



INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE  
PENTRU CHIMIE SI PETROCHIMIE

**ICECHIM**



Simpozionul international  
PRIORITATILE CHIMIEI PENTRU O DEZVOLTARE DURABILA  
**PRIOCHEM**

editia a IX-a, 24 - 25 octombrie 2013  
Bucuresti – ROMANIA



# Program

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**Program**  
 Simpozionul International PRIOCHEM, editia a IX-a  
 24 - 25 octombrie 2013

**Joi 24 octombrie 2013**

8:30	Inregistrarea participantilor			
	<b>Sala festivitati (etajul 1)</b>			<b>Hol central (parter)</b>
9:00	Deschiderea festiva. Cuvântul invitatilor oficiali			
9:30	Conferinte plenare	Prof. dr. ing. Sorin ROSCA	Challenges and opportunities for chemistry in a changing world	<b>Sectiunile 1,2,3</b> <b>Sesiune postere</b>
		Prof.dr. ing. Mircea TEODORESCU	Structuri de hidrogel cu continut de polietilenglicol	
		Ion OPRESCU, ABB France	Evolutia cercetarii si fabricarii de suportii si catalizatori solizi in România	
11:30	Sesiunea sponsorilor	Stephane AIT-OUMEGHAR, Sales &Marketing Director, CORDOUAN Technologies, France	Analizor de nanoparticule	
12:30	Pauza de masa			
	<b>Sala festivitati</b> (etajul 1)	<b>Sala Protocol</b> (etajul 1)	<b>Biblioteca</b> (etajul 2)	<b>Hol central</b> (parter)
14:00	<b>Sectiunea 1</b> <i>Bioresurse si bioproduse</i>	<b>Sectiunea 2</b> <i>Ingineria mediului si protectia patrimoniului cultural</i>	<b>Sectiunea 3</b> <i>Materiale multifunctionale si nanocompozite</i>	<b>Sectiunea 3</b> <b>Sesiune postere</b>

**Vineri 25 octombrie 2013**

	<b>Sala festivitati</b> (etajul 1)	<b>Sala Protocol</b> (etajul 1)	<b>Biblioteca</b> (etajul 2)	<b>Sala Consiliu</b> (etajul 1)	<b>Sala LIFE</b> (etajul 1)	<b>Hol central</b> (parter)	
8:00					<b>Workshop</b> Sistem integrat fotosintetizator de sechestrare a emisiilor industriale de gaze cu efect de sera		
9:00	<b>Masa rotunda</b> <i>Trends in Petrochemistry</i>	<b>Masa rotunda</b> <i>Cercetarea si inovarea in sprijinul cresterii competitivitatii agentilor economici</i>	<b>Sectiunea 4</b> <i>Petrochimie si inginerie chimica</i>			<b>Sectiunea 4</b> <b>Sesiune postere</b>	
10:00					<b>Workshop</b> <i>Ingrasaminte cu eliberare lenta de compusi activi, obtinute prin microincapsulare a in structurile polimerice prietenoase mediului</i>		
11:00					<b>Workshop</b> MEDWASTE		
12:00	Inchiderea festiva - premiarea						

**Sectiunea 1. Bioresurse și bioproduse**  
**Comunicari orale - ora 14:00 - Sala festivitati (etajul 1)**

**Moderatori: Prof. Dr. Liane Raluca STAN**  
**Dr. Biochim. Florin OANCEA**

<b>Nr crt</b>	<b>Nume si prenume autori</b>	<b>Afilierarea autorilor</b>	<b>Titlul lucrarii</b>
<b>- 0 -</b>	<b>- 1 -</b>	<b>- 2 -</b>	<b>- 3 -</b>
1	<b>DANET</b> Andrei Florin <sup>1</sup> , BADEA DONI Mihaela <sup>2</sup> , POPA Valentina <sup>1</sup>	<sup>1</sup> Univ of Bucharest, Faculty of Chemistry <sup>2</sup> ICECHIM, Department of Biotechnology	DETERMINATION OF ANTIOXIDANT CAPACITY OF SOME FRUIT SEEDS EXTRACTS
2	<b>Andreea COZEA</b> , Viorica TAMAS, Mihaela NEAGU, Natalita BORDEI, Georgiana-Oana CRACEA	S.C.HOFIGAL EXPORT IMPORT SA Research and Development Department	UTILIZATION OF INDUSTRIAL BY- PRODUCTS FOR OBTAINING NEW PRODUCTS LIKE DIETARY SUPPLEMENTS WITH NUTRITIONAL AND PHYTOTHERAPEUTICAL PROPERTIES
3	<b>LUNGU</b> Liliana <sup>1</sup> , Andrei ZBUCHEA <sup>2</sup> , Victorita TECUCEANU <sup>1</sup> , Valentina ALEXANDRU <sup>3</sup> , Rodica TATIA <sup>3</sup> , Claudia-Valentina POPA <sup>4*</sup>	<sup>1</sup> Institute of Organic Chemistry C.D. Nenitzescu <sup>2</sup> Faculty of Medicine, University of Medicine and Pharmacy “Carol Davila”, <sup>3</sup> National Institute of Research and Development for Biological Sciences, <sup>4</sup> Faculty of Chemistry, University of Bucharest	PRELIMINARY ANALYSES OF AN OINTMENT WITH INCREASED WOUND HEALING ACTIVITY AND SOME OF ITS NATURAL INGREDIENTS
4	MANEA Stefan, <b>LUNTRARU</b> Vlad Ionut, TAMAS Viorica, LUNTRARU Cristina Mihaela	S.C. Hofigal Export Import S.A., Intrarea Serelor Nr. 2, Sector 4, Bucharesti	THE VARIATION OF ALLICIN CONTENT, ANALISED BY HPLC, IN INDIGENOUS GARLIC LEAVES AND BULBS FOR ITS VALORIFICATION IN NEW PHYTOTHERAPIC PRODUCTS
5	<b>OPRESCU</b> Elena-Emilia <sup>1</sup> , STEPAN Emil <sup>1</sup> , VELEA Sanda <sup>1</sup> , RADU Elena <sup>1</sup> , RADU Adrian <sup>1</sup> , Paul ROSCA <sup>2</sup>	<sup>1</sup> National Research & Development Institute for Chemistry and Petrochemistry ICECHIM <sup>2</sup> Petroleum-Gas University of Ploiesti	EFFECT OF GLYCEROL KETAL ON DIESEL ENGINE EMISSIONS
6	<b>Mariana POPESCU</b> , Natalita BORDEI, Georgeta BULEARCA, Diana GURBAN, Viorica TAMAS	S.C.HOFIGAL EXPORT IMPORT SA	COMPARATIVE STUDY OF CERTAIN MINERAL CONTENT FROM VEGETABLE OILS AND SEEDS OF SOME INDIGENOUS PLANTS
7	Nicolae <b>SDRULA</b> <sup>1,a</sup> , Daniela Simina STEFAN <sup>2,b</sup> , Vasile NIKOLIC <sup>3,c</sup>	<sup>1</sup> - ABR <sup>2</sup> - S.C.IPROCHIM S.A <sup>3</sup> - PFA	THE BIOGAS – AN IMPORTANT CHALLENGE FOR NEAR AND LONG FUTURE IN ROMANIA

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8	F. OANCEA <sup>1</sup> , S. VELEA <sup>1</sup> , C. MINCEA <sup>2</sup> , E.STEPAN <sup>1</sup> , I.MORARU <sup>3</sup> , E. HERA <sup>2</sup> , O.FRANGU <sup>1</sup> , D.L. STÎLPEANU <sup>1</sup> , M.POPESCU <sup>1</sup> , S. PĂSĂREANU <sup>2</sup>	<sup>1</sup> - Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie ICECHIM <sup>2</sup> – Institutul de Cercetare-Dezvoltare pentru Protecția Plantelor <sup>3</sup> - Medica Farmimpex Srl	INNOVATIVE PRODUCTS FOR HONEY BEE TREATMENTS
9	<b>STEPAN Emil</b> <sup>1</sup> , VELEA Sanda <sup>1</sup> , <b>OPRESCU Elena-Emilia</b> <sup>1</sup> , BLĂJAN Olimpiu <sup>2</sup> , ILIE Lucia <sup>1</sup> , VASILIEVICI Gabriel <sup>1</sup> , RADU Adrian <sup>1</sup> , RADU Elena <sup>1</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry ICECHIM <sup>2</sup> Research Institute of Organic Auxiliary Products Medias	COMPLETE EXPLOITATION OF MICROALGAL BIOMASS, TO OBTAIN SYNTHETIC AVIATION FUEL
10	<b>TANASE Constantin</b> <sup>1</sup> , Lucia PINTILIE <sup>1</sup> , Florea COCU <sup>1</sup> , Miron Teodor CAPROIU <sup>2</sup> , Constantin DRAGHICI <sup>2</sup> , Catalina NEGUT <sup>1</sup> .	<sup>1</sup> National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 74373 Bucharest 3, ROMANIA <sup>2</sup> Organic Chemistry Center "C.D.Nenitescu", 202 B Splaiul Independentei, Bucharest 6, ROMANIA	EFFICIENT TRANSFORMATIONS OF $\delta$ -LACTONALCOHOLS INTO $\gamma$ -LACTONALCOHOLS
11	Georgeta <b>ZAMFIR</b> <sup>1</sup> , N. STANICA <sup>2</sup> , A. E. ROGOZEA <sup>2</sup> L. MOISA <sup>3</sup> , M. BADEA <sup>4</sup> .	1. Technical Collegium Mircea cel Batrin, 52 Feroviarilor Street 012207, Bucharest, Romania. 2. Institute of Physical Chemistry of Romanian Academy, 202 Splaiul Independentei, 060021, Bucharest, Romania 3. Districtual Emergency Hospital Bacau, Romania 4. University of Bucharest, Faculty of Chemistry, 23 Dumbrava Rosie Street 020462, Bucharest, Romania.	SYNTHESIS AND CHARACTERISATION OF SAME TRANSITIONAL METAL COMPLEXES
12	S. VELEA, L. ILIE, S. GHIMIȘ, A.M. POPESCU	Institutul Național de Cercetare - Dezvoltare pentru Chimie și Petrochimie - ICECHIM, Spl. Independentei nr. 202, sector 6, Bucuresti	EVALUATION OF ELECTRO-FLOCCULATION FOR HARVESTING OF FRESHWATER MICROALGAE
13	Ana Aurelia CHIRVASE <sup>1</sup> , Nicoleta RADU <sup>1*</sup> , Narcisa BABEANU <sup>2</sup> , Ovidiu POPA <sup>2</sup> , Vaiva KERMELYTE <sup>3</sup> , Fantxoa HASTARAN <sup>4</sup>	<sup>1</sup> I.N.C.D.C.P.ICECHIM Bucharest, Biotechnology Department, 202 Splaiul Independentei Street, postal code 060021, Romania. <sup>2</sup> USAMV Bucharest, Biotechnology Department, 59 B-dul Marasti Street, District 1, postal code 011464, Romania. <sup>3</sup> Kaunas Regional Innovation Centre, Lithuania. <sup>4</sup> AFMR Etcharry, France.	IMPROVED CURRICULA AND MODERN LEARNING SYSTEM TO PROMOTE THE NEW DIRECTIONS OF BUSINESS ENHANCEMENT IN LIFE SCIENCES APPLICATIONS

**Sectiunea 1. Bioresurse și bioproduse**  
**Postere - Hol central parter**

<b>Nr crt</b>	<b>Nume si prenume autori</b>	<b>Afilierea autorilor</b>	<b>Titlul lucrarii</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	<u>Malina AVRAM</u> <sup>1,2)</sup> , Marta STROESCU <sup>2)</sup> , Anicuta STOICA <sup>2)</sup> , Tanase DOBRE <sup>2)</sup> , Camelia ROVINARU <sup>1)</sup> , Diana PASARIN <sup>1)</sup>	<sup>1)</sup> INCDCP-ICECHIM <sup>2)</sup> UPB, Faculty of Applied Chemistry and Materials Science	USE OF FIXED BED PERCOLATION AT OIL SEPARATION FROM GRINDED CANOLA SEED
2	Mihaela <b>BADEA-DONI</b> <sup>1</sup> , Florentina HUTANU <sup>1,2</sup> , Emilia OCNARU <sup>1</sup> , Gelu VASILESCU <sup>1</sup> , Maria MARCU <sup>3</sup> , Luiza JECU <sup>1</sup>	<sup>1</sup> National Institute for R&D in Chemistry and Petrochemistry - ICECHIM , <sup>2</sup> Stefan cel Mare' University of Suceava, Faculty of Food Engineering, Suceava <sup>3</sup> "Ilie Murgulescu" Institute of Physical Chemistry of Romanian Academy	INTERFERENCE – FREE DETERMINATION OF GLUCOSE IN VARIOUS BEVERAGES USING AN IMPROVED PRUSSIAN BLUE BASED BIOSENSOR
3	<u>Dávid BEDŐ</u> , Mihai INCEIU, Olimpiu BLĂJAN, Augustin CRUCEAN	Research Institute for Organic Auxiliary Products Medias	PURIFICATION AND DISCOLORING OF 5- (METHOXYMETHYL)FURAN-2- CARBALDEHYDE USING HIGHLY ACTIVE BLEACHING EARTH
4	<u>V. CARABELA</u> , St.MANEA, V.TAMAȘ, G. ALEXANDRU, N.BORDEI, M. NEAGU.	SC Hofigal Export Import SA	COSMETICS BASED ON PLANT POLYSACCHARIDES
5	<u>Alexandru Ioan CHIVULESCU</u> <sup>1,2</sup> , Mihaela FILIP <sup>2</sup> , Gelu VASILESCU <sup>1</sup> , Luiza JECU <sup>1</sup> , Mihaela BADEA-DONI <sup>1</sup>	<sup>1</sup> National Institute for Research & Development in Chemistry & Petrochemistry – ICECHIM, <sup>2</sup> National Forensics Institute, General Inspectorate of Romanian Police	AUTOMATIC MAGNETIC PURIFICATION, QUANTIFICATION AND AMPLIFICATION OF HUMAN DNA IN FORENSIC CASEWORK SAMPLES
6	CLAPCO Steliana, BIVOL Cezara, DESEATNIC-CILOCI Alexandra, <u>COROPCEANU</u> Eduard*	Institute of Microbiology and Biotechnology of Academy of Sciences of Moldova * Institute of Chemistry of Academy of Sciences of Moldova	THE INFLUENCE OF COORDINATION COMPOUND OF ZINC(II) WITH DIOXIME ON PROTEOLYTIC ACTIVITY OF F. GIBBOSUM CNMN FD 12
7	<u>Georgiana- Oana CRĂCEA</u> , Viorica TAMAS, Andreea COZEA, Mihaela NEAGU	S.C. Hofigal Export Import S.A	COMPARATIVE STUDY OF CERTAIN VEGETABLE ENZYMES GERMS OF CEREAL SEEDS AND MEDICINAL PLANTS

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8	<u>DESEATNIC-CILOCI</u> Alexandra, TIURINA Janetta, CIAPURINA Lulmila*, TURTĂ Constantin*, BIVOL Cezara, CLAPCO Steliana, DVORNINA Elena, LABLIUC Svetlana	Institute of Microbiology and Biotechnology of Academy of Sciences of Moldova * Institute of Chemistry of Academy of Sciences of Moldova	COORDINATION COMPOUNDS OF COPPER WITH AMINO ACIDS AS POTENTIAL STIMULATORS OF MICROMYCETES EXTRACELLULAR HYDROLASES BIOSYNTHESIS
9	<u>M.V. GHICA</u> <sup>1</sup> , M.G. ALBU <sup>2</sup> , L. POPA <sup>1</sup> , C.E. DINU-PÎRVU <sup>1</sup>	<sup>1</sup> Carol Davila University of Medicine and Pharmacy, Faculty of Pharmacy <sup>2</sup> National Institute for Textile and Leather Research and Development, Division Leather and Footwear Research Institute	PHYSICO-CHEMICAL EVALUATION OF SOME COLLAGEN-BASED SPONGES WITH NIFLUMIC ACID
10	<u>GROZESCU Ioan</u> <sup>1,2</sup> <u>SVERA Paula</u> <sup>1,2</sup> ,	<sup>1</sup> INCEMC- National Institute of Research and Development for Electrochemistry and Condensed Matter <sup>2</sup> University "Politehnica" Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Department of Materials Engineering	PEPTIDES WITH POTENTIAL BIOLOGICAL ACTIVITY
11	<u>Memet INAN</u> <sup>1</sup> , Durmuş Alpaslan KAYA <sup>2</sup> , Zina VULUGA <sup>3</sup> , Madalina Georgina ALBU <sup>4</sup>	<sup>1</sup> Adiyaman University, Kahta Vocational School, Adiyaman- Turkey <sup>2</sup> Mustafa Kemal University, Faculty of Agriculture, Department of Field Crops, Turkey <sup>3</sup> INCDP-ICECHIM Bucharest <sup>4</sup> INCDTP - Leather and Footwear Research Institute	THE CHANGE OF CYCLOTRICHUM NIVEUM (BOISS) MANDEN & SCHENG. ESSENTIAL OIL AND ITS COMPONENTS AT THE DIFFERENT GROWTH STAGES
12	<u>Ana Despina</u> <u>IONESCU</u> *, Angela CASARICA, Elena BOCA*, Nicolae GIURGIU***, Adrian VAMANU**, Emanuel VAMANU**, Amalia STEFANIU*, Sultana NITA*, Caterina TOMULESCU *	* National Chemical-Pharmaceutical for Research and Development Institute ** BIOTEHNOL, Research Center for Biochemistry and Biotechnology, *** MINESA S.A. Institute for Mining Research and Design, Cluj- Napoca	CHEMICAL STUDIES ON AREAS AROUND OLD SALT MINES: ECOLOGICAL RECONSTRUCTION AND USES OF SALT WATER SOURCES FOR BALNEAL CURE TOURISM AND RELAXATION
13	<u>Durmus Alpaslan</u> <u>KAYA</u> <sup>1</sup> , Nizami Duran <sup>2</sup> , Filiz Ayanoglu <sup>1</sup> , Gulay Gulbol Duran <sup>3</sup> , Naciye Eryilmaz <sup>2</sup> , Madalina Georgiana Albu <sup>4</sup> , Zina Vuluga <sup>5</sup>	<sup>1</sup> Mustafa Kemal University, Faculty of Agriculture, Antakya-Hatay, Turkey <sup>2</sup> Mustafa Kemal University, Medical Faculty, Department of Microbiology, Hatay-Turkey <sup>3</sup> Mustafa Kemal University, Health College, Medical Biology and Genetics, Hatay-Turkey <sup>4</sup> INCDTP – Leather and Footwear Research Institute <sup>5</sup> INCDP-ICECHIM	IN VITRO ANTIMICROBIAL ACTIVITY OF Thymra spicata L. ESSENTIAL OIL FOR APPLICATIONS IN MEDICAL IMPLANT COATINGS

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14	<b>MANEA</b> Vasilica <sup>1*</sup> , <b>LĂPUGEAN</b> Alexandru <sup>2</sup> , <b>NECULA</b> Mădălina <sup>2</sup> , <b>CĂMPEANU</b> Gheorghe <sup>3,4</sup> , <b>CĂȘĂRICĂ</b> Angela <sup>3</sup> , <b>GHIORGHITĂ</b> Alexandra <sup>1,3,4</sup> , <b>STOIAN</b> Gheorghe <sup>2</sup>	<sup>1</sup> National Institute for Chemical - Pharmaceutical Research and Development - ICCF Bucharest, Microbial Biotechnology Department <sup>2</sup> Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest <sup>3</sup> Applied Biochemistry and Biotechnology Center BIOTECHNOL <sup>4</sup> Faculty of Horticulture, Univ. of Agronomic Science and Veterinary Medicine Bucharest	THE USE OF AMMONIUM PERSULFATE AS OXIDANT IN DELIGNIFICATION PROCESSES
15	<b>NEGUȚ</b> Cătălina <sup>1,2</sup> , Eleonora-Mihaela UNGUREANU <sup>1</sup> , Florea COCU <sup>2</sup> , Constantin TĂNASE <sup>2</sup> , Lucia PINTILIE <sup>2</sup> , Miron Teodor CĂPROIU <sup>3</sup> , Constantin DRĂGHICI <sup>3</sup>	<sup>1</sup> University Politehnica of Bucharest Faculty of Applied Chemistry and Material Sciences, 1-7 Polizu Str., 011061, Bucharest, Romania <sup>2</sup> National Institute for Chemical – Pharmaceutical Research and Development ICCF, 112 Vitan Av., 031299, Bucharest, Romania <sup>3</sup> Organic Chemistry Center “C.D.Nenițescu”, Splaiul Independentei 202B, 06002, Bucharest, Romania	NEW OLEOYLAMIDE WITH POTENTIAL ANTI-OBESITY ACTIONS
16	<b>Emilia OCNARU</b> <sup>1</sup> , <b>Liliana LUNGU</b> <sup>2</sup> , <b>Vasile DINOIU</b> <sup>2</sup> , <b>Luiza JECU</b> <sup>1</sup> , <b>Mihaela BADEA-DONI</b> <sup>1</sup>	<sup>1</sup> National Institute for R&D in Chemistry and Petrochemistry - ICECHIM <sup>2</sup> Centrul de Chimie Organica “Constantin D. Nenitescu” al Academiei Romane	INFLUENCE OF THE EXTRACTION METHOD ON THE ANTIOXIDANT ACTIVITY OF VARIOUS AROMATIC HERBS EXTRACTS
17	<b>Diana PASARIN</b> , <b>Camelia ROVINARU</b> , <b>Gheorghe RACEANU</b> , <b>Malina AVRAM</b>	The National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM	SENSORY ANALYSIS EVALUATION OF AGLUTENIC FIBRES BEVERAGES
18	<b>POPESCU</b> Mariana, <b>OANCEA</b> Florin	R&D Institute for Chemistry & Petrochemistry – ICECHIM	ESSENTIAL OILS WITH ANTIMYCOTOXIGENIC POTENTIAL
19	<b>Lidia PREDA</b> , <b>Luiza CAPRA</b> , <b>Georgeta IVAN</b> , <b>Diana PASARIN</b> , <b>Camelia ROVINARU</b>	National Research & Development Institute for Chemistry & Petrochemistry - ICECHIM	PHYSICO-CHEMICAL CHARACTERIZATION OF FUNCTIONAL BEVERAGES BASED ON AUTOCHTHONOUS RAW MATERIALS
20	<b>Adrian RADU</b> , <b>Elena RADU</b> , <b>Emil STEPAN</b> , <b>Emilia-Elena OPRESCU</b>	Departamentul Bioresurse ICECHIM	QUALITATIVE ESTIMATION OF ESSENTIAL OILS COMPOSITION OF SOME SPECIES OF PLANTS USED AS GREEN PESTICIDES
21	<b>Elena RADU</b> <sup>1</sup> , <b>Sanda VELEA</b> <sup>1</sup> , <b>Emil STEPAN</b> <sup>1</sup> , <b>Adrian RADU</b> <sup>1</sup> , <b>Emilia-Elena OPRESCU</b> <sup>1</sup>	<sup>1</sup> National Research & Development Institute for Chemistry and Petrochemistry ICECHIM	ZINC AND COPPER METAL-CHELATES OF HYDROLYZED-PROTEIN FROM YEAST

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22	<p><u>Maria-Cristina RADULESCU</u>, Bogdan BUCUR, Madalina-Petruta BUCUR, Gabriel Lucian RADU</p>	<p>Centre of Bioanalysis, National Institute of Research and Development for Biological Sciences</p>	<p>AMPEROMETRIC BIOSENSOR FOR THE DETERMINATION OF ASPARTAME IN SOFT DRINKS</p>
23	<p><u>Iuliana RAUT</u><sup>1,2</sup>, Mariana CALIN<sup>1,2</sup>, Gelu VASILESCU<sup>1</sup>, Mihaela BADEA - DONI<sup>1</sup>, Luiza JECU<sup>1</sup>, Tatiana Eugenia SESAN<sup>2</sup></p>	<p><sup>[1]</sup> INCDCP-ICECHIM, Spl. Independentei 202, Bucharest <sup>[2]</sup> University of Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest</p>	<p>EVALUATION OF ANTAGONISTIC ACTIVITY OF BACILLUS STRAINS AGAINST RHIZOCTONIA SOLANI</p>
24	<p>Camelia <u>ROVINARU</u>, Diana PASARIN, Gheorghe RACEANU, <u>Malina AVRAM</u></p>	<p>The National Institute for Research &amp; Development in Chemistry and Petrochemistry – ICECHIM, Spl. Independentei nr. 202</p>	<p>SENSORY ANALYSIS EVALUATION OF WHEY-FRUIT BEVERAGES</p>



**Sectiunea 2 Ingineria mediului și protejarea patrimoniului cultural**  
**Comunicari orale - ora 14:00 - Sala Protocol**

**Moderatori: Dr. Ing. Sanda VELEA**  
**Prof. Dr. Rodica Mariana ION**

<b>Nr crt</b>	<b>Nume si prenume autori</b>	<b>Afilierea autorilor</b>	<b>Titlul lucrarii</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	<u>C.I. COVALIU</u> <sup>1</sup> , G.PARASCHIV <sup>1</sup> , C. MATEI <sup>2</sup>	<sup>1</sup> University POLITEHNICA” of Bucharest, Faculty of Biotechnical Systems Engineering, Departament of Biotechnical Systems <sup>2</sup> University POLITEHNICA of Bucharest, Faculty of Materials Science and Engineering	Cr (VI) IONS REMOVAL FROM WASTEWATER USING PURE AND PVP/PEG COATED MAGNETITE NANOPARTICLE
2	<b>MIR</b> Mohammad Alavi Nigjeh	Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin, Iran	GREEN and SUSTAINABLE METHOD in RECYCLING OF POLYCARBONATE WASTES USING NANOPARTICLES as the CATALYST SUPPORT
3	<u>DONCEA Sanda Maria</u> <sup>1,2</sup> , Adriana CARSTOIU <sup>2</sup> , Zina VULUGA <sup>1</sup> , Rodica – Mariana ION <sup>1,2</sup> .	<sup>1</sup> National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Bucharest <sup>2</sup> Valahia University, Targoviste	MECHANICAL ASPECTS OF OLD BOOK CONSERVATION WITH NANOPARTICLES SUSPENSION

**Sectiunea 2 Ingineria mediului și protejarea patrimoniului cultural**  
**Postere - Hol central parter**

<b>Nr crt</b>	<b>Nume și prenume autori</b>	<b>Afilierea autorilor</b>	<b>Titlul lucrării</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	<u>Georgeta BALEANU</u> <sup>1</sup> , Victor Alexandru FARAON <sup>1,*</sup>	<sup>1</sup> National Institute for Research&Development in Chemistry and Petrochemistry - ICECHIM	TECHNOLOGIES FOR SECONDARY PRODUCTS' VALORIFICATION OBTAINED FROM NPK FERTILIZERS' PRODUCTION
2	<u>M. CALIN</u> <sup>1</sup> , I. RAUT <sup>1</sup> , G. VASILESCU <sup>1</sup> , M. DONI, M.L. ARSENE <sup>1</sup> , E. GROSU <sup>2</sup> , M. GHIUREA <sup>1</sup> , V. PURCAR <sup>1</sup> , L. JECU <sup>1*</sup>	<sup>1</sup> INCDPC-ICECHIM, Bucharest, Romania <sup>2</sup> SC ICPE Bistrita SA, Bistrita, Romania	ASPERGILLUS SP. AS BIODEGRADING AGENT OF POLYMERIC MATERIALS
3	<u>COVALIU Cristina</u> <sup>1</sup> , G. CHIȘIU <sup>2</sup> , F. ILIE <sup>2</sup>	<sup>1</sup> Department of Biotechnical System, <sup>2</sup> Department of Machine Elements and Tribology, University POLITEHNICA of Bucharest	ECOLOGICAL FORMULATION OF LUBRICANTS CONTAINING TITANIUM DIOXIDE NANOPARTICLES
4	<u>Monica DULDNER</u> <sup>A</sup> , Steluta APOSTOL <sup>A</sup> , Stela IANCU <sup>A</sup> , Andrei SARBU <sup>A</sup> , Teodor SANDU <sup>A</sup> , Anita Laura CIRIPOIU <sup>A</sup> , Emeric BARTHA <sup>B</sup>	<sup>a</sup> INCDPC-ICECHIM <sup>b</sup> Romanian Academy Center of Organic Chemistry "C.D.Nenitescu"	RECYCLED POLYOLS FROM „SPLIT-PHASE” GLYCOLYSIS OF POLYURETHANE INTEGRAL SKIN FOAMS
5	<u>FIERASCU Irina</u> , <u>FIERASCU Radu</u> <u>Claudiu</u> , RADOVICI Constantin, ION Rodica Mariana, SOMOGHI Raluca, DONCEA Sanda Maria, POP Simona Florentina, BUNGHEZ Ioana Raluca	National R&D Institute for Chemistry and Petrochemistry – ICECHIM	SYNTHESIS AND CHARACTERIZATION OF HYDROXYAPATITE AND OTHER CALCIUM- SUBSTITUTED HYDROXYAPATITE COMPOUNDS
6	<u>Maria GHEORGHIȚĂ</u> , Vasile PREDICA, Eleonora MARA, Georgiana MOISE , Andreea GRĂDINARU, Andreea MITU, Eleonora NEAGU, Victoria PURCARU	Național R&D Institute for Non- Ferrous and Rare Metals INCDMNR-IMNR	ADVANCED METHODS OF HEAVY METAL PURIFICATION AND RECOVERY FROM MINE WATERS
7	<u>Stela IANCU</u> <sup>A</sup> , Monica DULDNER <sup>A</sup> , Andrei SARBU <sup>A</sup> , Ana Maria ZAHARIA <sup>A</sup> , Ovidiu DIMA <sup>A</sup> , Ana Mihaela FLOREA <sup>A</sup> , Emeric BARTHA <sup>B</sup>	<sup>a</sup> INCDPC-ICECHIM <sup>b</sup> Romanian Academy Center of Organic Chemistry "C.D.Nenitescu"	INVESTIGATION OF TWO SYNTHETIC ROUTES FOR DEVELOPING BIODEGRADABLE, WATER DISPERSIBLE COPOLYESTERS, STARTING FROM PET WASTES AND RENEWABLE MATERIALS

- 0 -	- 2 -	- 3 -	- 4 -
8	<b>MARA Luminita</b> <sup>1</sup> , <b>SARBU Liliana</b> <sup>2</sup> , <b>BACALUM Fanica</b> <sup>2</sup> , <b>GHITA M</b> <sup>1</sup> <b>Raluca SENIN</b> <sup>2</sup>	<sup>1</sup> The National Institute for Research and Development for non-ferrous and Rare Metals – IMNR, <sup>2</sup> The National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	RESEARCH ON OBTAINING A LOW-COST AND ECO-FRIENDLY AGENT FOR THE REMOVAL OF HYDROCARBONS (HC) FROM CONTAMINATED WASTEWATERS
9	<b>SZOLLOSI - MOȚA Andrei</b> , <b>PRODAN Maria</b> , <b>NĂLBOC Irina</b>	Institutul Național de Securitate Minieră și Protecție Antiexplozivă Petroșani	RESEARCH ON THE ACTION OF METALIC CONTAMINANTS ABOUT MUREȘ RIVER WATER AND ITS TRIBUTARIES, IN HUNEDOARA COUNTY AND THEIR INFLUENCE OF FAUNA
10	<b>TANISLAV Vasile</b> , <b>PETREANU Irina</b> , <b>MARINOIU Adriana</b> , <b>CARCADEA Elena</b> , <b>CAPRIS Catalin</b> , <b>RACEANU Mircea</b>	National Research and Development Institute for Cryogenic and Isotopic Technologies – ICSI Rm. Valcea,	FUEL CELL - NEW SOLUTION FOR CLEAN ENERGY PRODUCTION
11	<b>Ionuț ZAHARIA</b> <sup>1</sup> , <b>Ioana DIACONU</b> <sup>2</sup> , <b>Elena RUSE</b> <sup>2</sup> , <b>Gheorghe NECHIFOR</b> <sup>2</sup>	<sup>1</sup> National Institute for Research and Development in Environmental Protection <sup>2</sup> University Politehnica Bucharest, Faculty of applied Chemistry and Material Science, Department of Analytical Chemistry and Chemical Engineering,	AMINOPHENOL'S TRANSPORT ASPECTS THROUGH BULK LIQUID MEMBRANES

**Sectiunea 3. Materiale multifunctionale si nanocompozite**  
**Comunicari orale - ora 14:00 - Sala de lectura - Biblioteca (etajul 2)**

**Moderatori: Prof. Dr. Mircea TEODORESCU**  
**Dr. Ing. Andrei SARBU**

<b>Nr crt</b>	<b>Nume si prenume autori</b>	<b>Afilierea autorilor</b>	<b>Titlul lucrarii</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	Andra PREDESCU <sup>1</sup> , Ecaterina MATEI <sup>1</sup> , <u>Cristian PREDESCU</u> <sup>1</sup> , Lidia FAVIER <sup>2</sup> , George COMAN <sup>1</sup>	1 University POLITEHNICA of Bucharest, Faculty of Materials Science and Engineering 2 Ecole Nationale Supérieure de Chimie de Rennes, France	STABILITY TESTS FOR MAGNETIC OXIDES NANOSTRUCTURES USED FOR ENVIRONMENTAL APPLICATIONS
2	<u>S. ROBU</u> <sup>1,2</sup> , A. MESHALKIN <sup>2</sup> , M. POPUȘOI <sup>1</sup> , A. PRISACAR <sup>2</sup> , E. ACHIMOVA <sup>2</sup>	<sup>1</sup> State University of Moldova, Chisinau, Moldova <sup>2</sup> Institute of Applied Physics of the Academy of Sciences of Moldova,	SYNTHESIS AND STUDY OF N-VINYL CARBAZOLE COPOLYMERS GRAFTED WITH AZONITRO-DYES TO DEVELOP NEW RECORDING MEDIA
3	<u>S. ROBU</u> , G. DRAGALINA, A. POPUȘOI, I. ANDRIEȘ, N. NASEDCHINA, A. CHIRITZA	Moldova State University, Chisinau	PHOTOSENSITIVE MATERIALS FROM ARBAZOLECONTAINING PHOTOPOLYMERS FOR REGISTRATION OF THE HOLOGRAPHIC INFORMATION
4	<u>Adina Magdalena</u> <u>MUSUC</u> <sup>a</sup> , Luiza JECU <sup>b</sup> , Mihaela BADEA - DONI <sup>b</sup> Vlad Tudor POPA <sup>a</sup>	<sup>a</sup> Romanian Academy "Ilie Murgulescu" Institute of Physical Chemistry <sup>b</sup> National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM	ASSESSING THE BIODEGRADABILITY OF POLYMERIC MATERIALS USING THERMAL ANALYSIS METHODS
5	Edina RUSEN <sup>a</sup> , Alexandra MOCANU <sup>a</sup> , Leona Cristina NISTOR <sup>b</sup> , Adrian DINESCU <sup>c</sup> , Ioan CĂLINESCU <sup>a</sup> , Gabriel MUSTĂȚEA <sup>a,d</sup> , Ștefan Ioan VOICU <sup>e</sup> , Corina ANDRONESCU <sup>a</sup> , Aurel DIACON <sup>a</sup>	<sup>a</sup> University Politehnica of Bucharest, Department of Bioresources and Polymer Science, <sup>b</sup> National Institute of Materials and Physics <sup>c</sup> National Institute for Research and Development in Microtechnologies IMT-Bucharest <sup>d</sup> National Institute of Research and Development for Food Bioresources – IBA Bucharest, <sup>e</sup> University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science,	NEW DESIGN OF ANTIMICROBIAL MEMBRANES BASED ON POLYMERS COLLOIDS/MWCNT HYBRID MATERIALS AND SILVER NANOPARTICLES

- 0 -	- 2 -	- 3 -	- 4 -
6	<u>Árpád Csaba CSOG</u> ; Emeric GAJDOS	SC Medacril SRL Mediaş	TECHNOLOGICAL SOLUTION FOR THE ELIMINATION OF WATER CONTAMINATION IN THE SYNTHESIS OF GRAFTED VINIL-ACRYLIC CO-POLYMERS IN WATER DISPERSION
7	<u>Paul GHIOCA</u> , Lorena IANCU, Ramona Marina GRIGORESCU, Bogdan SPURCACIU, Ioneta-Codrina BUJANCA	The National Research & Development Institute for Chemistry and Petrochemistry ICECHIM	THE EFFECT OF THE NATURE OF ELASTOMER AND PLASTOMER BLOCKS FROM STYRENE-DIENE BLOCK-COPOLYMERS UPON THE MODIFICATION OF RECOVERED POLYPROPYLENE
8	<u>Ioneta Codrina BUJANCA</u> , Mihai Cosmin COROBEA, Zina VULUGA, Denis Mihaela PANAITESCU, Dorel FLOREA, Paul GHIOCA, Bogdan SPURCACIU, Lorena IANCU, Ramona Marina GRIGORESCU, Magdalena LADANIUC	National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM	POLYMER NANONOCOMPOSITE COLLOIDAL CRYSTALS OBTAINED BY SURFACTANT FREE EMULSION POLYMERIZATION
9	<u>Viorel Liviu ALBULESCU</u> <sup>1</sup> , Loti Cornelia OPROIU <sup>1</sup> , Corneliu NEAGU <sup>2</sup>	<sup>1</sup> National research and Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> POLITECHNICA University of Bucharest	MANAGEMENT OF TECHNOLOGICAL INNOVATIVE RESOURCES – A KEY FACTOR FOR INDUSTRIAL REVITALIZATION. MINI-CASE STUDY

**Secțiunea 3. Materiale multifuncționale și nanocompozite**  
**Postere - Hol central parter**

<b>Nr crt</b>	<b>Nume și prenume autori</b>	<b>Afilieră autorilor</b>	<b>Titlul lucrării</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	<b>BUNGHEZ</b> Ioana-Raluca, SOMOGHI Raluca, FIERASCU Radu-Claudiu, FIERASCU Irina, DONCEA Sanda-Maria, ION Rodica-Mariana	INCDCP-ICECHIM	SILVER NANOPARTICLES OBTAINED VIA MULBERRY (MORUS NIGRA) EXTRACT: SYNTHESIS AND ANTIOXIDANT ACTIVITY
2	<u>Anita-Laura CIRIPOIU</u> <sup>1</sup> , Celina DAMIAN <sup>2</sup> , Anamaria ZAHARIA <sup>1</sup> , Andrei SARBU <sup>1</sup> , Victor FRUTH-OPRISAN <sup>3</sup> , Stela IANCU <sup>1</sup> , Monica DULDNER <sup>1</sup> , Ferhat YARDIM <sup>4</sup> , Pierre COLSON <sup>5</sup>	<sup>1</sup> National Research-Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> Polytechnic University, Department of Bioresources and Polymer Science <sup>3</sup> Institute for Physical Chemistry of the Romanian Academy of Sciences “Ilie Murgulescu” <sup>4</sup> Technical University, Chemical Engineering Department, Istanbul <sup>5</sup> Group of Research in Energy and Environment from Materials, University of Liege, Belgium	SYNTHESIS AND CHARACTERIZATION OF A NOVEL POLYMER NANOCOMPOSITE, BY POLYMERIZATION OF VINYL ACETATE IN SYNTHETIC ZEOLITE
3	<u>Mihai Cosmin COROBEA</u> <sup>1</sup> , Zina VULUGA, <sup>1</sup> Denis Mihaela PANAITESCU, <sup>1</sup> Dumitru Mircea VULUGA, <sup>2</sup> Cristian Andi NICOLAE, <sup>1</sup> Angela CĂȘĂRICĂ <sup>3</sup>	<sup>1</sup> ) National R&D Institute for Chemistry and Petrochemistry-ICECHIM, Bucharest, Romania <sup>2</sup> ) Centre for Organic Chemistry “C.D. Nenitescu” of Romanian Academy, Bucharest, Romania <sup>3</sup> ) National R&D Institute for Chemical Pharmaceutical	TOWARDS A NEW CLASS OF ORGANIC COMPOSITES
4	Tanța-Verona IORDACHE, <u>Ștefan-Ovidiu DIMA</u> , Andrei SÂRBU, Dan DONESCU, Steluța APOSTOL	The National Research & Development Institute for Chemistry and Petrochemistry-ICECHIM	ORGANOSILICA IMPRINTED MATERIALS FOR GALLIC ACID SEPARATION
5	Doina <b>DIMONIE</b> , Marius PETRACHE, <u>Ștefan-Ovidiu DIMA</u>	National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	GEL PERMEATION CHROMATOGRAPHY STUDIES ON CHITOSAN-BASED HYDROGELS DESIGNED FOR TISSUE ENGINEERING
6	Doina <b>DIMONIE</b> , - <u>Augusta Raluca GABOR</u> *, Inna TRANDAFIR, Marius PETRACHE, Cristian-Andi NICOLAE	National Institute for Research and Development in Chemistry and Petrochemistry - ICECHIM	STUDY OF DYNAMO-MECHANICAL PROPERTIES OF SOME NEW HYDROGELS DESIGNED FOR TISSUE ENGINEERING

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7	Doina <b>DIMONIE</b> <sup>1</sup> , <u>Marius PETRACHE</u> <sup>1</sup> , Celina DAMIAN <sup>2</sup> , PANDELE Madalina <sup>2</sup> , Maria RAPA <sup>3</sup> , Eugeniu VASILE <sup>4</sup> , DIMONIE Mihai <sup>1</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> University Politehnica of Bucharest, <sup>3</sup> SC ICPAO Medias <sup>4</sup> SC METAV Research and Development SA	INFLUENCE OF FORMULATION ON THERMOFORMING CAPACITY OF NEW BLENDS BASED ON STARCH
8	Doina <b>DIMONIE</b> , <u>Simona-Florentina POP</u> <sup>*</sup> , Marius PETRACHE, Sanda DONCEA, Liliana ANTON	National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM	IDENTIFICATION OF INDIVIDUAL POLYMERS FROM POLYOLEFINIC BLENDS OBTAINED BY MELT PROCESSING TECHNIQUES
9	V. <b>FILIP</b> <sup>1</sup> , A. BULAT <sup>1</sup> , M. CULEA <sup>1</sup> , S. ROBU <sup>1</sup> , V. PRISACARI <sup>2</sup> , I. GUTU <sup>2</sup>	<sup>1</sup> Moldova State University, Chisinau <sup>2</sup> “N. Testemiteanu” State University of Medicine, Chisinau, R. of Moldova	ANTIMYCOTIC MEDICAL COPOLYMERS OF FURACILINE DERIVATES
10	<u>GABOR Augusta Raluca</u> <sup>*</sup> , Paul GHIOCA, Lorena IANCU, Bogdan SPURCACIU, Alina RĂDIȚOIU, Cristian-Andi NICOLAE	ICECHIM Bucharest	PHOTODEGRADABLE ELASTOMERIC TAPES FOR GRAFT PROTECTION
11	<u>GABOR Augusta Raluca</u> , Valentin RĂDIȚOIU, Adriana FRONE, Cristian-Andi NICOLAE <sup>*</sup>	ICECHIM Bucharest	WEATHERABILITY OF ENHANCED PHOTODEGRADABLE POLYSTYRENE
12	<u>GABOR Augusta Raluca</u> <sup>#</sup> , Cristian-Andi NICOLAE, Michaela IORGA, Zina VULUGA, Alina RĂDIȚOIU	ICECHIM Bucharest	CHARACTERIZATION OF POLYSTYRENE- CLAY-PPVK NANOCOMPOSITES BY THERMAL AND FT-IR ANALYSIS
13	<b>GONTA Maria</b> <sup>1</sup> , Stefan ROBU <sup>1</sup> , Viorica RAILEAN <sup>1</sup> , Gheorghe DUCA <sup>1</sup> , Alexandru GONTA <sup>2</sup>	<sup>1</sup> Moldova State University Chisinau, Republic of Moldova <sup>2</sup> Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Republic of Moldova	FORMATION OF PVP-INTERCALATED POLYPHENOL ANTIOXIDANTS
14	<b>GONTA Maria</b> <sup>1</sup> , Stefan ROBU <sup>1</sup> , MEGHEA Aurelia <sup>2</sup> , RAU Ileana <sup>2</sup> , MOCANU Larisa <sup>1</sup> , Alexandru GONTA <sup>3</sup> , Eugenia CEBAN <sup>1</sup>	<sup>1</sup> Moldova State University Chisinau, Republic of Moldova, <sup>2</sup> University Politehnica of Bucharest <sup>3</sup> Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Republic of Moldova,	THE STUDY OF DNA-LINKED ANTHOCYANIN CHROMOPHORES

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15	<u>R.M. GRIGORESCU</u> , P. GHIOCA, L. IANCU, B. SPURCACIU, I. BUJANCA, C. RADOVICI, D.M. PANAITESCU	The National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	THE EFFECT OF GRAPHITE-SEBS COMPOUNDS ON POLYPROPYLENE PROPERTIES
16	Elena <b>GROSU</b> <sup>1</sup> , Anton FICAI <sup>2</sup> , Maria RAPA <sup>1</sup> , Grigore VLAD <sup>1</sup> , Luiza JECU <sup>3</sup> , Petruta STOICA <sup>1</sup>	<sup>[1]</sup> S.C. ICPE BISTRITA S.A <sup>[2]</sup> Universitatea Politehnica Bucuresti <sup>[3]</sup> INCDCP-ICECHIM	TESTING OF ANTIBACTERIAL AND ANTIBIOFILM NANOSTRUCTURED MATERIALS FOR STRATIFIED PROSTHETIC TUBULAR DEVICES
17	<u>Daniel BERKI</u> <sup>2</sup> , Ioan <b>GROZESCU</b> <sup>1,2</sup>	<sup>1</sup> INCEMC- National Institute of Research and Development for Electrochemistry and Condensed Matter <sup>2</sup> University "Politehnica" Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Department of Materials Engineering	LUMINESCENT MATERIAL USED FOR OPTOELECTRONIC APLICATIONS
18	Tatiana <b>GUTU</b>	State University of Moldova Chisinau, Republic of Moldova	SYNTHESIS OF 4-[2,4,6-TRIMETHYLPHENYL]-THIOSEMICARBAZIDE AND ITS DERIVATIVES
19	<b>HOSU Ioana</b> <sup>a</sup> , PETEU Serban <sup>a</sup> , VASILESCU Alina <sup>b</sup>	<sup>a</sup> The National Institute for R&D in Chemistry and Petrochemistry ICECHIM <sup>b</sup> International Centre of Biodynamics	DETECTION OF PEROXYNITRITE WITH CHEMICALLY MODIFIED ELECTRODES BASED ON REDUCED GRAPHENE OXIDE
20	<b>IANCHIS Raluca</b> <sup>1</sup> , <b>GABOR Raluca</b> <sup>1</sup> , ROSCA Iosif Daniel <sup>2</sup> , DONESCU Dan <sup>1</sup> , GHIUREA Marius <sup>1</sup> , NICOLAE Cristian Andi <sup>1</sup> , RADITOIU Valentin <sup>1</sup> , SOMOGHI Raluca <sup>1</sup> , PURCAR Violeta <sup>1</sup> , NISTOR Lavinia Cristina <sup>1</sup> , PETCU Cristian <sup>1</sup> , SPATARU Catalin-Ilie <sup>1</sup>	<sup>1</sup> National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM <sup>2</sup> Concordia University, Mechanical and Industrial Engineering, Montreal, Quebec, Canada	SYNTHESIS AND PROPERTIES OF EPOXY-ORGANOLAYERED SILICATES NANOCOMPOSITES
21	<u>JITARU Raisa</u> , Stefan ROBU, E. VIERU	Institute of Applied Physics of Academy of Sciences of Moldova, Chisinau	Mechanical Properties of polymers based on the 4-aminostirene



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22	<u>Magdalena Adriana LADANIUC</u> , DUMITRACHE Liviu, Raluca GABOR, NICOLAE Cristian, Theodor SANDU, Ioneta BUJANCA, MARIN Laurențiu	National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM	GLYCOLS DERIVATES EMULSIFIERS FOR EPOXY SYSTEMS
23	<u>Adriana MARINOIU</u> <sup>1</sup> , Claudia COBZARU <sup>2</sup> , Constantin TEODORESCU <sup>3</sup> , Daniela MARINESCU <sup>3</sup> , Mircea RACEANU <sup>1</sup> , Ioan IORDACHE <sup>1</sup> , Mihai VARLAM <sup>1</sup>	<sup>1</sup> National R D Institute for Cryogenics and Isotopic Technologies- ICIT Rm Valcea <sup>2</sup> “Gheorghe Asachi” Technical University of Iași, Faculty of Chemical Engineering and Environmental Protection <sup>3</sup> Research Center OLTCHIM SA	CARBON MONOXIDE REMOVAL FROM HYDROGEN FUEL CELL USING HETEROGENEOUS CATALYST
24	Geza NAGY <sup>1#</sup> , Livia NAGY <sup>2#</sup> , Andras KISS <sup>1</sup> , Ioana S. HOSU <sup>3</sup> , Serban F. PETEU <sup>3#</sup>	<sup>1</sup> Department of General & Physical Chemistry, University of Pecs, 7624 Pécs, Hungary; <sup>2</sup> Szentagothai J. Research Center, University of Pecs <sup>3</sup> I.N.C.D. Chimie si Petrochimie	MAPPING OF THE NITRO-OXIDATIVE SPECIES (NOS) BY MICROBIOSENSOR-BASED SCANNING ELECTROCHEMICAL MICROSCOPY (μBS-SECM)
25	<u>NISTOR Cristina Lavinia</u> , SOMOGHI Raluca, PURCAR Violeta, IANCHIS Raluca, PETCU Cristian, SPATARU Catalin-Ilie, GHIUREA Marius, DONESCU Dan	National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM	CHARACTERIZATION OF THE MESOPOROUS LONG-CHAIN-MODIFIED SILICA PARTICLES DOPED WITH OLIVE OIL
26	<u>Loti Cornelia OPROIU</u> *, ALBULESCU Viorel Liviu*, Anca Angela ATHANASIU*, DEACONU Marian	*INCDCP- ICECHIM *INCDCP- ICECHIM	BIO-FUNCTIONAL FABRICS FOR COMPLEX APPLICATIONS
27	<u>PAVALOIU Ramona-Daniela</u> , STOICA Anicuta, STROESCU Marta, DOBRE Tanase	<sup>1</sup> ) Faculty of Applied Chemistry and Material Science, University Politehnica of Bucharest	THE USE OF BACTERIAL CELLULOSE-POLY (ETHYLENE GLYCOL) COMPOSITES IN DRUG DELIVERY APPLICATIONS
28	<u>PANAITESCU Denis Mihaela</u> , Michaela Doina IORGA, Adriana Nicoleta FRONE, Violeta PURCAR, Ioana CHIULAN, Constantin RADOVICI	National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	MORPHOLOGICAL INVESTIGATION OF POLYAMIDE – CELLULOSE NANOCOMPOSITES

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29	Doina DIMONIE <sup>1</sup> , <b>Marius PETRACHE</b> <sup>1</sup> - 1 Celina DAMIAN <sup>2</sup> , PANDELE Madalina <sup>2</sup> , Maria RAPA <sup>3</sup> , Mihai DIMONIE <sup>1</sup> , Liliana ANTON <sup>1</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> University Politehnica of Bucharest <sup>3</sup> SC ICPAO SA, Medias	DEPENDENCE OF THE MELT PROPERTIES OF SOME NEW MULTIFUNCTIONAL BIO- MATERIALS ON COMPOSITION AND MELT PROCESSING CONDITIONS
30	Doina DIMONIE <sup>1</sup> , <b>Marius PETRACHE</b> <sup>1</sup> - 2 Eugeniu VASILE <sup>3</sup> , Roxana TRUSCA <sup>3</sup> , Maria RAPA <sup>2</sup> , Mihai DIMONIE <sup>1</sup> , Liliana ANTON <sup>1</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> SC ICPAO SA, Medias <sup>3</sup> SC METAV Research and Development	INFLUENCE OF THE MIGRATION DEGREE OF THE LIQUID COMPONENTS INTO POLYMERIC MATRIX ON THE PERFORMANCE OF NEW MULTIFUNCTIONAL BIO - MATERIALS
31	Doina DIMONIE <sup>1</sup> , <b>Marius PETRACHE</b> <sup>1</sup> - 3 Eugeniu VASILE <sup>4</sup> , Roxana TRUSCA <sup>4</sup> , Adi GHEBAUR <sup>2</sup> , Madalina PANDELE <sup>2</sup> , Maria RAPA <sup>3</sup> , Mihai DIMONIE <sup>1</sup> , Liliana ANTON <sup>1</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM <sup>2</sup> University Politehnica of Bucharest, Splaiul Independentei <sup>3</sup> SC ICPAO SA, Medias <sup>4</sup> SC METAV Research and Development	INFLUENCE OF FILLER PARTICLE SIZE ON MECHANICAL BEHAVIOR OF SOME NEW MULTIFUNCTIONAL BIO – MATERIALS
32	Mihai DIMONIE, <b>Marius PETRACHE</b> - 4 Doina DIMONIE, Liliana ANTON, Inna TRANDAFIR	National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	MATHEMATICAL MODELING OF TRANSPORT PROPERTIES OF SOME IONOTROPIC ALGINATE HYDROGELS OBTAINED BY CONTROL DIFFUSION METHOD
33	Sanda Maria DONCEA, <b>Marius PETRACHE</b> - 5 Doina DIMONIE	National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM	A FTIR STUDY FOR POLYMERS IDENTIFICATION FROM INCOMPATIBLE BLENDS MELTED PROCESSED AS FILMS
34	<b>PETREANU</b> Irina <sup>1</sup> , Adriana MARINOIU <sup>1</sup> , Daniela EBRASU <sup>1</sup> , Amalia SOARE <sup>1</sup> , Mircea TEODORESCU <sup>2</sup>	National Research and Development Institute for Cryogenic and Isotopic Technologies Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science	SULFONATED POLYPHENYLENE OXIDE - POLYMER ELECTROLYTE MEMBRANE FOR PROTON EXCHANGE MEMBRANE FUEL CELL
35	<b>PURCAR</b> Violeta, <b>IANCHIS</b> Raluca, SPATARU Catalin-Ilie, RADITOIU Valentin, Cristian NICOLAE Andi, Dan DONESCU, Cristian PETCU, SOMOGHI Raluca, NISTOR Cristina Lavinia, GHIUREA Marius	National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM	PREPARATION OF POLYMER-SILICA HYBRID LATEXES AND SOL-GEL-DERIVED FILMS
36	Nicoleta <b>RADU</b> <sup>1</sup> , Aurora SALAGEANU <sup>2</sup> , Ana Aurelia CHIRVASE <sup>3</sup>	<sup>1</sup> I.N.C.D.C.P. ICECHIM <sup>2</sup> I.N.C.D.M.I. CANTACUZINO Bucharest	PROPERTIES OF SOME MULTIFUNCTIONAL BIOMATERIALS DERIVED FROM MICROBIAL BIOTECHNOLOGY

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37	Teodor . <b>SANDU</b> , R. SOMOGHI, A. SÂRBU, A. M. FLOREA	National Research- Development Institute for Chemistry and Petrochemistry- -ICECHIM	STUDY ON THE POLYMER MEMBRANES FUNCTIONALIZATION PARAMETERS
38	Ana-Mihaela <b>FLOREA</b> <sup>1,2</sup> , Andrei SARBU <sup>1</sup> , Stefan-Ovidiu DIMA <sup>1</sup> , Steluta APOSTOL <sup>1</sup> , Teodor <b>SANDU</b> <sup>1</sup> , Gheorghe HUBCA <sup>2</sup>	<sup>1</sup> National Research and Development Institute for Chemistry and Petrochemistry ICECHIM <sup>2</sup> Politehnica University of Bucharest,	STUDIES ON APPROPRIATE ACRYLONITRILE-METHACRYLIC ACID MATRIX FOR MOLECULAR IMPRINTING OF HYPERICIN
39	Maria SONMEZ <sup>a</sup> , Mihai GEORGESCU <sup>a</sup> , Mihaela NITUICA <sup>a</sup> , Laura ALEXANDRESCU <sup>a</sup> , Denisa FICAI <sup>b</sup> , Anton FICAI <sup>b</sup>	<sup>a</sup> National R&D Institute for Textiles and Leather–division: Leather and Footwear Research Institute <sup>b</sup> POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Material Science	SYNTHESIS AND CHARACTERISATION OF COMPOSITE MATERIALS BASED ON POLYPROPYLENE AND GLASS FIBRES
40	Alexandrina NUTA*, Ana – Alexandra <b>SORESCU</b> *, Valentin. RADITOIU*, Viorica AMARIUTEI*	*Research&Development National Institute for Chemistry and Petrochemistry – ICECHIM	STUDY ON THE SYNTHESIS AND PHYSICAL – CHEMICAL CHARACTERIZATION OF SOME 5, 6 - BENZOCOUMARINES
41	<b>SPURCACIU Bogdan</b> *, GHIOCA Paul*, IANCU Lorena*, GRIGORESCU Ramona*, BUJANCA Ioneta*, DRAGUTAN Valerian**, DRAGUTAN Ileana**	* National Institute for Research & Development in Chemistry and Petrochemistry, ICECHIM ** Institute of Organic Chemistry "C.D. Nenitescu" of the Romanian Academy	GRAFTING OF CYCLOOCTENE ON STYRENE-BUTADIENE ELASTOMERS BY RING-OPENING METATHESIS POLYMERIZATION
42	<b>VARASTEANU Dana</b> <sup>1</sup> , Aurelia PISCUREANU <sup>1</sup> , Irina CHICAN <sup>1</sup> , Raluca SOMOGHI <sup>1</sup> , Victor FRUTH <sup>2</sup>	<sup>1</sup> National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM <sup>2</sup> "Ilie Murgulescu" Institute of Physical Chemistry	INFLUENCE OF AMINO ACID-BASED SURFACTANTS ON THE SYNTHESIS OF TiO <sub>2</sub> NANOCRYSTALLINE POWDERS
43	<b>VASILIEVICI Gabriel</b> *, Mihaela BOMBOS*, Raluca GABOR*, Dorin BOMBOS**	<sup>a</sup> ) National Research and Development Institute for Chemistry and Petrochemistry, ICECHIM ntei **) Petroleum - Gas University of Ploiesti	NANOCOMPOSITES WITH APPLICATIONS IN ASPHALT ROAD AREA
44	<b>XUEPING Ji</b> <sup>1</sup> , Ioana S. HOSU <sup>2</sup> , Cui MIN <sup>3</sup> , Zhao HAIYAN <sup>1</sup> , Jujie REN <sup>3,¥</sup> , Serban F. PETEU <sup>2,¥</sup>	<sup>1</sup> Department of Medical Chemistry, Hebei Medical University, 361 Zhongshan East Road, Shijiazhuang, 050017, PRChina <sup>2</sup> INCD Chimie si Petrochimie, ICECHIM <sup>3</sup> Department of Chemistry, School of Science, Hebei University of Science and Technology, PRChina	MULTI-ELECTRODE ARRAY TO MONITOR REACTIVE SPECIES IN HIGH THROUGHPUT FORMAT

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45	<p>Anamaria <b>ZAHARIA</b><sup>1</sup>,  Katja Jankova  ATANASOVA<sup>2</sup>,  Andrei SARBU<sup>1</sup>,  Anita-Laura CIRIPOIU<sup>1</sup>,  Stela IANCU<sup>1</sup>,  Monica DULDNER<sup>1</sup>,  Cornel MUNTEANU<sup>3</sup>,  Victor FRUTH-  OPRISAN<sup>3</sup></p>	<p><sup>1</sup>National Research-Development  Institute for Chemistry and  Petrochemistry - ICECHIM<sup>2</sup>  Technical University of Denmark,  Department of Chemical and  Biochemical Engineering, Danish  Polymer Centre, Lyngby, Denmark  <sup>3</sup> Institute for Physical chemistry of  the Romanian Academy of Sciences  “Ilie Murgulescu</p>	<p>PROVES CONCERNING THE  INTERCALATION OF POLYACRYLAMIDE  INTO KAOLINITE INTERLAYER SPACE BY  CERIUM ION INITIATED POLYMERIZATION</p>

**Secțiunea 4 - Petrochimie și inginerie chimică**  
**Comunicări orale – vineri 25 octombrie ora 9:00 - Sala de protocol (etajul 1)**

**Moderatori: Prof. Dr. Paul ROSCA**  
**Prof. Dr. Grigore BOZGA**

<b>Nr crt</b>	<b>Nume și prenume autori</b>	<b>Afilierea autorilor</b>	<b>Titlul lucrării</b>
- 0 -	- 2 -	- 3 -	- 4 -
1	<b>BANU</b> Ionuț <sup>a</sup> , <b>PUAUX</b> Jean-Pierre <sup>b</sup> , <b>BOZGA</b> Grigore <sup>a</sup>	<sup>a</sup> University Politehnica of Bucharest <sup>b</sup> Universite Claude Bernard-Lyon France	A MODELING STUDY OF POLYLACTIDE SYNTHESIS BY REACTIVE EXTRUSION
2	<b>Danuta GHITA</b> , Dorin Stanica EZEANU, Paul ROSCA	Petroleum-Gas University of Ploiesti	STEAM REFORMING OF ETHANOL ON Pt/Al <sub>2</sub> O <sub>3</sub> CATALYST
3	<b>JAVAJD Ahtesham</b> , BILDEA Costin Sorin	University Politehnica of Bucharest,	SIMULTANEOUS PRODUCTION OF γ-BUTYROLACTONE, FURFURAL ALCOHOL AND 2-METHYL FURAN IN A COUPLED ADIABATIC REACTOR
4	<b>C. MOVILEANU</b> <sup>1</sup> , <b>D. RAZUS</b> <sup>1</sup> , <b>V. GIURCAN</b> <sup>1</sup> <b>V. GOSA</b> <sup>1</sup>	<sup>1</sup> “Ilie Murgulescu” Institute of Physical Chemistry, Bucharest, ROMANIA	<b>EXPLOSION PARAMETERS OF GASEOUS ETHYLENE-AIR MIXTURES IN ELONGATED CYLINDRICAL VESSELS</b>
5	<b>PINTILIE</b> Lucia <sup>1</sup> , Olga DOROBAT <sup>3</sup> , CAPROIU Miron Teodor <sup>2</sup> , Maria MAGANU <sup>2</sup> , TANASE Constantin <sup>1</sup> , NEGUT Catalina <sup>1</sup>	<sup>1</sup> National Institute for Chemical-Pharmaceutical Research and Development <sup>2</sup> Organic Chemistry Center "C.D.Nenitescu <sup>3</sup> National Institute for Infectious Diseases "Prof. Dr. Matei Bals ", 1	NEW ANTIMICROBIAL AGENTS WITH ACTIVITY AGAINST MULTI-DRUG RESISTANT MICROORGANISMS GRAM-POSITIVE
6	<b>Evelina DRAGOMIR</b> Paula <b>POSTELNICESCU</b>	Faculty of Applied Chemistry and Materials Science, University “Politehnica” of Bucharest	KINETIC STUDY ON THE CONTROLLED RELEASE OF ANTIBIOTICS FROM POLYMERIC DOSAGE FORMS
7	<b>Ștefan-Ovidiu DIMA</b> , Andrei SÂRBU, Ana-Mihaela FLOREA, Tanța-Verona IORDACHE, Steluța APOSTOL	The National Institute for Research and Development in Chemistry and Petrochemistry ICECHIM	ADSORPTION ISOTHERMS IN MOLECULARLY IMPRINTED POLYMERS
8	<b>Adina Magdalena MUSUC</b> <sup>a</sup> , Jeanina PANDELE CUSU <sup>a, b</sup> , Dumitru OANCEA <sup>b</sup>	<sup>a</sup> Romanian Academy “Ilie Murgulescu” Institute of Physical Chemistry, <sup>b</sup> Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest	THERMAL STABILITIES OF SOME ALDEHYDE-2,4-DINITROPHENYLHYDRAZONES DERIVATIVES
9	<b>Aurelia PISCUREANU</b> <sup>*</sup> , Dorin BOMBOS <sup>**</sup> , Dana VARASTEANU <sup>*</sup> , Mihaela BOMBOS <sup>*</sup> , Irina CHICAN <sup>*</sup> , Gabriel VASILIEVICI <sup>*</sup>	<sup>*</sup> ) National Research and Development Institute for Chemistry and Petrochemistry, ICECHIM <sup>**</sup> ) Petroleum - Gas University of Ploiesti	TRENDS ADDITIVES FOR MOTOR FUELS

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10	<b>RADULESCU Sinziana</b> , NEGOITA Irena Loredana, ONUTU Ion	University Oil-Gas of Ploiesti, Department of Petroleum Processing and Environmental Engineering Ploiesti	A COMPARATIVE ANALYSIS FOR PERFORMANCES OF DOUBLE AND THREE CONCENTRIC TUBES HEAT EXCHANGERS
11	<b>STEFAN Nicoleta</b> Gabriela <sup>1</sup> , Cristina ENĂSCUTĂ <sup>1,2</sup> , Emil STEPAN <sup>2</sup> , Alexandru TULUC <sup>1</sup> , Valentin PLESU <sup>1</sup> , Jordi Bonet RUIZ <sup>3</sup> , Petrica IANCU <sup>1</sup>	<sup>1</sup> University Politehnica of Bucharest, Centre for Technology Transfer in the Process Industries, <sup>2</sup> National Research and Development Institute for Chemistry and Petrochemistry, Bucharest, Romania <sup>3</sup> University of Barcelona, Department of Chemical, Spain	HIGH VACUUM DISTILLATION FOR $\omega$ -3 FATTY ACIDS ESTERS SEPARATION
12	<b>REZNIKOV Ivan V.</b> , SAVITSKAYA T.A., TSYGANKOVA N.G., NEVAR T.N., GRINSHPAN D.D.	Belarussian State University, Minsk, Belarus Scientific-Research Institute of Physical and Chemical Problems, Minsk, Belarus	LIGNIN-BASED OIL-SORBENT PRODUCT

#### Sectiunea 4 - Petrochimie si inginerie chimica Postere - Hol central parter

Nr crt	Nume si prenume autori	Afilierea autorilor	Titlul lucrarii
- 0 -	- 2 -	- 3 -	- 4 -
1	Sorin ION*, Vasile <b>MATEI</b> *	*Department of Petroleum Processing Engineering and Environmental Science, Faculty of Petroleum Technology and Petrochemistry, "Petroleum-Gas" University Ploiesti	HYDRODESULFURIZATION OF MIDDLE PETROLEUM DISTILLATES
2	Ancuta Roxana <b>TRIFOI</b> , Timea PAP, Augustin CRUCEAN, BLĂJAN Olimpiu	SC ICPAO SA Medias	METHOD TO PRODUCE GLYCEROL FORMAL BY GLYCEROL RECOVERY FROM BIODIESEL PRODUCTION PROCESS