu</u>	Study of the anti-inflammatory properties of anthriscus sylvestris extracts
S2-P18	<u>G. M. Nițulescu</u> , G. Iancu, G. Nițulescu, R. C. Iancu, O. T. Olaru, D. Vasile	Structural analysis of janus kinases inhibitors targeting triple negative breast cancer
S2-P19	G. Nițulescu, A. Ungurianu, <u>G. M. Nițulescu</u> , I. M. Nicorescu, O. T. Olaru, D. Margină	Screening natural scaffolds as antivirulence agents
S2-P20	<u>I. Nencu</u> , C. E. Gîrd, L. E. Duțu, T. Costea, M. L. Popescu	Pharmacognostical research concerning <i>Lophantus anisatus</i> leaves, flower and whole aerial parts
S2-P21	<u>T. Costea</u> , C. E. Gîrd, L. E. Duțu, I. Nencu, M. L. Popescu	Chemical composition and antioxidant activity of indigenous <i>Trametes biformis</i> (Fr.) Pilat
S2-P22	<u>O. T. Olaru</u> , M. van de Venter, G. Nițulescu, L. Spies, O. C. Seremet, T. Koekemoer, C. M. Gutu, B. Swanepoel, G. M. Nițulescu	Antitumor and toxicological research on extracts from <i>Corydalis</i> species
S2-P23	<u>M. Popescu</u> , M. Desliu-Avram, E. Radu, L. Capra, R. Somoghi, F. Oancea	Complete valorization of mustard oilseeds by using bioassisted Soxhlet azeotropic extraction
S2-P24	D. Pasarin, <u>C. Rovinaru</u>	The influence of various parameters on the formation of probiotic microcapsules
S2-P25	C. Rovinaru, <u>D. Pasarin</u> , L. Capra	Accumulation of inorganic zinc salts by carotenogenic yeasts
S2-P26	<u>M. Desliu-Avram</u> , M. Popescu	Ultrasound field extraction intensification and the morphology of <i>Camelina sativa</i> ground seed
S2-P27	M. Ghiurea, <u>M. Desliu-Avram</u> , V. A. Faraon, Ș. O. Dima, C. Neamțu, V. Zamfiropol-Cristea, <u>F. Oancea</u>	The development of Micro-Tom tomatoes after administration of a foliar biostimulant
S2-P28	<u>A. M. Galan</u> , S. Velea, E. Radu, A. C. Vintila, A. R. Trifoi, A. Crucean, O. Blajan	Enzymatic synthesis of the ethyl esters of fatty acids from used cooking oil
S2-P29	D. S. Vărășteanu, <u>I. E. Chican</u>	Liposoluble vitamin emulsions for transdermal application
S2-P30	<u>N. Radu</u> , A. A. Chirvase, N. Babeanu, O. Popa, F. Hastaran, B. Velykiene	Modern learning tools for entrepreneurs who start business in the field of life sciences
S2-P31	<u>N. Radu</u> , A. A. Chirvase, N. Babeanu, O. Popa, F. Hastaran, B. Velykiene	Competencies needed to start and to develop innovative sme's in the life sciences field

S2-P32	<u>V. Carabela</u> , N. Bordei, S. Manea, G. Alexandru, V. Tamas	New phytocosmetic products for the mantaining and improvement of elasticity and of cutaneous tissue
S2-P33	<u>E. Berteanu</u> , M. Paraschiv, C. Manole, A.-L. Zuav, L. Tcacenco	Plant extracts with therapeutic value, existing in the Danube - Danube Delta basin
S2-P34	D. Constantinescu-Aruxandei, M. Călin, I. Răut, G. Vasilescu, M. Badea-Doni, M.-L. Arsene, A.-M. Gurban, <u>L. Jecu</u> , <u>F. Oancea</u> , V. Lazăr	Common pathway to unpack the bundle – integrative hypothesis in keratin and polysaccharides biodegradation
S2-P35	I. Răut, <u>F. Oancea</u> , E. Georgescu, M. Călin, D. Constantinescu-Aruxandei, G. Vasilescu, M. Badea Doni, M. L. Arsene, A. M. Gurban, <u>L. Jecu</u>	Inhibitory activity of new synthetic strigolactones on important phytopathogenic fungi
S2-P36	M. Călin, D. Constantinescu-Aruxandei, E. Alexandrescu, I. Răut, V. Purcar, M. Badea Doni, M. L. Arsene, G. Vasilescu, <u>L. Jecu</u> , V. Lazăr	Evaluation of horse hair degradation by keratinolytic fungi
S2-P37	M. Călin, D. Constantinescu-Aruxandei, I. Răut, E. Alexandrescu, V. Purcăr, G. Vasilescu, <u>L. Jecu</u> , M. Badea-Doni, M.-L. Arsene, A.-M. Gurban, F. Oancea, O.-N. Corneli, V. Lazăr	Qualitative and quantitative evaluation of fungal wool fibers digestion
S2-P38	F. Sirbu, A. Stefaniu, C. Badiceanu, D. Dragoescu, C. S. Stoicescu, <u>C. A. Marinescu</u> , I. Gheorghe, L. Pintilie	Structural and thermophysical investigations for N-(P-Iodophenyl)-N'-(2-Thenoyl)-Thiourea in (C <sub>2</sub> H <sub>5</sub> OH+H <sub>2</sub> O) solvent
S2-P39	A. D. Neacsu, A. Sofronia, C. Badiceanu, <u>C. A. Marinescu</u> , C. S. Stoicescu	Comparative characterization of the pure thiourea derivatives to their inclusion compounds with HPβCD
S2-P40	S. Rodino, <u>A. Butu</u> , M. Butu	Plant based extracts as bioresources for biological active compounds
S2-P41	<u>C. V. Popa</u> , S.-C. Litescu, A.-F. Danet, G. Badea, L. Lungu	Antioxidant capacity assay of some extracts from byproduct obtained by cold-pressing of milk thistle seeds
S2-P42	<u>S. M. Doncea</u> , I. Ciobanu, I. I. Minca, M. Manolache	Ftir method for characterization of humic and fulvic acids in matrix of biofertilizers for plants
S2-P43	<u>R. Stoica</u> , I. Minca, S.-M. Doncea, L. Capra, R. Senin, M. Mateescu, G. Ivan, I. Ciobanu, F. Bacalum, M. Manolache, F. Oancea	Spectroscopic and thermal characterization methods of biostimulants based on sodium humate
S2-P44	<u>N. Chira</u> , A. Hanganu, C. Stavarache, A. Oancea, R. Komartin	Synthesis and characterization of a hydroxyethyl fatty amide monomer from soybean oil
S2-P45	M. Mateescu, I. Ciobanu, <u>I. I. Minca</u> , F. Bacalum, M. Manolache	Develop of a spectrophotometric method for the determination of proline from biostimulators for plants
S2-P46	<u>M. Mateescu</u> , L. Capra, G. Ivan, R. Stoica, M. Deaconu	Determination of the bioavailable silicone from biostimulants for plants. Matrix study

S2-P47	<u>C. Tomulescu</u> , M. Moscovici, M. Vladu, M. Petrescu, R. Stoica, A. Vamanu	Screening of some newly-isolated bacterial strains producing lipolytic enzymes
S2-P48	<u>A. D. Dima</u> , C. M. Luntraru, V. Tamas	Enhancing the antioxidant activity of honey by direct maceration of certain medicinal plants
S2-P49	B. Miu, I. I. Karpathakis, C. Moga, <u>N. Craciun</u> , A. Ionascu, G. Stoian	AMS-Carrier- <i>Chlorella</i> biofilm is useful in aquaculture wastewater management
S2-P50	V. Zamfiropol-Cristea, T.-E. Şesan, I. Răut, A. Cociu, <u>F. Oancea</u>	Techno-economic analysis of <i>Trichoderma</i> bioproduct manufacturing and use

**Section 3**  
**ENVIRONMENTAL ENGINEERING AND**  
**CULTURAL HERITAGE PROTECTION**

**ORAL presentations**  
**Thursday, 26<sup>th</sup> October 2017**

*Chairpersons: Dan-Florin Anghel, Mihai Cosmin Corobea*

14 <sup>30</sup> -14 <sup>45</sup>	<u>M. Ciobanu</u> , G. Petcu, D. Negoescu, S. Somacescu, M. Mureseanu, V. Parvulescu	Photocatalytic degradation of organic compounds from water on Ti-mesoporous silica materials modified with Ce
14 <sup>45</sup> -15 <sup>00</sup>	<u>V. Fruth</u> , I. Atkinson, J. Pandele-Cusu, A. Rusu, S. Petrescu, I. Raut, M. Arsene, M. Doni, L. Jecu, I. Barcan, A. Badanoiu	Bacterial calcium carbonate precipitation as an alternative of self healing method of cementitious materials
15 <sup>00</sup> -15 <sup>15</sup>	<u>Virgil Badescu</u>	Contributions to the interpretation of mass spectra of methoxy-ethoxy transesters of TEOS. Linked scans and accurate mass
15 <sup>15</sup> -16 <sup>00</sup>	<i>Coffee break</i>	

**Section 3**  
**ENVIRONMENTAL ENGINEERING AND**  
**CULTURAL HERITAGE PROTECTION**

**POSTERS**  
**25<sup>th</sup> - 27<sup>th</sup> October 2017**

Short Poster Presentations: Friday, 27<sup>th</sup> October 2017, 11:00 - 13:00

S3-P1	<u>M. Hetvary</u> , D. Vâju, E. Matei, D.M. Ignat, A. Predescu	Industrial wastewater treatment with magnetic nano-structured materials
S3-P2	<u>S.C. Ulinici</u> , G. Vlad, R. C. Fierascu, E. Grosu, S.M. Avramescu	Water treatment using catalytic ozonation in recirculated continuous flow-functional model
S3-P3	<u>G.M. Fierăscu</u> , R. Porumb, M. Deaconu	Characteristics and influences of SF <sub>6</sub> gas on the environment and climate-friendly alternative to SF <sub>6</sub>
S3-P4	<u>R. C. Fierascu</u> , I. Fierascu, R. Somoghi, B. Trica, G. Vasilievici, C. A. Nicolae, A. Moanta, A. Ortan, L.M. Ditu	Innovative apatitic materials with enhanced antimicrobial activity for building materials and cultural heritage conservation
S3-P5	<u>I. Fierascu</u> , R. C. Fierascu, B. Trica, R. Somoghi, C. A. Nicolae, S.O. Dima, E. Radu, S.M. Avramescu, A.E. Olaru, A. Nica, N. Stanica	Innovative ferrite/beta-cyclodextrin core-shell nanocomposites for removal of pollutants from aqueous effluents
S3-P6	<u>S. Caprarescu</u> , V. Purcar, V. Raditoiu, M. (Neagu) Pascu	Corrosion protection of aluminium in sulphuric acid using natural plant extract
S3-P7	<u>G. Moise</u> , A. Chirea, V. Predica, L. Mara, D. Mihaiescu, M. Ghita, V. Dragut	Experimental research for iron recovery from industrial wastes and mine waters
S3-P8	<u>D.C. Mihaiescu</u> , L. Mara, G.-A. Moise, A. Chirea (Gradinaru), E. Neagu, V. Badilita, D. Valentin <sup>1</sup> , G. Mihai, S. Florentin	Eco-efficient and sustainable revitalization of land contaminated with heavy metals. Characterization of natural zeolites before and after the sorption process of Cu and Pb.
S3-P9	<u>E. Radu</u> , R. Stoica, M. Manolache, L. Capra, G.Ivan	Fast confirmation of quaternary ammonium chloride compounds (QACs) in disinfectants

S3-P10	<u>M. Duldner</u> , E. Bartha, S. Capitanu, B. Cursaru, S. Nica, S. Garea, M. Pandeale, A. Sarbu, S. Apostol, T. Sandu	Study on using various organocatalysts to obtain polyols for polyurethane foams from waste and renewable materials
S3-P11	<u>M. Rapa</u> , B. Spurcaci, P. Ghioca, L. Iancu, R. Grigorescu, C. Nicolae, R. Gabor, I. Bujanca, E. Grosu, E. Matei	Polymer composites based on recycled polypropylene reinforced with glass balls
S3-P12	L.Mocanu, <u>M.Gonta</u>	Coagulation-flocculation process of direct red 81 dye and diethylene glycol fixing agent

**Section 4**  
**PETROCHEMISTRY, BIOREFINING AND**  
**CHEMICAL ENGINEERING**

**ORAL presentations**  
**Thursday, 26<sup>th</sup> October 2017**

*Chairpersons: Dorin Bombos, Emil Stepan*

16 <sup>15</sup> -16 <sup>30</sup>	S. Velea, M. Bombos, G. Vasilievici, <u>R. Doukeh</u> , A. Radu, M. Mihalache, D. Bombos	Hydroconversion of furan acetals on Pt-Pd catalyst
16 <sup>30</sup> -16 <sup>45</sup>	<u>A. Vintilă</u> , A.-M. Gălan, S. Velea, E. Radu, I. Banu, G. Bozga	Bitumen fluxants obtained by glycerol valorization



## Section 4

### PETROCHEMISTRY, BIOREFINING AND CHEMICAL ENGINEERING

#### POSTERS

25<sup>th</sup> - 27<sup>th</sup> October 2017

Short Poster Presentations: Friday, 27<sup>th</sup> October 2017, 11:00 - 13:00

S4-P1	<u>L.Pintilie</u> , C. Negut, A. Stefaniu, C. Tanase, M.T. Caproiu	Design, synthesis and molecular docking studies of a sartan compound
S4-P2	<u>L.Pintilie</u> , A. Stefaniu, A.I. Nicu, C. Negut, C. Tanase, M.T. Caproiu	Oxazolidinone compounds: design, synthesis, molecular docking and antibacterial screening
S4-P3	<u>A.Trifoi</u> , D.Delia, R. Doukeh, T. Gherman, M. Râpă, F.Petru, M. Verziu	Synthesis of glycerol formal catalized by tungstophosphoric acid supported on mesoporous silica
S4-P4	<u>G.R. Sandu</u> , I. Niță, E. Stepan, S. Osman, I. Olga	Effects of isopropanol addition on biodiesel properties
S4-P5	<u>M. Rapa</u> , M. Stefan, L. Barbu-Tudoran, E. Grosu, A. Turcanu, A. Andras, A. Trifoi, T. Gherman, G. Gavril	Posibilities on development of bio-packaging from medicinal plants with sustainability in the agro-food sector
S4-P6	<u>V. Georgescu</u> , G. Vasilievici, D. Bombos	Complete oxidation of harmful organic compounds over alumina supported Cu-Cr mixed oxide catalyst
S4-P7	<u>E. Stepan</u> , S. Velea, C.-E Enascuta, E. Radu, E.-E. Oprescu, A. Radu, G. Vasilievici, D.-G. Epure	Compositions based on microencapsulated essential oils and biostimulants
S4-P8	S. Velea, <u>G. Vasilievici</u> , A.-M. Galan, E. Radu, M. Bombos, C. Enascuta	Synthesis of alkyl lactates by acid catalysis and enzymatic catalysis
S4-P9	<u>C.-E. Enascuta</u> , E.-E. Oprescu, E. Radu, E. Stepan, S. Velea, D.-G. Epure, V. Lavric	Amino acids based products from hydrolysates for rapeseed treatment yield and selectivity increase pathway
S4-P10	<u>S. Velea</u> , M. Bombos, E.-E. Oprescu, R. Doukeh, G. Vasilievici, D. Bombos	Ecological component for gasoline based on furfural derivates
S4-P11	<u>E.-E. Oprescu</u> , S. Velea, C. Enascuta, A. Radu, M. Bombos, G. Vasilievici, D. Bombos	Catalytic conversion of biomass-derived oxygenated compound (furfural) into fuel additive
S4-P12	S.O. Dima, S.M. Doncea, M. Ghiurea, R.C. Fierascu, G. Vasilievici, <u>F. Oancea</u>	Non-catalytic hydrothermal conversion of residual lignocellulosic biomass

## Section 5 STUDENTS SECTION

**Oral presentations**  
Friday, 27<sup>th</sup> October 2017

*Chairpersons: Mihaela Doni, Verona Iordache*

$10^{15}$ - $10^{30}$	I.G. David, <u>M. Corbu</u> , V. David, M.C. Cheregi	Study of obidoxime acido-base and redox reactions
$10^{30}$ - $10^{45}$	<u>B. Trica</u> , C. Delattre, A. Ursu, P. Michaud, G. Djelveh, T. Dobre	Optimization of pigment extraction from a brown algae in the Black Sea (cystoseira barbata)
$10^{45}$ - $11^{00}$	<u>C. Scamoroscenco</u> , L.O. Cinteza, C. Chifriuc, M. Bucur, C.L. Nistor, C. Petcu	Novel emulsion based- cosmetic formulations using natural ingredients

**Section 5**  
**STUDENTS SECTION**

**POSTERS**  
**25<sup>th</sup> - 27<sup>th</sup> October 2017**

Short Poster Presentations: Friday, 27<sup>th</sup> October 2017, 11:00 - 13:00

SP-01	N. O. Butoi, <u>C. Mateescu</u> , A.M. Luchian, A. Voina	Assessing the electropermeabilization of micro-algae cells membrane by exposure in electric fields
SP-02	S. Ion, <u>M. Sandulescu</u> , V. Parvulescu	Biochemical hydrolysis of $\alpha$ -pinene oxide using limonene-1,2-epoxide hydrolase enzyme
SP-03	<u>L. I. Jinga</u> , D. Bala, O. Cintează, C. Mihailciuc	Modified carbon paste electrodes with different nanoparticles for voltammetric detection of fisetin
SP-04	<u>A. M. Luchian</u> , T. Zaharescu, M. E. Lungulescu, N. Butoi	The differential stabilization effects of some natural antioxidants on $\gamma$ irradiated/UV-exposed EPDM
SP-05	<u>M. N. Radhi</u> , F. Constantinescu, I. Roşca, H. B. Farhood, H. Abd-Al Adheem, G. Stoian	Biochemical and microbiological study concerning identification role of hydrolase activities enzymes (Chitinase, Lipase and Protease) from <i>Trichoderma harzianum</i> and <i>Trichoderma koningii</i> in pathogenic fungus <i>F. Oxysporum</i> inhibition
SP-06	C.L. Nistor, <u>S.G. Nitu</u> , R. Ianchis, C. Petcu, E. Alexandrescu, I.C. Gifu, C.M. Ninciuleanu, R. Somoghi, B. Trica	Hybrid silica particles with enhanced antimicrobial activity
SP-07	<u>E. Perdum</u> , I. Dumitrescu, E. Visileanu, C. E. Mitran, O. G. Iordache, R. Radulescu	Rapid extraction and detection of forbidden carcinogenic amines from textile materials
SP-08	A. Dahham, <u>C. V. Popa</u> , L. L. Ruta, I.C. Farcasanu	Determination of chitin in the cell wall of <i>saccharomyces cerevisiae</i> by fluorescence spectroscopy
SP-09	<u>M.G. Soare</u> , M. Moscovici, I. Lupescu, O. Popa, N. Babeanu	Preliminary studies for obtaining biosurfactants from microorganisms isolated from nature
SP-10	L. Matei, <u>V.N. Stoica</u> , A. Tatibouët, P. Ioniță, C. Limban, C. Bleotu, I. Zarafu	New hydrazide derivatives with anti-tumour activity
SP-11	<u>A. M. Titoiu</u> , R. Munteanu, P. Epure, R. Porumb, E. Brinduse, S. Gáspár, A. Vasilescu	Flow injection system integrating a glucose biosensor for monitoring the alcoholic fermentation of wines

SP-12	<u>M. Tudor</u> , A. Hanganu, A. E. Ion, D. Bala, S. Nica	Synthesis and anion binding ability of bishydrazide derivatives of azulene
SP-13	R. Ianchis, T. Munteanu, <u>C. M. Ninciuleanu</u> , I. C. Gifu, E. Alexandrescu, S. Preda, R. Somoghi, B. Trica, C. L. Nistor, S. G. Nitu, C. Petcu	New Salecan/Poly(methacrylic acid)/Cl 93A Hydrogel Nanocomposites. Influence of clay concentration on the physico-chemical properties of the nanocomposite hydrogels
SP-14	R. Ianchis, <u>T. Munteanu</u> , C. M. Ninciuleanu, I. C. Gifu, E. Alexandrescu, S. Preda, R. Somoghi, B. Trica, C. L. Nistor, S. G. Nitu, C. Petcu	New Salecan/Poly(methacrylic acid)/Clay Hydrogel Nanocomposites. Effect of clay type on the physico-chemical properties of the nanocomposite hydrogels

**Events associated**  
with the International Symposium PRIOCHEM-XIII

Wednesday, October 25, 2017

15:00 – 16:00	<b>Roundtable</b>	Bitumen fluxants obtained by the upgrade of the ecological solvents technology existing at SC ICPAO Medias
	<b>Workshop</b>	Thermoplastic nanocomposites with enhanced scratch resistance
	<b>Workshop</b>	Closing the loops in the agri-food sector-innovative (bio)products from side flows of agri-food processing industries (SECVENT project)
16:00-17:00	<b>Workshop</b>	Regional circular economy models and best available technologies for biological streams – BIOREGIO project

Friday, October 27, 2017

9:30 – 11:00	<b>Roundtable</b>	BIOREGIO – Policy and good practices in bio-based circular economy
10:15 – 11:00	<b>Roundtable</b>	Innovation, patenting and technology transfer