



National Research&Development Institute for
Chemistry&Petrochemistry **ICECHIM**

International symposium

Priorities of Chemistry for a Sustainable Development



editia a XI - a

Bucharest, 29th - 30th October 2015

PROGRAM

Sponsori:





PROGRAM
29 octombrie 2015
SALA FESTIVITATI
ora 09:00

DESCHIDERE FESTIVA. CUVANTUL INVITATILOR OFICIALI.

Constantin ENĂCHIOIU – Director ANCSI
Prof. Dr. Ing. Sorin ROȘCA – Președinte Societatea de Chimie din România

CONFERINTE PLENARE

**SUSTAINABILITY AND RESILIENCE OF BIOECONOMY – AN ANALYSIS OF EU COUNTRIES
OFFICIAL STRATEGIES**

Delia Dimitriu¹, Florin Oancea²

The Manchester Metropolitan University, Environmental Research Centre Chester Street, Manchester, M1 5GD
Institutul Național de Cercetare-Dezvoltare pentru Chimie și Petrochimie –ICECHIM,
Spl. Independentei nr. 202, Bucharest, sect.6.

MICROALGAE- THE GREEN GOLD FOR BIOECONOMY

Sanda VELEA

Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie ICECHIM

WHY MODELLING IN CHEMICAL ENGINEERING?

DobreTanase

Politehnica University of Bucharest

10:45 – 11:15 - PAUZA DE CAFEA

CONFERINTE PLENARE

LEWIS ACID-BASE CATALYSTS FOR THE SYNTHESIS OF FINE CHEMICALS

Vasile I. Parvulescu

University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, Bdul Regina Elisabeta 4-12,
030016, Bucharest, Romania; tel/fax: +40214100241, vasile.parvulescu@chimie.unibuc.ro

ELECTROCHEMICAL TRANSDUCERS BASED ON GRAPHENE MATERIALS

Pablo Fanjul

Dropsens - Spania

LANSARE CARTI

Alexandru Woinaroschy¹, Anca Daniela Raiciu²

¹Universitatea Politehnica Bucuresti, ²Sc. Hofigal Sa.

PREZENTARE PRODUSE

Catalin Mirica

OF Systems

13:00 – 14:00 LUNCH OFERIT DE CATRE ORGANIZATORI



29 octombrie 2015

Secțiunea 1 – Bioresurse și Biomateriale

COMUNICARI ORALE - ora 14:00 - Sala festivitatii (etajul 1)

Moderatori:

Prof. Univ. Petruta CORNEA

Dr. Biochim. Florin OANCEA

S1 - O - 1

VEDISAN –a new natural product for eye health and vision improve

MANEA Stefan, TAMAS Viorica, NEAGU Mihaela

S.C. HOFIGAL EXPORT IMPORT S.A., Intrarea Serelor no.2, sector 4, Bucharest, Romania

S1 - O - 2

VARIATION OF POLYPHENOL CONTENTS IN VEGETATIVE ORGANS OF TAGETES ERECTA L.

Robert ANCUCEANU¹, Marilena Viorica HOVANEȚ¹, Adriana Iuliana ANGHEL¹, Octavian Tudorel

OLARU¹, Carmen POPESCU², Mihaela DINU¹

¹*Department of Pharmaceutical Botany and Cell Biology, Faculty of Pharmacy, University of Medicine and Pharmacy, "Carol Davila", 6 Traian Vuia street, Bucharest, Romania*

²*„Vasile Goldiș” Western University of Arad; S. C. Hofigal Export-Import S.A.*

S1 - O - 3

ANTIBACTERIAL EFFECT OF ESSENTIAL OILS AGAINST MICROORGANISMS ISOLATED FROM MASTITIS OF PRODUCTIVE RUMINANTS

TEODOR Andreea¹, STOICA Costin¹, IACOB Ion¹, ȘTEFAN Petre¹, TUDORAN Cătălin¹, CHIURCIU Viorica¹, CHIURCIU Constantin¹, COROBEA Mihai Cosmin², VULUGA Zina², ALBU Mădălina³, IORGA Michaela² and NICOLAE Ion¹

1) Romvac Company S.A., Șoseaua Centurii nr. 7, Voluntari, județul Ilfov; 2) Institutul Național de Cercetare - Dezvoltare pentru Chimie și Petrochimie, Splaiul Independenței, nr. 202, sector 6, București; 3) Institutul Național de Cercetare-Dezvoltare pentru Textile și Pielărie, strada Lucrețiu Pătrășcanu, nr. 16, sector 3, București

S1 - O - 4

FUNCTIONALISED MESOPOROUS SBA-15 SILICA AS SUPPORT FOR IMMOBILISATION OF BIOLOGIC COMPOUNDS

Madalina Ciobanu¹, Mihaela Filip¹, Elena Neagu², Gabriela Paun², Viorica Parvulescu¹

¹*Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", Spl. Independentei 202, 060021 Bucharest, Romania*

²*National Institute for Research-Development of Biological Sciences – Centre of Bioanalysis, 296 Spl.Independentei, PO Box 17-16, 060031, Bucharest 6, Romania*

S1 - O - 5

PHYTHOTHERAPY AND GEMMOTHERAPY USED IN DIFFERENT TYPE OF AGES (FEEDING DISORDERS)

Anca-Daniela RAICIU

S.C. Hofigal Export-Import S.A., Intrarea Serelor Street, no.2, district 4, cod.042124, Bucharest, Romania

S1 - O - 6

EFFICIENT CONVERSION OF LIGNOCELLULOSIC BIOMASS IN FURFURAL AND ITS DERIVATIVES

VELEA Sanda, RADU Elena, GALAN Ana-Maria, GHIMIS Simona-Bianca, CRETU Florentina,

INCDPC- ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania

S1 - O - 7

EXPERIMENTAL RESEARCHES REGARDING THE SYNTHESIS OF POLYFURANS STARTING FROM 2,5-FURANDICARBOXYLIC ACID OBTAINED FROM BIOMASS

Nicoleta PETREA^a, Răzvan PETRE^a, Marcel SONU^a, Alexandru BOBEȘ TUREAC^a,

Andrada Laura PRETORIAN^a, Florentina NEAȚU^b, Vasile ȘOMOȘCHI^c

^a*Scientific Research Centre for CBRN Defense and Ecology, 225 Oltenei Road, 041309, Bucharest, Romania*

^b*University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, 4 – 12 Regina Elisabeta Bvd., 030016, Bucharest, Romania*

^c*SC STIMPEX SA, 46-48 Nicolae Teclu Street, 032368, Bucharest, Romania*

S1 - O - 8

PROCESS FOR OBTAINING FATTY ACID METHYL ESTERS FROM MICROALGAE OIL

**Stepan Emil, Velea Sanda, Enascuta Cristina, Oprescu Emilia,
Vasilievici Gabriel, Radu Elena, Radu Adrian**

*National Research and Development Institute for Chemistry and Petrochemistry ICECHIM Bucharest, Postcode: 060021, Romania, bioresurse@icechim.ro

S1 - O - 9

THE BIOGAS – A RENAWAREABLE SOURCE OF ENERGY – CHALLENGES AND PERSPECTIVES IN ROMANIA

Nicolae SDRULA¹, Daniela Simina STEFAN²

¹ ABR – 19-21 M. Eminescu Street, Bucharest 1, Romania, Email: nicu_zdrula@yahoo.com;

² IPROCHIM S.A. 19-21 M. Eminescu Street, Bucharest 1, Romania

S1 - O - 10

A NORBORNANE FRAGMENT AS SUGAR MOIETY FOR OBTAINING NEW CARBOCYCLIC NUCLEOSIDE ANALOGUES

TANASE Constantin^a, DRAGHICI Constantin^b, COJOCARU Ana^a, ZARUBAEV V.Vladimir^c, GALOCHKINA V. Anastasia^c, ORSHANSKAYA R. Jana^c, SHOVA Sergiu^d, MAGANU Maria^b, ENACHE Cristian^e, PINTILIE Lucia^a, NEGUT Catalina^a, DEACONU Mihaela^a, MIHAI Elena^a

^aNational Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 031299 Bucharest 3, ROMANIA; ^bOrganic Chemistry Center "C.D.Nenişescu, 202 B Splaiul Independentei, Bucharest 060023, ROMANIA;

^cInfluenza Research Institute, Dept. Chemotherapy, 15/17 prof. Popova str., St. Petersburg 197376, Russian Federation; ^dInstitute of Macromolecular Chemistry "Petru Poni", Iasi, ROMANIA

^eCentral Laboratory for Phytosanitary Quarantine, 11, Voluntari Blvd., 077190, Voluntari, ROMANIA

S1 - O - 11

NOVEL NOOS SCHIFF-BASE TYPE COMPLEXES OF COBALT, NICKEL AND COPPER IONS. SYNTHESIS AND CHARACTERISATION.

G.Zamfir¹, N.Stanica², C.Draghici³, N.Spataru², F.Doroftei⁴, M.Silion⁴, Stanomir Maria-Luiza⁵

1-Technical Collegium „Mircea cel Batrin”, 52 Feroviarilor Street, 012207, Bucharest, Roumania. 2-Institute of Physical Chemistry of Roumanian Academy, 202 Splaiul Independentei 060021, Bucharest, Roumania. 3-Institute of Organic Chemistry of Roumanian Academy, 202 Splaiul Independentei, 060023, Bucharest, Roumania. 4-Institute of Macromolecular Chemistry, "Petru Poni", 41A, Aleea Grigore Ghica, 700487, Iasi, Roumania. 5-Environmental Protection and Ecological Technology Center Polytecnic University, 1 Polizu Street, Bucharest.

S1 - O - 12

NON-CLINICAL ANALGESIC EFFECT EVALUATION OF SOME PHARMACEUTICAL DOSAGE FORMS BASED ON EFFECTS POTENTIATION OF ACETAMINOPHEN, ASPIRIN AND CAFFEINE ASSOCIATION WITH CHLORPHENIRAMINE

Velescu Bruno-Stefan¹, Anuta Valentina¹, Sarbu Iulian¹, Octavian Olaru¹, Irina Fierascu², Fierascu Radu²

1 Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania

2 The National Institute for Research & Development in Chemistry and Petrochemistry, 202 Spl. Independentei 060021, Bucharest, Romania

S1 - O - 13

ENZYMES - FOOD TECHNICALLY BREWING PROCESS

Florin Dumitrescu

Plenara

CONVERSION OF PHYTOGENIC SILICA REACH FOOD INDUSTRY BY-PRODUCTS INTO VALUE-ADDED PRODUCTS

F. Oancea¹, K. Leluk², S. Shaposhnikov³, P. C. Cornea⁴, K. Garman⁵, I. Moraru⁶

1-National R&D Institute for Chemistry and Petrochemistry - ICECHIM, Spl. Independentei nr. 202, Bucharest, 060021 Romania; 2-Wroclaw University of Technology, Wybrzeze Wyspanskiego 27, 50-370 Wroclaw, Poland

3- NorGenoTech AS, Totenvegen 2049, 2848 Skreia, Norway; 4- University of Agronomic Sciences and Veterinary Medicines, Faculty of Biotechnologies, Bd. Marasti nr.59, 011464 Bucharest, Romania

5-MKF-Ergis Sp. z o.o. z, ul. Tamka 16, 00-349 Warsaw, Poland; 6- Laboratoarele Medica Srl, Frasinului nr. 11, 075100 Otopeni, Romania

SESIUNE POSTERE – HOLUL MARE(Parter)

S1 – P - 1

SEPARATION OF OMEGA-3 FATTY ACID ESTERS BY MOLECULAR DISTILLATION USE OF ARTIFICIAL NEURAL NETWORK AS MODELING TOOL

ENĂSCUTĂ Cristina Emanuela^{1,2}, STEPAN Emil¹, RADU Adrian¹, LAVRIC Vasile²

¹ Institutul National de Cercetare Dezvoltare pentru Chimie si Petrochimie – ICECHIM
² Universitatea Politehnica Bucuresti, Facultatea de Chimie Aplicata si Stiinta Materialelor

S1 – P - 2

OPTIMIZATION OF AN ANALYTICAL PROCEDURE FOR QUANTIFICATION OF FATTY ACIDS ESTERS FROM MICROALGAL OIL

GĂLAN Ana-Maria¹, CĂLINESCU Ioan¹, VELEA Sanda², RADU Elena², RADU Adrian²

¹ Faculty of Applied Chemistry and Material Science, University Politehnica of Bucharest, 1-7 Gheorghe Polizu Street, RO-011061 Bucharest, Romania

² The National Institute for Research & Development in Chemistry and Petrochemistry, *INCDCP-ICECHIM, 202 Splaiul Independentei, 060021 Bucharest, Romania

S1 – P - 3

ECOLOGICAL LUBRICATING FLUID

**OPRESCU Elena-Emilia^{a,b}, CRISTEA Steliana^a, STEPAN Emil^b, RADU Adrian^b, RADU Elena^b,
VELEA Sanda^b**

^a Petroleum-Gas University of Ploiești; Chemistry Department, Blvd. București, no. 39, 100680, Ploiești, Romania,

^b National Research & Development Institute for Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independentei, 060021, Bucharest, Romania

S1 – P - 4

RELATIONSHIP BETWEEN STRUCTURE AND SURFACE PROPERTIES OF PROTEIN-BASED SURFACTANTS

Dana Vărășteanu¹, Irina Elena Chican¹, Loti OPROIU¹, Marius SIMION²

¹ National Research and Development Institute for Chemistry and Petrochemistry- ICECHIM Bucharest, 202 Splaiul Independentei, 060021, Bucharest, Romania

² National Research and Development Institute for Industrial Ecology (INCD- ECOIND), 71-73 Drumul Podu Dambovitei Street 060652 – Bucharest, Romania

S1 – P - 5

ECOLOGICAL COMPONENT FOR MOTOR FUELS BASED ON FURFURAL DERIVATES VELEA Sanda¹, BOMBOS Mihaela¹, VASILIEVICI Gabriel¹, RADU Adrian¹, BOMBOS Dorin²

¹ National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, 202 Spl. Independentei, 060021, Bucharest, Romania

² Petroleum - Gas University of Ploiesti, 39 Calea Bucuresti, 100520, Ploiesti, Romania

S1 – P - 6

CONTINUOUS FLOW MICROWAVE – ASSISTED EXTRACTION OF POLYPHENOLS FROM GRAPE MARC

Mariana Patrascu¹, Marilena Radoiu², Cristina Toca³

¹ Chemspeed Ltd, Bucharest, Romania, ² SAIREM, Lyon, France, ³ Institute for Diagnosis and Animal Health, Bucharest

S1 – P - 7

ANTIOXIDANT CAPACITY DETERMINATION OF PLANT EXTRACTS BY A CHEMILUMINOMETRIC METHOD

POPA Claudia Valentina¹, CHEREGI Mihaela², BADEA DONI Mihaela³, DANET Andrei-Florin²

¹ University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, Sos. Panduri 90-92, 050657, Bucharest, Romania.

² University of Bucharest, Department of Analytical Chemistry, Sos. Panduri 90-92, 050657, Bucharest, Romania.

³ National Research & Development Institute for Chemistry and Petrochemistry ICECHIM, Department of Biotechnology, Spl. Independentei 202, 06002, Bucharest, Romania.

S1 – P - 8

PHYTOCHEMICAL ANALYSIS OF ZIZIPHUS JUJUBA MILL. LEAVES

HOVANET Marilena-Viorica¹, DUȚU Ligia Elena², DINU Mihaela¹, ANCUCEANU Robert Viorel¹

¹ Department of Pharmaceutical Botany, Faculty of Pharmacy, University of Medicine and Pharmacy, “Carol Davila”, 6 Traian Vuia street, Bucharest, Romania

² Department of Pharmacognosy. Phytochemistry. Phytotherapy, Faculty of Pharmacy, University of Medicine and Pharmacy, “Carol Davila”, 6 Traian Vuia street, Bucharest, Romania

S1 – P - 9

CHEMICAL ANALYSIS OF SOME NEW EXTRACTS OBTAINED FROM *CYMBALARIA MURALIS* (PLANTAGINACEAE)

Olaru Octavian Tudorel, Nițulescu George Mihai, Tomulescu Oana Maria, Enache Ionela Mariana, Velescu Bruno Ștefan, Margină Denisa

1 Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania

S1 – P - 10

EVALUATION OF ANTIOXIDANT ACTIVITY OF ROSES ESSENTIAL OIL OBTAINED BY MICROWAVE – ASSISTED EXTRACTION THROUGH INTLI TECHNOLOGY

Mariana Patrascu,^a Florin Oancea,^b Marilena Radoiu^c

^aDepartment Research and Development, SINTCHEM Ltd, Brasov, Romania

^bINCDCP – ICECHIM, Bucharest, Romania; ^cDepartment Research and Development, SAIREM, Lyon, France

S1 – P - 11

IMPROVED EXTRACTION PROCESSES OF NATURAL COMPOUNDS USED TO GENERATE NEW PHYTOTHERAPEUTICAL PRODUCTS AND COSMETICS

STAICU Vasile, NICA Cristina, SUCIU Alexandru, TAMAS Viorica

S.C. HOFIGAL EXPORT IMPORT S.A., Intrarea Serelor no.2, sector 4, Bucharest, Romania

S1 – P - 12

ANALYSIS OF THE STORAGE STABILITY OF THE WHEATGRASS (*TRITICUM AESTIVUM L.*) JUICE IN TERMS OF ANTIOXIDANT ACTIVITY AND THEIR POLYPHENOLS CONTENT

Rusăndica STOICA¹, Raluca SENIN¹, Mihaela MANOLACHE¹, Florin OANCEA¹, Marian CEAUȘU²

¹National R&D Institute for Chemistry and Petrochemistry – ICECHIM, 202 Splaiul Independentei St., 060021, Bucharest, Romania, E-mail: laborator.analize@icechim.ro

²SC Wind 94 Prod SRL, 28-30 Focșani St., Bucharest, Romania; E-mail: office@wind94.ro

S1 – P - 13

PHYTOPATHOGEN CONTROL OF HORTICULTURAL SHRUBS WITH PLANT EXTRACTS.

III. *FUSARIUM OXYSPORUM*

SESAN Tatiana Eugenia^{1,4,5*}, ENACHE Elena¹, IACOMI Beatrice Michaela², OPREA Maria³, OANCEA Florin⁴, IACOMI Cristian²

1 Department of Botany & Microbiology, Biology Faculty, University of Bucharest tatianasesan@yahoo.com; 2*

Faculty of Agriculture, University of Agronomic Sciences and Veterinary Medicine, Bucharest; 3 Research-Development Institute for Plant Protection, Bucharest; 4 National Research & Development Institute for Chemistry and Petrochemistry, Bucharest; 5 Academy of Agricultural Sciences and Forestry

S1 – P - 14

DAPHNIA MAGNA AS TOXICITY SCREENING TOOL IN PLANTS CONTAINING NOR-TRITERPENE LACTONES

Olaru Octavian Tudorel, Nițulescu George Mihai, Pîrvu Oana Marina, Rușnac Alexandra Mădălina, Spînu Cristiana Elena, Potolea Iulia Marina, Nedelcu Georgiana

Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania

S1 – P - 15

THE EVALUATION OF THE METABOLIC PROFILE FOLLOWING THE ADMINISTRATION OF MELATONIN IN ASSOCIATION WITH IRBESARTAN, ON A HAMSTER EXPERIMENTAL MODEL

DRĂGOI Cristina Manuela¹, NICOLAE Alina Crenguța^{1*}, GRIGORE Corina², ARSENE Andreea Letiția¹

*¹University of Medicine and Pharmacy „Carol Davila”, Faculty of Pharmacy, Department of Biochemistry, Bucharest, Romania; ²University of Medicine and Pharmacy „Carol Davila”, Faculty of Pharmacy, Department of Medical Emergency, Bucharest, Romania; *corresponding author: Alina Crenguța Nicolae, 6th, Traian Vuia, Bucharest, Romania, telephone number +40.723.517.403, alinanicolae29@gmail.com*

S1 – P - 16

BIOLOGICAL RELEVANCE OF REVERSE MICELLES STRUCTURE FOR MIMING THE CELL CYTOPLASM

ARSENE Melania-Liliana, CHIVULESCU Alexandru, VASILESCU Gelu, JECU Luiza, BADEA-DONI Mihaela

National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania

S1 – P - 17

ULTRASOUND ASSISTED - SYNTHESIS OF SILVER NANOPARTICLES

M.Patrascu¹, M. Vinatoru², T.J. Mason²

¹CHEMSPEED Ltd.Bucharest,²Sonochemistry Centre Coventry University

S1 – P - 18

IMPACT OF WATER DYNAMICS ON BIOCATALYSIS PERFORMANCE IN NANOMETER SYSTEMS

ARSENE Melania-Liliana, CHIVULESCU Alexandru, VASILESCU Gelu, JECU Luiza, BADEA-DONI Mihaela

National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania

S1 – P - 19

SCREENING OF MICROBIAL STRAINS WITH LIGNOCELLULOSE DEGRADATION ACTIVITY FOR FURTHER PRACTICAL APPLICATIONS

LASLO Éva¹, BECZE Annamária^{1,2}, KONCZ Mihály³, TORÓ Szabolcs¹, KÁDÁR Attila², MARA Gyöngyvér¹

¹Sapientia University, Faculty of Miercurea Ciuc, Department of Bioengineering, Libertății square no. 1, 530104.

²Politehnica University București, Faculty of Applied Chemistry and Material Science, București, Splaiul Independentei no. 313. ³Szeged University, Faculty of Nature Sciences and Informatics, Szeged, Aradi vértanúk sq.no. 1.

S1 – P - 20

ASSESSMENT OF SOME ABIOTIC FACTORS ON MICROBIAL BIOPRODUCTS USEFUL IN BIOCONTROL OF PHYTOPATHOGENS

DINU Sorina, SICUIA Oana Alina, CONSTANTINESCU Florica

Research- Development Institute for Plant Protection, Laboratory of Bacteriology Bucharest, Romania

**correspondence address: Research-Development Institute for Plant Protection, Bd. Ion Ionescu de la Brad nr.8, CP 013813, s 1, Bucharest, ROMANIA Tel.: 004-021-2693231 (32,34) Fax.: 004-021-2693239E-mail: sori.dinu@yahoo.com*

S1 – P - 21

SIGNIFICANCE OF HYDROLYTIC ENZYMES AND PLANT GROWTH STIMULATION FACTORS OF TRICHODERMA IN BIOLOGICAL PLANT PROTECTION

RAUT Iuliana^{1,2}, SESAN Tatiana Eugenia^{1,2}, OANCEA Florin¹, ARSENE Melania Liliana¹, BADEA-DONI Mihaela¹, VASILESCU Gelu¹, JECU Luiza^{1*}

¹ INCDPC-ICECHIM, Spl. Independentei 202, 060021, Bucharest, Romania; ² University Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest, Romania; * Corresponding author: jecu.luiza@icechim.ro

S1 – P - 22

INHIBITION OF THE PATHOGENIC STRAIN PYTHIUM ULTIMUM UNDER LABORATORY AND GREENHOUSE CONDITIONS

RAUT Iuliana^{1,2}, SESAN Tatiana Eugenia^{1,2}, MACIAS Rocio³, BADEA-DONI Mihaela¹, OANCEA Florin¹, ARSENE Melania Liliana¹, VASILESCU Gelu¹, JECU Luiza^{*}

¹ National Institute for Research & Development in Chemistry & Petrochemistry - ICECHIM, Biotechnology & Bioanalysis Group, 202 Spl. Independentei, Bucharest, Romania; ² University of Bucharest, Faculty of Biology, 91-95 Spl. Independentei, Bucharest, Romania; ³ CEBAS-CSIC Institute, Murcia, Spain; * Corresponding author:

jecu.luiza@icechim.ro

S1 – P - 23

DISRUPTION METHODS OF SACCHAROMYCES SP. YEAST CELL WALL –COMPARATIVE STUDY

Diana Pasarin*, Camelia Rovinaru*, Valentina Filip, Bogdan Frunzareanu****

** National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania; ** SC Romvac Company SA, Str. Centurii nr. 7, Voluntari, Ilfov*

S1 – P - 24

MONITORING PLANT PHENOLOGY AND PHOTOSYNTHETICAL PARAMETERS ON NUTRACEUTICAL PLANTS TREATED WITH SYSTEMIC DEFENCES ELICITORS

Marius GHIUREA¹, Iuliana RĂUT^{1,2}, Tatiana Eugenia ȘESAN^{1,2}, Florin OANCEA¹, Georgeta NEGRU³, Gelu VASILESCU¹, Luiza JECU¹

¹ INCDPC-ICECHIM, Spl. Independentei 202, 060021, Bucharest, Romania; ² University Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest, Romania; ³ SC HOFIGAL EXPORT-IMPORT SA, Intrarea Serelor nr 2, Bucharest, Romania

S1 – P - 25

INFLUENCE OF CONSERVATION MANAGEMENT ON GLOMALIN-RELATED SOIL PROTEIN IN A CAMBIC CERNOZEM SOIL

Mariana Popescu¹, Elena Radu¹, Malina Desliu-Avram¹, Alexandru Cociu², Victor Faraon¹, Florin Oancea¹
1-National Research & Development Institute for Chemistry & Petrochemistry-ICECHIM, Spl. Independentei nr. 202, 060021, Bucharest, Romania; 2-National Agricultural Research&Development Institute, Str. Nicolae Titulescu nr.1, 915200, Fundulea, jud. Călărași, România.

S1 – P - 26

ANTIOXIDANT ACTIVITY AND *IN VITRO* BIOCOMPATIBILITY OF *PASSIFLORA INCARNATA* L. PLANTS TREATED WITH MULTIFUNCTIONAL PRODUCTS

SAVIN Simona, TOMA Agnes, MOLDOVAN Lucia, CRACIUNESCU Oana, OANCEA Anca
National Institute R&D for Biological Sciences, 296, Splaiul Independentei, Bucharest

S1 – P - 27

PLANT BENEFICIAL PSEUDOMONAS SPP. STRAINS ISOLATED FROM RHIZOSPHERE

Sicuia Oana-Alina, Dinu Sorina, Constantinescu Florica

*Research and Development Institute for Plant Protection Bucharest, Romania ; *correspondence address:
Research-Development Institute for Plant Protection, Bd. Ion Ionescu de la Brad nr.8, CP 013813,s 1,
Bucharest, ROMANIA, Tel.:004-021-2693231 (32,34),Fax.: 004-021-269323, E-mail:sicuia_oana@yahoo.com*

S1 – P - 28

BIOLOGICAL ACTION OF PLANT EXTRACTS ON A FUNGAL PLANT BIOSTIMULANT STRAIN OF *TRICHODERMA VIRIDE* PERS.

SESAN Tatiana Eugenia^{1,4,5*}, ENACHE Elena¹, IACOMI Beatrice Michaela², OPREA Maria³, OANCEA Florin⁴, IACOMI Cristian²

1 Department of Botany & Microbiology, Biology Faculty, University of Bucharest tatianasesan@yahoo.com; 2 Faculty of Agriculture, University of Agronomic Sciences and Veterinary Medicine, Bucharest; 3 Research-Development Institute for Plant Protection, Bucharest; 4 National Research & Development Institute for Chemistry and Petrochemistry, Bucharest; 5 Academy of Agricultural Sciences and Forestry*

S1 – P - 29

APPLYING FLOW CHEMISTRY ON TERPENIC ACIDS FOR MULTIFUNCTIONAL BIOPRODUCTS OBTAINING

Stefan-Ovidiu Dima^{a,b}, Radu-Claudiu Fierăscu^a, Elena Radu^a, Sorin-Marius Avramescu^c, Walid Meouche^d, Florin Oancea^a

^a INCDCP ICECHIM, 202 Splaiul Independentei, 060021 Bucharest, Romania; ^b Faculty of Applied Chemistry and Materials' Science, University Politehnica of Bucharest, 1-7 Gheorghe Polizu, 011061 Bucharest, Romania; ^c Faculty of Chemistry, University of Bucharest, 90-92 Panduri, 50663 Bucharest, Romania; ^d Modern University of Business and Science, School of Health Sciences, Wardieh Street, 113-7501 Beirut, Lebanon

S1 – P - 30

NEW WATER-DISPERSIBLE MESOPOROUS SILICA PARTICLES OBTAINED FROM NATURAL RAW RESOURCES

NISTOR Cristina Lavinia^a, IANCHIS Raluca^a, GHIUREA Marius^a, NICOLAE Cristian Andi^a, SPATARU Catalin Ilie^a, PETCU Cristian^a, SOMOGHI Raluca^a, TRICA Bogdan^a, NITU Sabina Georgiana^a, CULITA Daniela^b, PANDELE CUSU Jeanina^b, FRUTH Victor^b, DONESCU Dan^a

^aR&D National Institute for Chemistry and Petrochemistry, Spl. Independentei 202, 6th district, 060021, Bucharest, Romania; ^b"Ilie Murgulescu" Institute of Physical Chemistry of Romania Academy, Spl. Independentei 202, 6th district, 060021, Bucharest, Romania

S1 – P - 31

THE INDUSTRIAL SALT, PRELIMINARY STUDIES ON ITS IMPORTANCE AND A NEW WAY TO REDUCE ITS PRICE FOR MANUFACTURING

IONESCU Ana Despina*, CASARICA Angela*, BAZDOACA Cristina*, BOCA Elena*, GIURGIU Nicolae**

**National Chemical-Pharmaceutical for Research and Development Institute, Vitan Avenue, No.112, District 3, Bucharest; **MINESA ICPM S.A. , Cluj-Napoca, Tudor Vladimirescu Street, No. 15-17*

S1 – P - 32

STUDIES ON RHEOLOGICAL BEHAVIOR OF POLY(3-HYDROXYBUTYRATE) USING A BRABENDER PLASTOGRAPH

RÂPĂ Maria¹, GROSU Elena¹, ZAHARIA Cătălin², STĂNESCU Paul Octavian², HETVARY Mihaela¹, STANCIU Daniela¹

¹ S.C. I.C.P.E. BISTRITA S.A., 7 Parcului Street, 420035, Bistrita, Romania ; ²UNIVERSITY POLITEHNICA OF BUCHAREST, Advanced Polymer Materials Group, Gh. Polizu Street no.1-7, 011061 Bucharest, Romania

S1 – P - 33

EFFECT OF RENAWABLE BIOPLASTICIZER ON SOME BIOPOLYMERS PROPERTIES FOR FOOD PACKAGING APPLICATION

RÂPĂ Maria¹, DARIE-NIȚĂ Raluca-Nicoleta², VASILE Cornelia², GROSU Elena¹, IRIMIA Anamaria², STĂNULEȚ Lucica¹, TRIFOI Ancuța¹, PAP Timea¹, BEDŐ David¹, BLĂJAN Olimpiu¹, CRUCEAN Augustin¹

¹S.C. ICPAO S.A., 8 Carpati,551022 Medias, Sibiu, Romania

²„Petru Poni" Institute of Macromolecular Chemistry Iasi, 41A Grigore Ghica Voda Alley,700487 Iasi, Romania

**THE RESISTANCE OF WOOD - POLY(VINYL CHLORIDE) COMPOSITES
TO MICROBIAL DEGRADATION**

**RAUT Iuliana^{1,2}, GROSU Elena³, RAPA Maria³, ARSENE Melania Liliana¹, BADEA-DONI Mihaela¹,
VASILESCU Gelu¹, ALECSANDRESCU Elvira¹, JECU Luiza^{1*}**

¹ INCDPC-ICECHIM, Spl. Independentei 202, 060021, Bucharest, Romania; ² University Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest, Romania; ³ - SC ICPE Bistrita SA, Parcului Street, nr. 7, Bistrita,

**BACTERIAL CELLULOSE - POLY(ACRYLIC ACID) INTERPENETRATING POLYMER NETWORKS
(IPN) COMPOSITE HYDROGELS CONTAINING NATURAL BIOACTIVE SUBSTANCES**

**ZAHARIA Anamaria¹, PERRIN Francois-Xavier², SÂRBU Andrei¹, IANCU Stela¹, RADU Anita-Laura¹,
IORDACHE Tanta-Verona¹, DULDNER Monica¹, SANDU Teodor¹, STOICA Anicuța³, STROESCU Marta³**

¹National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, Splaiul Independentei no. 202, Bucharest, 06002; ²University of South Toulon-Var, Laboratoire Matériaux Polymères Interfaces et Environnement Marin, BP 132, 83957 La Garde Cedex, France; ³Politehnica University of Bucharest, Faculty of Applied Chemistry and Materials Science, Polizu no. 1-7, Bucharest, 011061;

**FACILE SYNTHESIS OF NON-TOXIC SILICA PARTICLES STABILIZED WITH OLEIC ACID
NISTOR Cristina Lavinia, IANCHIS Raluca, TRICA Bogdan, SPATARU Catalin Ilie, PETCU Cristian,
PURCAR Violeta, SOMOGHI Raluca, ALEXANDRESCU Elvira, NITU Sabina Georgiana,
DONESCU Dan**

R&D National Institute for Chemistry and Petrochemistry, Spl. Independentei 202, 6th district, 060021, Bucharest

**THE STUDY OF SURFACE AREA AND POROSITY OF MULTIPARTICULATE SYSTEMS LOADED
WITH A NON-STEROIDAL ANTIINFLAMATORY DRUG**

HÎRJĂU Mircea¹, DINU-PÎRVU Cristina Elena¹, GHICA Mihaela Violeta¹

¹Faculty of Pharmacy, University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania

THE 5-AMINOPYRAZOLE. A POWERFUL TOOL IN DESIGNING JANUS KINASES INHIBITORS

**Nitulescu George Mihai, Nedelcu Georgiana, Velescu Bruno Ștefan, Oлару Octavian Tudorel
Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania**

**MECHANICAL CALCULATIONS AND MOLECULAR PROPERTIES PREDICTION FOR AMINO ACIDS
WITH NON POLAR, ALIPHATIC SIDE CHAINS**

STEFANIU Amalia^{1*}, IULIAN Olga², BRASOVEANU Toma Marius²

¹National Institute for Chemical - Pharmaceutical Research and Development (ICCF) - Bucharest, 112 Vitan Av., 031299, Bucharest, Romania; ²Politehnica University of Bucharest, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, 1-7 Polizu, 011061 Bucharest, Romania

**STUDY OF THE ORGAN DISTRIBUTION OF TWO NOVEL RUTHENIUM(II)COMPLEX WITH
ANTICANCER PROPERTIES**

**Luigi Silvestro¹, Bruno-StefanVelescu², Valentina Anuta², George Mihai Nitulescu², Valentina Uivarosi², Maria
Iuliana Gruia³**

¹ Pharmaserv International, Calea 13 Septembrie 90, 050726 Bucharest, Romania; ² Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania; ³Institute of Oncology Bucharest, 252 Fundeni, 022338, Bucharest, Romania

STUDIES FOR OBTAINING mcl-PHA (CO) POLYESTERS WITH DIFFERENT COMPOSITIONS

**VLADU Mariana-Gratiela¹, PETRESCU Maria-Monica¹, STEFANIU Amalia¹, SAVOIU Gabriela Valeria¹,
SPIRIDON Mariana, EREMIĂ Mihaela Carmen¹, PARASCHIV Ileana¹ and LUPESCU Irina^{1,2}**

¹National Institute for Chemical-Pharmaceutical Research and Development (ICCF) Bucharest, 112 Vitan Av., 031299, Bucharest, Romania; ²"Spiru Haret" University, Faculty of Veterinary Medicine, 9-11 Energeticienilor Blvd, 32091, Bucharest, Romania

**FLOW INJECTION SYSTEM FOR THE ELECTROCHEMICAL MONITORING OF PEROXYNITRITE
AND ITS REACTION WITH MYOGLOBIN**

Ioana Silvia Hosu, Florin Oancea, Mihaela Doni

¹National Institute for R & D in Chemistry & Petrochemistry - ICECHIM, 060021, Bucharest, Romania. E-mail:
m_badea@yahoo.it ; ioana.shosu@yahoo.com

MULTI-ANALYTE DETECTION OF DOPAMINE AND CATECHOL AT ELECTROCHEMICAL MICROBIOSENSORS BASED ON MICROELECTRODE ARRAYS

LUPU Stelian¹, LETE Cecilia², BALAURE Paul Cătălin³, CAVAL Dan Ion¹

¹ Department of Analytical Chemistry and Environmental Engineering, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 1-7 Polizu Street, 011061 Bucharest, Romania; ² Institute of Physical Chemistry “Ilie Murgulescu” of the Romanian Academy, 202 Splaiul Independentei, 060021 Bucharest, Romania

³ Department of Organic Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 1-7 Polizu Street, 011061 Bucharest, Romania

STUDY OF THE ELECTROCHEMICAL BEHAVIOUR OF SOME LAMIACEAE EXTRACTS

LUNGU Liliana¹, DINOIU Vasile¹, POPA Claudia Valentina², BADEA DONI Mihaela³

¹ Institute of Organic Chemistry “C.D.Nenitescu” Spl. Independentei 202B, 06002, Bucharest, Romania.

² University of Bucharest, Department of Analytical Chemistry, Sos. Panduri 90-92, 050657, Bucharest, Romania.

³ National Research & Development Institute for Chemistry and Petrochemistry ICECHIM, Department of Biotechnology, Spl. Independentei 202, 06002, Bucharest, Romania.

NEW STOCHASTIC SENSORS FOR ASSESSING THE EFFECT OF OLEAMIDES ON THE OBESITY

NEGUT Catalina^a, STEFAN-VAN STADEN Raluca-Ioana^b, UDEANU Denisa Ioana^c

^a National Institute for Chemical–Pharmaceutical Research and Development ICCF, Bucharest, Romania;

^b Laboratory of Electrochemistry and PATLAB Bucharest, National Institute of Research for Electrochemistry and Condensed Matter, Romania;

^c Department of Clinical Laboratory and Food Safety, Faculty of Pharmacy, University of Medicine and Pharmacy “Carol Davila”, Bucharest, Romania

FAST EVALUATION OF POLYETHYLENE BIODEGRADABILITY BY MICROCALORIMETRY

MUSUC Adina Magdalena¹, DONI Mihaela², JECU Luiza², MUNTEANU Cornel¹, POPA Vlad Tudor¹

¹ Romanian Academy “Ilie Murgulescu” Institute of Physical Chemistry, 202 Splaiul Independentei, 060021 Bucharest, Romania

² National Research and Development Institute for Chemistry and Petrochemistry, ICECHIM, 202 Splaiul Independentei, 060021 Bucharest, Romania



29 octombrie 2015

Sectiunea 2 – Ingineria Mediului si Protectia Patrimoniului Cultural
Sectiunea 4 – Petrochimie si Inginerie Chimica

COMUNICARI ORALE - ora 14:00 - Sala Protocol (etajul 1)

Moderatori:

Prof. Univ. Ioan CĂLINESCU
Prof. Dr. Chim. Rodica-Mariana ION

Conferinta plenara

ERORI IN TRANSPUNEREA INDUSTRIALA A TEHNOLOGIILOR CHIMICE SI PETROCHIMICE
OPRESCU Ion

HAROM

S2 – O - 1

VITREOUSE COATINGS FOR PRESERVATION OF HERITAGE OBJECTS

MOCIOIU Oana Catalina

*“Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy, 202 Splaiul Independentei,
060021 Bucharest, Romania; e-mail: omocioiu@icf.ro*

S2 – O - 2

**DETERMINATION OF A PERFUMING LIQUID IN ALKOXY PROPANOLS AS SOLVENT
BY GC-MS AND GC-TCD. THE ELUTION ORDER AND THE McREYNOLD’S CONSTANTS**

Dr. chem. Virgil Badescu

National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM

S2 – O - 3

INNOVATIVE TRAINING SOLUTIONS OF ENTREPRENEURS FROM THE LIFE SCIENCE FIELDS

Ana Aurelia Chirvase¹, **Nicoleta Radu**^{1*}, Narcisa Babeanu², Fantxo Hastaran³, Birute Velykiene⁴.

¹ I.N.C.D.C.P Bucharest, Biotechnology Department, Romania; ²USAMV Bucharest, Faculty of Biotechnology, Romania; ³AFMR Etcharry, France; ⁴KSP, Kaunas, Lithuania; ¹

S2 – O - 4

**KEY COMPETENCES NEEDED TO START AND DEVELOP THE INNOVATIVE SME’S IN THE FIELD
OF LIFE SCIENCES**

Nicoleta Radu^{1*} Ana Aurelia Chirvase¹, Narcisa Babeanu², Fantxo Hastaran³, Birute Velykiene⁴.

¹ I.N.C.D.C.P Bucharest, Biotechnology Department, Romania; ²USAMV Bucharest, Faculty of Biotechnology, Romania; ³AFMR Etcharry, France; ⁴KSP, Kaunas, Lithuania

S4 – O - 5

FUEL HYDRODESULFURIZATION IN HETEROGENEOUS CATALYSIS

DOUKEH Rami¹, **BOLOCAN Ion**¹, **VELEA Sanda**², **BOMBOS Mihaela**², **VASILIEVICI Gabriel**², **BOMBOS Dorin**¹, **GEORGESCU Vasile**³

1- Petroleum - Gas University of Ploiesti, 39 Calea Bucuresti, 100520, Ploiesti, Romania; 2- National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, 202 Spl. Independetei, 060021, Bucharest, Romania; 3- “Ilie Murgulescu” Institute of Physical Chemistry, Romanian Academy, Spl.Independentei 202, 77208 Bucharest, Romania

S4 – O - 6

TECHNODESIGN-ul – REZISTENȚA EDUCAȚIEI INGINEREȘTI

DUMITRESCU Florin

Colegiul Tehnic „General David Praporgescu”

SESIUNE POSTERE – S2 si S4 – HOL MARE (Parter)

S2 – P - 1

NON –HAZARDOUS PRODUCTS FROM RED MUD WASTE

F.Bacalum¹, L. Sarbu¹, R. Zavoianu², L.Mara³, T.Sandu¹, S.Doncea¹, R.Senin,¹ I.Minca¹, I.Ciobanu¹, S.Apostol¹
¹National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM, Splaiul Independentei 202, Bucharest 060021, Romania;² Faculty of Chemistry, University of Bucharest, Mihail Kogalniceanu 36, Bucharest 050107, Romania;³, National R&D Institute for Nonferrous and Rare Metals, , Pantelimon, Ilfov, Romania

S2 – P - 2

THE INTERACTION OF IMPURITIES CONTAINED IN NATURAL PHOSPHATES ON THE NITRIC ACID DECOMPOSITION

Georgeta BALEANU¹, Victor Alexandru FARAON¹

¹INCDCP – ICECHIM Bucharest, Splaiul Independentei Blvd., no. 202, sector 6, Bucharest, Romania

S2 – P - 3

BREAKTHROUGH CURVE STUDIES FOR THE REMOVAL OF COBALT FROM AQUEOUS SOLUTIONS ON PUROLITE ION EXCHANGE RESINS

Irina Elena Chican¹, Dana Vărășteanu¹, Mircea Ruse¹, Zornitsa Tsoleva², Bozhdidar Slavchev², Lyuben Dobrev²

¹National Research and Development Institute for Chemistry and and Petrochemistry- ICECHIM Bucharest, 202 Splaiul Independentei, 060021, Bucharest, Romania

²Institute for Nuclear Research and Nuclear Energy- INRNE, 72 Tzarigradsko shose, 1784, Sofia, Bulgaria

S2 – P - 4

ADSORPTION DECOLORIZATION TECHNIQUE OF TEXTILE/ LEATHER – DYECONTAINING EFFLUENTS

Marian Deaconu, Raluca Senin, Anca Athanasiu, Loti Oproiu, Mircea Ruse, Catalin Filipescu (1), Marian Crudu (2)

(1)The National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM Splaiul Independentei 202, sector 6, Bucuresti, deaconu319@yahoo.com, 0723264950

(2) Leather and Footwear Research Institute- ICPI, Ion Minulescu 93, sector 3, Bucuresti

S2 – P - 5

FTIR SPECTRAL ANALYSIS OF COLOURED PRINTING INKS FROM A MAP OF A LATE XIX-th CENTURY ROMANIAN BOOK

Sanda Maria Doncea^{1,2}, Rodica Mariana Ion^{1,2},

1. National Research & Development Institute for Chemistry and Petrochemistry- ICECHIM, Bucharest, Romania

2. Valahia University, Targoviste, Romania

S2 – P - 6

STUDY ON THE EFFECT OF USING ORGANOCATALYSTS IN THE SYNTHESIS OF POLYESTER-POLYOLS FOR THERMAL INSULATING POLYURETHANE RIGID FOAMS, FROM PET WASTES AND RENEWABLE RESOURCES

DULDNER Monica*, IANCU Stela *, CAPITANU Stanca*, BARTHA Emeric **, NICA Simona, SARBU Andrei *, APOSTOL Steluta *, SANDU Teodor *, ZAHARIA Anamaria *, RADU Anita-Laura***

*Research & Development National Institute for Chemistry and Petrochemistry – ICECHIM, Splaiul Independentei 202, Bucharest, Romania; **Center of Organic Chemistry “C.D. Nenitescu”, Romanian Academy of Science, Splaiul Independentei 202B, Bucharest, Romania

S2 – P - 7

PHYSICAL AND CHEMICAL CHARACTERIZATION OF WASTE ON THE TARNAVENI PLATFORM IN ORDER TO RECOVER VARIOUS ELEMENTS

ENACHE Lenuta, NEAGU Eleonora, SOARE Victoria, MOCIOIU Ana Maria, PURCARU Victoria, BADILITA Viorel

The National Research and Development Institute of Non-ferrous and Rare Metals –INCDCP-IMNR

S2 – P - 8

FLOURINE VALORIFICATION OBTAINED IN THE FABRICATION PROCESS OF COMPLEX FERTILIZERS

Victor Alexandru FARAON¹, Georgeta BALEANU¹

¹INCDCP – ICECHIM Bucharest, Splaiul Independentei Blvd., no. 202, sector 6, Bucharest, Romania

S2 – P - 9

“SIMULATED ARTEFACTS” IN BIODETERIORATION STUDIES: COMPARISON BETWEEN THE USE OF NATURAL EXTRACTS AND SYNTHESIZED MATERIALS AS ANTIFUNGAL AGENTS

Radu Claudiu Fierascu, Irina Fierascu, Rodica Mariana Ion, Marius Ghiurea

INCDCP-ICECHIM, 202 Spl. Independentei, 060021, sect. 6, Bucharest, Romania

PHOTO-DEGRADATION STUDY OF POLYBROMINATED ORGANIC COMPOUNDS
GRĂDINARU Ioana Andreea¹, VELEA Teodor¹, NADIM Abdelouahab², BOUBERKA Zohra³, MASCHKE Ulrich²

¹ National R&D Institute for Nonferrous and Rare Metals, 102 Biruintei Blvd. Pantelimon, ILFOV, 077145, ROMANIA

² Unité Matériaux et Transformations (UMET), UMR 8207, Bât. C6, Université Lille 1-Sciences et Technologies, 59655 Villeneuve d'Ascq, France ;

³ Laboratoire de Physico-Chimie des Matériaux - Catalyse et Environnement (LPCMCE). Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, USTO-MB, BP 1505, El-M'naouer, Oran, Algeria

STUDY OF WATER QUALITY PHYSICO-CHEMICAL PARAMETERS.
CASE ON DANUBE IN BRAILA CALARASI AREA

IVANCIU Valentin – Cristian¹, ERAISCHI Constantin Marius¹, IULIAN Olga²

¹ National institute for Research and Development in Environmental Protection, 294, Spl independentei, District 6 060031 Bucharest, Romania; ² Politehnica University of Bucharest, 1-7 Polizu, 011061 Bucharest, Romania

CONSERVATION AND RESTORATION OF THE CHURCH ASCENSION ICONOSTASIS FROM GRINDU COMMUNE – PRELIMINARY DATES

MARINESCU Maria¹, APREUTESEI Daniela², EMANDI Ana³, CINTEZA Ludmila-Otilia⁴

¹ University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, Sos. Panduri 90-92, 050657, Bucharest; ² Bucharest National University of Arts, 19 Budisteanu, 010773, Bucharest (Romania)

³ University of Bucharest, Department of Inorganic Chemistry, Sos. Panduri 90-92, 050657, Bucharest, ⁴ Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest, 4-12 Regina Elisabeta, 030018 Bucharest, Romania

COMPARISON BETWEEN DIFFERENT ADSORBENT MATERIALS USED FOR COPPER (II) REMOVAL /FROM AQUEOUS SOLUTIONS

T. Velea¹, G. Moise¹, A. Grădinaru¹, L. Mara¹, Fiz. V. Badilita¹, V. Fruth², C. Munteanu²

¹ National R&D Institute for Nonferrous and Rare Metals, 102 Biruintei Blvd, Pantelimon, ILFOV, 077145, phone/fax: + 40213522046/+40213522049, e-mail: imnr@imnr.ro, Romania

² „Ilie Murgulescu” Institute of Physical Chemistry of the Romanian Academy, 202 Splaiul Independentei st., Bucharest

THE IMPACT OF HYDROPHOBIZATION AND CONSOLIDATION TREATMENTS ON SOME INDIGENOUS LITHIC CALCAREOUS MATERIALS USED IN THE RESTORATION INTERVENTIONS OF SOME HISTORICAL MONUMENTS

PELIN Vasile^(1a), SANDU Ion^(2a), GURLUI Silviu⁽³⁾, BRÂNZILĂ Mihai^(1b), VASILACHE Viorica^(2b), SANDU Ioan Gabriel⁽⁴⁾⁽⁵⁾

(1) University "Al. I. Cuza ", Faculty of Geography-Geology, Doctoral School of Chemistry and Life Sciences and Earth, Carol I Blvd, no. 20A, Iași, 700505, Romania, (a) vasilepelin@yahoo.com; (2) Interdisciplinary Platform ARHEOINVEST, University "Al. I. Cuza ", Carol I Blvd., no. 11, 700506, Iași, Romania

(2) University "Al. I. Cuza ", Faculty of Physics, Carol I Blvd., no. 11, 700506, Iași, Romania

(3) University Technical "Gheorghe Asachi" , Faculty of Materials Science and Engineering, D. Mangeron Street, no. 61A, 700050, Iași, Romania;

(4) Romanian Inventors Forum, Sf. Petru Movilă Street, no. 3, 700089, Iași, Romania

POLYCHLORINATED BIPHENYL COMPOUNDS (PCBs) DETERMINATION FROM WATER BY GAS CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY (GC – MS)

Raluca SENIN, Virgil BADESCU, Rusandica STOICA

National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM, Bucharest

TOTAL POLYPHENOLS AND FLAVONOIDS CONTENT AND ANTIOXIDANT ACTIVITY OF ROBINIA PSEUDOACACIA AND CRATAEGUS MONOGYNA EXTRACTS

Șuică-Bunghez Raluca, Ion Rodica-Mariana

INCDCP-ICECHIM, 202, Spl Independentei, Bucharest

THE LIQUID MEMBRANE PROCESS OPTIMIZATION FOR SEPARATION OF CADMIUM CATIONS, USING D2EHPA AS CARRIER

Mariana MATEESCU², Ioneta Bujanca², Ioana Raluca BUNGHEZ²

² National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM Bucharest, 202 Spl. Independentei, 060021, Bucharest, Romania, e-mail: marinamateescu@yahoo.com

S2 – P – 18

INVESTIGATION OF RARE EARTH METALS LEACHING PROCESS FOR NEODYMIUM RECOVERY FROM SCRAP Nd-Fe-B MAGNETS

MARA Luminita¹, MOISE Georgiana¹, GRADINARU Andreea¹, GHERGHE Liliana¹, MIHAIESCU Daniel¹, CAPOTA Petre¹, PURCARU Victoria¹

¹National Research and Development Institute for Nonferrous and Rare Metals IMNR, 102 Biruintei street, Pantelimon, Ilfov, Romania, phone: 0040213522046, fax: 0040213522049, lmara@imnr.ro

S4 – P - 19

**MODIFIED ROAD BITUMEN WITH POLYBUTENE
BOMBOS Mihaela¹, VELEA Sanda¹, VASILIEVICI Gabriel¹, BOMBOS Dorin²,
BEICA Vasilica³, GEORGESCU Vasile⁴**

¹ National Institute for Research Development for Chemistry and Petrochemistry- ICECHIM-Bucuresti, 202 Spl. Independetei, 060021, Bucharest, Romania; ² Petroleum - Gas University of Ploiesti, 39 Calea Bucuresti, 100520, Ploiesti, Romania; ³ Center for Road Technical Studies and Informatics-CESTRIN, Bd. Iuliu Maniu 401A, Bucharest, Romania; ⁴ "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Spl.Independentei 202, 77208 Bucharest, Romania

S4 – P - 20

**STUDY OF PHYSICO-CHEMICAL PROPERTIES OF GASOLINE+BIOALCOHOLS MIXTURES
NITA Irina¹, IULIAN Olga², GEACAI Elis², OSMAN Sibel²**

¹ "Ovidius" University of Constanta, bd. Mamaia 124, Constanta 900521, Romania
² Politehnica University of Bucharest, 132 Calea Grivitei, Bucharest 010737, Romania

S4 – P - 21

**PRESSURE AND TEMPERATURE INFLUENCE ON COMBUSTION PROPAGATION IN
n-BUTANE-AIR GASEOUS MIXTURES**

GIURCAN Venera¹, MITU Maria¹, RAZUS Domnina¹, OANCEA Dumitru²

¹ "Ilie Murgulescu" Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania
² University of Bucharest, Department of Physical Chemistry, 4-12 Blvd. Elisabeta, 030018, Bucharest, Romania

S4 – P - 22

**NITROGEN INFLUENCE ON FLAME PROPAGATION IN C₂H₄-N₂O MIXTURES
MOVILEANU Codina¹, RAZUS Domnina¹, MITU Maria¹, GIURCAN Venera¹ and OANCEA Dumitru²**

¹"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania
²Department of Physical Chemistry, University of Bucharest, Bucharest, Romania

S4 – P - 23

**SULFONAMIDE DERIVATIVES OF PHENOXYACETIC ACID; SYNTHESIS AND STRUCTURAL
CHARACTERIZATION**

Pintilie Lucia¹, Stefanu Amalia¹, Caproiu Miron Teodor², Maganu Maria², Oniscu Corneliu³

¹National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 74373 Bucharest 3, Romania, email: lucia.pintilie@gmail.com; ²Organic Chemistry Center "C.D.Nenitescu", 202 B Splaiul Independentei, Bucharest 6, Romania; ³ Technical University "Gh. Asachi" of Iasi, Faculty of Industrial Chemistry, 71, D. Mangeron Av.6600, Iasi, Romania

S4 – P - 24

SYNTHESIS AND SPECTROSCOPY STUDIES OF BY-PRODUCTS OF CHLOROQUINALDOL

Pintilie Lucia¹, Deaconu Mihaela¹, Stefanu Amalia¹, Tanase Constantin¹, Caproiu Miron Teodor²

¹National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 74373 Bucharest 3, Romania, email: lucia.pintilie@gmail.com ²Organic Chemistry Center "C.D.Nenitescu", 202 B Splaiul Independentei, Bucharest 6, Romania.

S4 – P - 25

BIOFUELS IN THE FUTURE

IULIAN Olga¹, Nita Irina², STOICA Georgiana-Raluca¹, POPESCU Alexandra-Ramona¹

¹ Politehnica University of Bucharest, 132 Calea Grivitei, Bucharest 010737, Romania
² "Ovidius" University of Constanta, bd. Mamaia 124, Constanta 900521, Romania

S4 – P - 26

**VAPOR-LIQUID EQUILIBRIA AND THERMOPHYSICAL PROPERTIES FOR PROTOTYPE IONIC
LIQUID WITH 1-BUTANOL BINARY SYSTEMS**

TEODORESCU Mariana

"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, Splaiul Independentei 202, Bucharest, Romania



29 octombrie 2015

Sectiunea 3 – Materiale Multifunctionale si Nanocompozite

COMUNICARI ORALE - ora 14:00 - Biblioteca (etajul 2)

Moderatori:

Conf. Dr. Ing. Cătălin ZAHARIA

Dr. Ing. Zina VULUGA

S3 – O - 1

STRUCTURAL ANALYSIS OF CuPC THIN FILMS ANNEALED IN DIFFERENT ENVIRONMENTS

Stefan Robu², Dumitru Duca¹, Galina Dragalina², Tamara Potlog¹, Valentin Nica³

1. Department of Physics and Engineering, Moldova State University, MD 2009, Chisinau Moldova

2. Department of Chemistry, Moldova State University, MD 2009, Chisinau Moldova

3. Faculty of Physics, Alexandru Ioan Cuza University, Iasi 700506, Romania

S3 – O - 2

THE STYRENE-BUTADIENE BLOCK-COPOLYMER GRAFTING WITH TETRACYCLINE

Stefan Robu^{1*}, Gheorghe Duca¹, Viorel Prisacari², Maria Gonta¹, Vitalie Filip¹, Paul Ghioca³, Lorena Iancu³

¹The State University of Moldova, 60, A. Mateevici Str., MD-2012 Chisinau, Republic of Moldova;

²The Medicine State University, "N. Testemițeanu", 165 Blvd. Ștefan cel Mare, Chisinau, Republic of Moldova

³National Research- Development Institute for Chemistry and Petrochemistry, ICECHIM
202, Spl. Independentei, Bucharest, Romania;

S3 – O - 3

RHEOLOGICAL PROPERTIES OF HUMAN BODY SIMULANTS FOR MILITARY USE

Teodora Zecheru¹, Ciprian Său¹, Cătălin Zaharia², Claudiu Lăzăroaie¹

¹Scientific Research Center for CBRN Defense and Ecology, 225 Olteniței Sos., 041309 Bucharest, Romania

²Polytechnic University of Bucharest, Faculty of Applied Chemistry and Materials Science, Advanced Polymer
Materials Group, 1-7 Gh. Polizu Str., 011061 Bucharest, Romania

S3 – O - 4

CATALYTIC AND PHOTOCATALYTIC SYSTEMS FOR DECOMPOSITION OF THE CWAs

**Nicoleta PETREA^a, Razvan PETRE^a, Constantin TOADER^a, Gabriel EPURE^a, Ovidiu IORGA^a, Georgeta
MITRU^a, Vasile ȘOMOCHI^b, Stefan NEAȚU^b**

^aScientific Research Centre for CBRN Defense and Ecology, 225 Oltenitei Ave., 041309, Bucharest, Romania

^bSC STIMPEX SA, 46-48 Teclu Nicolae Street, 032368, Bucharest, Romania

S3 – O - 5

DIFFERENT TECHNIQUES FOR THE PREPARATION OF 1%, 2%, 3% NICKEL/ACTIVATED CARBON ELECTROCATALYSTS FOR PEMFCs

**Nicoleta PETREA^a, Marcel SONU^a, Răzvan PETRE^a, Ovidiu IORGA^a, Alexandru BOBEȘ TUREAC^a, Mihaela
FLOREA^b, Ștefan NEAȚU^c, Vasile ȘOMOCHI^c**

^aScientific Research Centre for CBRN Defense and Ecology, 225 Oltenitei Ave., 041309, Bucharest, Romania

^bUniversity of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, 4 – 12 Regina Elisabeta
Bvd., 030016, Bucharest, Romania

^cSC STIMPEX SA, 46-48 Nicolae Teclu Street, 032368, Bucharest, Romania

S3 – O - 6

ANALYSIS METHOD BY ICP-OES FOR THE DETERMINATION OF PRECIOUS, PLATINUM GROUP AND RELATED ELEMENTS FROM ORES AND TECHNOLOGICAL SOLUTIONS

CAPOTA Petre, PURCARU Victoria

National Institute of Research - Development for Nonferrous and Rare Metals - IMNR
Biruinței 102 Blvd. Pantelimon Ilfov, ROMANIA

S3 – O - 7

THE DIRECT ANALYSIS OF SOLID SAMPLES WITHOUT DISSOLUTION, BY ICP-OES

CAPOTA Petre, CONSTANTIN Ionuț, OLARU Tudor Mihai

National Institute of Research - Development for Nonferrous and Rare Metals - IMNR,
Biruinței 102 Blvd. Pantelimon Ilfov, ROMANIA

S3 – O - 8

DESORPTION PROPERTIES OF MCM-41 USING CEFEPIME

GUDOVAN Dragoș^a, MIHAIESCU Dan Eduard^a, DEACONU Mihaela^{a,b}, PINTILIE Lucia^b

^a University “Politehnica” of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh Polizu Street, 011061 Bucharest, Romania; ^b National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 031299 Bucharest, Romania

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DYNAMIC STRESS MITIGATION OF POLYMER COMPOSITE MATERIALS

Petre Răzvan*, Zecheru Teodora*, Petrea Nicoleta*, Iorga Ovidiu*, Hubca Gheorghe**

Scientific Research Centre for CBRN Defence and Ecology, 225 Oltenitei Av., 041309 Bucharest, Romania
University POLITEHNICA of Bucharest, 1-7 Polizu Str., 011061 Bucharest, Romania

S3 – O - 10

STYRENE-DIENE BLOCK COPOLYMERS REINFORCED WITH BENTONITE

Ghioca Paul, Iancu Lorena, Spurcaci Bogdan, Ramona Grigorescu, Michaela Iorga, Dorel Florea

National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Splaiul Independentei, 060021, Bucharest, Romania, pghioca@yahoo.com
INCDCP-ICECHIM, Spl. Independentei No. 202, Sector 6, 060021 Bucharest, Romania

S3 – O - 11

COLOURED POLYMERIC MICROCOMPOSITES WITH MINIMAL ENVIRONMENTAL IMPACT

Mircea Ruse¹, Sandu Perez², Valentin Raditoiu¹, Anca.A.Athanasiu¹, Loti.C. Oproiu¹, Marian Deaconu¹, Catalin Filipescu¹, Raluca Senin¹

¹ National Research and Development Institute of Chemistry and Petrochemistry – ICECHIM ² Institute of Physical Chemistry “I. Murgulescu” – ICF (Academy), Splaiul Independentei, no.202, sector 6, Bucharest, Romania

S3 – O - 12

VANCOMYCIN SORPTION ON PRISTINE AND OXIDIZED EXFOLIATED GRAPHITE NANOPATELETS

Elena Radu¹, Rusândica Stoica¹, Sanda Maria Doncea¹, Elvira Alexandrescu¹, Ahmed Jassim Muklive Al-Ogaidi^{2,3}, Mirela Mihon⁴, Ion Ion², Alina Catrinel Ion^{2*}

¹National Research&Development Institute for Chemistry and Petrochemistry ICECHIM, Department of Bioresources, 202 Splaiul Independentei Street, 060021, Bucharest, Romania; ²University Politehnica of Bucharest, Department of Analytical Chemistry and Environmental Engineering, Polizu Street no. 1-7, 011061, Bucharest, Romania; ³University of Technology, Department of Applied Sciences, Al-Senaa Street, Baghdad, Iraq; ⁴Horia Hulubei National Institute for Research&Development in Physics and Nuclear Engineering IFIN-HH, 30 Reactorului Street, Bucharest-Magurele

SESIUNE POSTERE – S3 – HOL MARE(Parter)

S3 – P - 1

SELF- DISPERSIBLE CARBON BLACK PIGMENT (C I PBlk 7), PREPARATION METHODS AND CLASSIC AND NEWER AREAS OF USE

Angela Anca Athanasiu¹, Marian Deaconu, Sanda Doncea, Loti Cornelia Oproiu, Marian Crudu², Mircea Ruse, Catalin Filipescu¹, Dan Rosu³

¹National Research and Development Institute for Chemical and Petrochemical –ICECHIM Splaiul Independentei, no 202, sector 6, Bucharest, Romania; ² National Research and Development Institute for Leather –Footwear- ICPI ³Institute of macromolecular chemistry -Petru Poni Iasi

S3 – P – 2

STUDIES FOR SOLID-PHASE EXTRACTION USING MOLECULAR IMPRINTED POLYMERS FOR NITROFURANTOINE

Bacalum Elena¹; Cheregi Mihaela¹; Bucur Bogdan²; David Victor¹; Rizea Florentina³; Diacon Aurel³; Rusen Edina³

¹University of Bucharest, Faculty of Chemistry, Sos Panduri 90-92, Bucharest 050663, Romania; ²National Institute of Research and Development for Biological Science, Spl Independenței 296, Bucharest 060031, Romania; ³University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Spl. Independentei 313, Bucharest 060042, ROMANIA

POLYMER MEMBRANES WITH PLANT EXTRACTS FOR REMOVAL OF DYES FROM WASTEWATERS

CAPRARESCU Simona¹, RADU Anita-Laura², PURCAR Violeta², PETCU Cristian², IANCHIS Raluca², ALEXANDRESCU Elvira², SARBU Andrei², NISTOR Cristina Lavinia², MIRON Alexandra Raluca³, ION-EBRASU Daniela⁴, COJOCARU Anca¹

¹"Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Calea Grivitei, no. 132, P.O. 010737, Bucharest, Romania

²National Research and Development Institute for Chemistry and Petrochemistry - ICECHIM, Polymer Department, Splaiul Independentei, no. 202, P.O. 060021, Bucharest, Romania

³"Politehnica" University of Bucharest Faculty of Applied Chemistry and Materials Science, Analytical Chemistry and Environmental Engineering Department, Calea Grivitei no. 132, P.O. 010737, Bucharest, Romania

⁴National Research & Development Institute for Cryogenics and Isotopic Technologies-ICSI-Rm. Valcea, P.O. Box Raureni 7, 240050 Ramnicu Valcea, Romania

THERMAL, MECHANICAL AND MORPHOLOGICAL CHARACTERIZATION OF PHA/BACTERIAL CELLULOSE COMPOSITES

CHIULAN Ioana¹, PANAITESCU Denis Mihaela¹, FRONE Adriana Nicoleta¹, NICOLAE Cristian Andi¹, SPĂTARU Cătălin Ilie¹, LUPESCU Irina², CĂȘĂRICĂ Angela²

¹National R&D Institute for Chemistry and Petrochemistry-ICECHIM, 060021 Bucharest, Romania

²National R&D Institute for Chemical Pharmaceutical, 031299 Bucharest, Romania

MELT RHEOLOGY IN CONECTION WITH TENSILE EXTENSION AND TENSILE STRESS AS METHOD TO SELECT OPTIMUM STARCH FORMULATION FOR THERMOFORMING

Dimonie Doina¹, Dimonie Mihai¹, Musat Miruna¹, Anton Liliana¹, Damian Celina Maria², Trusca Roxana³, Vasile Eugeniu³, Rapa Maria⁴

¹The National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Splaiul Independentei, Bucharest, Romania; ²Politehnica University of Bucharest, Advanced Polymer Materials Group, 1-7 Gh. Polizu street, Bucharest, Romania; ³Metav Research and Development SRL31 C.A. Rosetti, Bucharest, Romania

⁴The Research Institute of Organic Auxiliary Products ICPAO, 8 Carpati, Medias, Sibiu County, Romania

RELEASE PROFILES OF PEFLOXACIN FROM MESOPOROUS MATERIALS

DEACONU Mihaela^{a,b}, PINTILIE Lucia^b, GUDOVAN Dragoș^a, MIHAIESCU Dan Eduard^a

^aUniversity "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh Polizu Street, 011061 Bucharest, Romania; ^bNational Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 031299 Bucharest, Romania

CONTROLLING THE MACROMOLECULAR MISCIBILITY AS METHOD TO ENHANCE THE BIODEGRADABILITY OF STARCH BASED RENEWABLE MATERIALS

Dimonie Doina¹, Musat Miruna¹, Anton Liliana¹, Jecu Luiza¹, Raut Iuliana¹, Dimonie Mihai¹, Trusca Roxana², Mihai Anastasescu³, Stoica Rusandica¹, Eugeniu Vasile², Socoteanu Radu³, Patrizia Cinelli⁴

¹The National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Splaiul Independentei, Bucharest, Romania; ²Metav Research and Development SRL, 31 C.A. Rosetti, Bucharest, ³"Ilie Murgulescu" Institute of Physical Chemistry of Romanian Academy, 202 Splaiul Independentei, Bucharest, Romania;

⁴National Research Council, Institute of Chemical Physical Process UOS Pisa, Via Moruzzi 1, 56124 Pisa, Italy

CHARACTERIZATION OF INSULATING MATERIALS USED IN ROTATING ELECTRICAL MACHINES

DULAMA Ioana Daniela¹, BUCURICA Ioan Alin¹, POPESCU V. Ion^{2,3,4}, TEODORESCU Sofia¹, STIRBESCU Raluca¹, VARATICEANU Bogdan⁵, TELIPAN Gabriela⁶

¹Valahia University of Targoviste, 130004 Targoviste, Romania; ²Valahia University of Targoviste, Faculty of Sciences and Arts, 130004 Targoviste, Romania; ³Horia Hulubei National Institute for R & D in Physics and Nuclear Engineering, 077125 Magurele, Romania; ⁴Academy of Romanian Scientists, 050094 Bucharest, Romania.

⁵ICPE, Servomotors Department, 030138 Bucharest, Romania; ⁶National Institute for R & D in Electrical Engineering ICPE-CA, Micro and Nanoelectrotechnology Department, 030138 Bucharest, Romania.

TEXTURAL PROPERTIES OF MESOPOROUS SILICA SUPPORTED KEGGIN-TYPE HETEROPOLYACID

GANEA Rodica¹, VELEA Sanda¹, BOMBOȘ Dorin², VASILIEVICI Gabriel¹, STOICA Rusandica¹

¹National Research and Development Institute for Chemical and Petrochemical –ICECHIM Splaiul Independentei, no 202, sector 6, Bucharest, Romania;

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SEBS-GRAPHITE COMPOSITES: OBTAINING AND MORPHOLOGICAL CHARACTERIZATION

R. M. Grigorescu¹, D.M. Panaitescu¹, C. Damian², P. Ghioca¹, L. Iancu¹, B. Spurcaci¹

¹ National Institute for Research and Development in Chemistry and Petrochemistry – ICECHIM Bucharest

² University “POLITEHNICA” Bucharest, Faculty of Applied Chemistry and Materials Science, Department Bioresources and Polymer Science

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IMPROVING BIOCOMPATIBILITY PROPERTIES OF MEDICAL POLYMERIC MATERIALS BY USING SILVER NANOPARTICLES

GROSU Elena¹, BALOTESCU Carmen², FICAI Anton³, RAPA Maria¹, SOMESAN Maria¹, JECU Luiza⁴

¹ SC ICPE Bistrita SA, Parcului Street, nr. 7, 420035, Bistrita, Bistrita-Nasaud county, Romania; ²University of Bucharest, Regina Elisabeta Blv., 4-12, Bucharest, 030018, Romania; ³University POLITEHNICA from Bucharest, Faculty of Applied Chemistry and Materials Sciences, 313, Splaiul Independentei, Romania; ⁴National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, Spl. Independentei 202, 060021, Bucharest

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PREPARATION, CHARACTERIZATION AND APPLICATION OF MODIFIED COMMERCIAL ORGANOCLAY POLYMER MEMBRANES FOR REMOVAL OF INDIGO CARMINE

CAPRARESCU Simona¹, IANCHIS Raluca², RADU Anita-Laura², PURCAR Violeta², ALEXANDRESCU Elvira², SARBU Andrei², MIRON Alexandra Raluca³, VAIREANU Danut Ionel¹, COJOCARU Anca¹, MAIOR Ioana¹, CIOBOTARU Ioana Alina¹

¹”Politehnica” University of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Calea Grivitei, no. 132, P.O. 010737, Bucharest, Romania

²National Research and Development Institute for Chemistry and Petrochemistry - ICECHIM, Polymer Department, Splaiul Independentei, no. 202, P.O. 060021, Bucharest, Romania

³”Politehnica” University of Bucharest Faculty of Applied Chemistry and Materials Science, Analytical Chemistry and Environmental Engineering Department, Calea Grivitei no. 132, P.O. 010737, Bucharest, Romania

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SMART HYBRID BIOMIMETIC COATED TITANIUM BIOALLOY IN VITRO CELLULAR RESPOSE

ICRIVERZI Madalina¹, SIMA Livia¹, DUMITRESCU Nicoleta², MARASCU Valentina², DINCA Valentina², ROSEANU Anca¹

¹Institute of Biochemistry of the Romanian Academy, 296 Splaiul Independentei, 060031, Bucharest, Romania

²National Institute for Lasers, Plasma, and Radiation Physics, Magurele RO-077125, Romania

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NEW SYSTEMS OF CARRIERS LOADED WITH CARROT EXTRACT IN VEGETABLE OILS

IONESCU (BORDEI) Natalita^{1,2}, LACATUSU Ioana¹, BADEA Nicoleta¹, POPESCU Mariana², MEGHEA Aurelia¹

¹Faculty of Applied Chemistry and Materials Science, University POLITEHNICA of Bucharest, Polizu Street No 1, 011061, Bucharest, Romania; ²S.C. Hofigal Export -Import S.A. – 2 Intrarea Serelor str., sector 4, 042124, Bucharest, Romania

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MOLECULARLY IMPRINTED POLYMERS OBTAINED BY WET PHASE INVERSION FOR SEPARATION AND SENSING

Tanta-Verona Iordache¹, Ana-Mihaela Florea^{1,2}, Steluta Apostol¹, Anita-Laura Radu¹, Anamaria Zaharia¹, Violeta Purcar¹, Catherine Branger³, Hugues Brisset³, Andrei Sarbu¹

¹The National Research & Development Institute for Chemistry and Petrochemistry-ICECHIM, Spl. Independentei 202, 060021, Bucharest, Romania; ²POLITEHNICA University of Bucharest, Faculty of Applied Chemistry and Materials Science, Polizu 1-7, 011061, Bucharest, Romania; ³Université du Sud Toulon-Var-ISITV, Laboratoire MAPIEM-EA 4323, La Valette du Var, France

S3 – P - 16

EFFECT OF CARBON NANOTUBES ON THEIR PROPERTIES EPOXY MATRIX

LADANIUC Magdalena Adriana, DUMITRACHE Liviu, GABOR Raluca, SANDU Teodor, NICOLAE Cristian

National Research-Development Institute for Chemistry and Petrochemistry-ICECHIM, Splaiul Independentei 202-6, PO Box 174/35, 060021 - Bucharest, Romania

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GRAPHENE AS CATALYST SUPPORT FOR FUEL CELL APPLICATIONS

Adriana Marinoiu¹, Constantin Teodorescu², Mircea Raceanu¹, Irina Petreanu¹, Claudia Sisu¹, Mihai Varlam¹

¹National RD Institute for Cryogenics and Isotopic Technologies- ICIT, 4 Uzinei St., Rm Valcea, Romania, e-mail: adriateodora@yahoo.com; ²Research Center OLTCHIM SA, Rm Valcea

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NICKEL BASE CATALYSTS AS DUAL FUNCTION MATERIALS FOR CO₂ CONVERSION TO METHANE

Adriana Marinoiu¹, Tudor Popescu², Ioan Iordache¹, Claudia Cobzaru³, Corina Cernatescu³

¹National RD Institute for Cryogenics and Isotopic Technologies- ICIT, 4 Uzinei St., Rm Valcea, Romania, e-mail:

adriana.marinoiu@icsi.ro; ²COMPACT Industrial S.R.L., Aleea Emil Botta, Nr. 4, Bl. M104, Sector 3, Bucharest
³“Gheorghe Asachi” Technical University of Iași, Faculty of Chemical Engineering and Environmental Protection D. Mangeron, 71, 70050, Romania

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OBTAINING AND CHARACTERIZATION OF NEW CARBAZOLE-CONTAINING AZOPOLYMER

Alexei MESHALKIN

Institute of Applied Physics of Academy of Sciences of Moldova

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ASSESSMENT OF THE CONCENTRATION OF Ag, Au AND Cu FROM COLLOIDAL SUSPENSIONS AND POWDERS FOR STERILE BANDAGES BY THE FAAS METHOD

NEAGU Eleonora-Ana, CONSTANTIN Ionuț

National Institute of Research - Development for Nonferrous and Rare Metals - IMNR

Biruinței 102 Blvd. Pantelimon Ilfov, ROMANIA

S3 – P - 21

COMPOSITE PROTON EXCHANGE MEMBRANE FROM SULFONATED POLY(PHENYLENE OXIDE) AND SILICA NANOPARTICLES FORMED IN SITU - PREPARATION AND CHARACTERIZATION

Irina Petreanu¹, Adriana Marinoiu¹, Claudia Sisu¹, Mihai Varlam¹, Radu Claudiu Fierascu², Paul Stanescu³, Mircea Teodorescu³

¹National R&D Institute for Cryogenics and Isotopic Technologies- ICSI Ramnicu Valcea, 4 Uzinei St., Rm Valcea, Romania; ²The National Institute for R & D in Chemistry and Petrochemistry ICCHIM, 202 Spl. Independentei 060021; ³University Politehnica of Bucharest, Faculty of Material Science and Engineering, No. 1-7, Polizu St. 011061, building block L 015, Bucharest, Romania

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STUDIES ON COMPOSITE BIOMATERIALS OBTAINED BY POWDER METALLURGY

Aurora Anca POINESCU⁽¹⁾, Rodica Mariana ION^(1,2)

(1) *Valahia University of Targoviste*

(2) *ICECHIM, Bucharest, Analytical Department, 202 Splaiul Independentei, Bucharest-060021, Romania;*

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CHARACTERIZATION OF RECYCLED POLYPROPYLENE BLENDS OBTAINED BY MELT ALLOYING WITH STYRENE BLOCK COPOLYMERS

RÂPĂ Maria¹, GROSU Elena¹, GHIOCA Paul Nicolae², IANCU Lorena², SPURCACIU Bogdan², GÂRDU Radița³, PICA Alexandra³, CINCU Corneliu³, MATEI Ecaterina⁴, BERBECARU Constantin Andrei⁴

¹S.C. ICPAO S.A., 8 Carpati, 551022 Medias, Sibiu, Romania; ²INCDP-ICECHIM, 202 Spl. Independentei, 060021 Bucharest, Romania; ³S.C. ICAA S.A., 49 A Theodor Pallady Blv, 032258, Bucharest, Romania; ⁴POLITEHNICA UNIVERSITY of BUCHAREST, Center for Research and Eco - Metallurgical Expertise, 313 Spl. Independentei, 060042 Bucharest, Romania

S3 – P - 24

ESTIMATION OF THE SENSITIVITY AT CHANGING OF WORKING PARAMETERS AS METHOD TO FIND THE WINDOW OF MELT PROCESSING CONDITIONS FOR SOME NEW BIODEGRADABLE MATERIALS

DIMONIE Doina¹, MUȘAT Miruna¹, VASILE Eugeniu², TRUȘCĂ Roxana², ANTON Liliana¹, DAMIAN Celina³, DIMONIE Mihai¹, RÂPĂ Maria⁴

¹The National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Splaiul Independentei, Bucharest, Romania; ²Metav Research and Development SRL, 31 C.A. Rosetti, Bucharest, Romania; ³University Politehnica of Bucharest, Department of Bioresources and Polymer Science, 1-7 Polizu, 011061 Bucharest, Romania; ⁴The Research Institute of Organic Auxiliary Products ICPAO, 8 Carpati, Medias, Sibiu County, Romania

S3 – P - 25

INVESTIGATION OF POLYMER NANOCOMPOSITES WITH RED MUD CONTENT PRODUCTION PROCESS

SANDU Teodor¹, SÂRBU Andrei¹, ZĂVOIANU Rodica², BRADU Corina³, FLOREA Mihaela², SÂRBU Liliana¹, BACALUM Fănică¹, LADANIUC Magdalena Adriana¹, RADU Anita Laura¹, APOSTOL Steluța¹, PERRIN Francois Xavier⁴

⁽¹⁾National Research - Development Institute for Chemistry and Petrochemistry-INCDCP-ICECHIM, Splaiul Independentei 202, Bucharest 060021, Romania; ⁽²⁾ Faculty of Chemistry, University of Bucharest, Mihail

S3 – P - 26

MULTIFUNCTIONAL HYBRID MATERIAL FOR WASTEWATER TREATMENT

Segneanu A.E.,¹ Berki D.,² Grozescu I.,^{1,2} Damian D.^{1,2}

¹National Institute of R&D for Electrochemistry and Condensed Matter INCEMC Timisoara

²University Politehnica Timisoara

S3 – P - 27

SPECTROPHOTOMETRIC METHODS FOR ESTIMATION OF MELATONIN AND VITAMIN C FROM THE COMBINED CAPSULE DOSAGE FORM

Stefania Simionescu^{1,2}, Rodica-Mariana Ion^{3,4}

¹"Polytechnica" University of Bucharest, Romania; ²National Agency of Medicines and Medical Devices, Bucharest

³ICECHIM, Nanomedicine Research Group, Bucharest, Romania; ⁴Valahia University, Materials Engineering Department, Targoviste, Romania.

S3 – P - 28

NEW MATERIALS BASED ON STYRENE-ISOPRENE ELASTOMERS, MODIFIED WITH CYCLOOCTENE BY GRAFTING VIA RING-OPENING METATHESIS POLYMERIZATION (ROMP)

Spurcaci Bogdan*, Ghioca Paul, Iancu Lorena, Bujanca Ioneta,

Grigorescu Ramona, Nicolae Cristian-Andi, Gabor Raluca, Raditoiu Valentin.

National Institute for Research & Development in Chemistry and Petrochemistry,

202 Spl. Independentei, 060021, Bucharest, Romania

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SYNTHESIS OF STYRENE-ISOPRENE BLOCK-COPOLYMERS MODIFIED WITH FATTY ACID ESTERS BY CROSS METATHESIS

Spurcaci Bogdan*, Iancu Lorena, Ghioca Paul, Bujanca Ioneta,

Grigorescu Ramona, Nicolae Cristian-Andi, Gabor Raluca, Raditoiu Valentin.

National Institute for Research & Development in Chemistry and Petrochemistry,

202 Spl. Independentei, 060021, Bucharest, Romania

S3 – P - 30

INTERACTION BETWEEN VARIOUS NANOPARTICLES AND Cr(VI) FROM WASTEWATER

Sofia TEODORESCU¹, Rodica-Mariana ION^{1,2}, Ioana-Daniela DULAMĂ¹,

Raluca-Maria ȘTIRBESCU¹, Alin-Ioan BUCURICĂ¹

¹Institutul de Cercetare Științifică și Tehnologică Multidisciplinară al Universitatii Valahia din Targoviste;

²ICECHIM, Bucharest, Romania

S3 – P - 31

PARAMETERS INFLUENCING THE STRUCTURATION LEVEL OF SOME NEW RENEWABLE MATERIALS

Dimonie Doina¹, Musat Miruna¹, Vasile Eugeniu², Trusca Roxana², Dimonie Mihai¹, Anton Liliana¹, Celina Damian³, Rapa Maria⁴

¹The National Institute for Research & Development in Chemistry and Petrochemistry - [ICECHIM](#), 202 Splaiul Independentei, Bucharest, Romania; ²Metav Research and Development SRL, 31 C.A. Rosetti, Bucharest, Romania; ³Polytechnic University of Bucharest, Faculty of Applied Chemistry and Materials Science, 313 Splaiul Independentei, Bucharest, Romania; ⁴The Research Institute of Organic Auxiliary Products ICPAO, 8 Carpati, Medias, Sibiu County, Romania

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POLYPROPYLENE/ ALUMINOSILICATE COMPOSITES PROPERTIES

Vuluga Zina¹, Paceagiu Jenica², Oancea Florin¹, Iorga Michaela¹, Jecu Luiza¹, Apostol Valentin³

¹National Research and Development Institute for Chemistry and Petrochemistry-ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania; ²CEPROCIM S.A., 6 Preciziei, 062203, Bucharest, Romania; ³POLITEHNICA University from Bucharest

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INFLUENCE OF THE ELECTROMAGNETIC IRRADIATION PRETREATMENT ON THE SEPARATION PROCESS IN WET MEDIUM OF THE MESOPOROUS SILICA WITH LOW IRON CONTENT FROM SERPENTINITE MINERALS

MARA Eleonora Luminita¹, VELEA Teodor¹, MOISE Georgiana¹, GRADINARU Andreea¹, SARBU Andrei², MIHAIESCU Daniel¹, CAPOTA Petre¹, DRAGUT Valentin¹, STOICIU Florin¹, RADU Laura-Anita², FRUTH Victor³, MUNTEANU Cornel³

¹National Research and Development Institute for Nonferrous and Rare Metals IMNR, 102 Biruintei street, Pantelimon, Ilfov, Romania; ²National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independentei, Bucharest, Romania; ³„Ilie Murgulescu” Institute of Physical Chemistry of the Romanian Academy of Science, 202 Splaiul Independentei street, Bucharest, Romania, phone:0040213188595,



29 octombrie 2015

Sectiunea 5 – Sectiunea Doctoranzilor

COMUNICARI ORALE - ora 14:00 – Sala Consiliu (etajul 1)

Moderatori:

Prof. Vasile PÂRVULESCU

Dr. Ing. Sanda VELEA

S5 – O - 1

CONTENT ANALYSIS OF METALS AND PERSISTENT ORGANIC POLLUTANTS IN SEDIMENTS FROM THE DANUBE BETWEEN CALARASI AND BRAILA SECTION

CODESCU Maria Cristina

Polytechnic University, Faculty of Applied Chemistry and Materials Science

S5 – O - 2

SYNTHESIS AND FLUORESCENCE OF NEW 3-BIPHENYLPYRROLO[1,2-C]PIRIMIDINES TATU Marian-Laurentiu^a, GEORGESCU Emilian^b, BOSCORNEA Cristian^c, POPA Marcel-Mirel^{d,e}, UNGUREANU Eleonora-Mihaela^a

^aDepartment of Inorganic Chemistry, Physical Chemistry and Electrochemistry, University "Politehnica" of Bucharest, Gh. Polizu 1-7, 011061, Bucharest, Romania; ^bResearch Center Oltchim, Uzinei Street 1, 240050, Ramnicu Valcea, Romania; ^cDepartment of Bioresources and Polymer Science University "Politehnica" of Bucharest, Gh. Polizu 1-7, 011061, Bucharest, Romania; ^dRomanian Academy, Institute of Organic Chemistry "C. D. Nenitzescu", Spl. Independentei, 202B, 060023-Bucharest, 35 P.O. Box 108, Romania; ^eDepartment of Organic Chemistry, University "Politehnica" of Bucharest, Gh. Polizu 1-7, 011061, Bucharest, Romania

S5 – O - 3

EXTRACTION AND FRACTIONATION OF PROTEINS FROM „PHORPHYRIDIUM CRUENTUM” BY ULTRAFILTRATION

TRICĂ Bogdan^{1,2}, DJELVEH Gholamreza³, MARCATI Alain³, DOBRE Tănase², URSU Alina-Violeta³,
PETCU Cristian¹, PURCAR Violeta¹, NIȚU Sabina¹, ȘOMOCHI Raluca¹

¹ R&D National Institute for Chemistry and Petrochemistry, Spl. Independentei 202, 6th district, 060021, Bucharest, Romania; ² "University POLITEHNICA" of Bucharest, Faculty of Applied Chemistry and Materials Science, Gh. Polizu 1-7, Bucharest, Romania; ³ Institut Pascal - Génie des Procédés Energétique et Biosystèmes, 24 Avenue de Landais, 63171 Aubière, France

SESIUNE POSTERE – S5 – SALA CONSILIU(Etaj 1)

S5 – P - 1

SYNTHESIS AND APPLICATION OF SOME AZOIC DYES

MOALE Florentina Catalina¹, NUTA Alexandrina², SORESCU Ana-Alexandra^{2,3}, AMARIUTEI Viorica²

¹University Politehnica of Bucharest, 313 Splaiul Independentei Street, district 6, 060042, Bucharest, Romania

²National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, 202 Independence Street, district 6, 060021, Bucharest, Romania

³ Valahia University, Materials Dept., 13th Sinaia Alley, 130004, Targoviste, Romania

S5 – P - 2

THE INTERPHASE TRANSFER BALANCES OF INDOLE-3-ACETIC ACID

Ecaterina Anca Șerban, Cristina Monica Mirea, Ioana Diaconu*, Elena Ruse, Gheorghe Nechifor

University Politehnica Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Analytical Chemistry and Environmental Engineering, no 1-7 Polizu Street 7000 Bucharest, Romania

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THE EFFECT OF DEXTRAN ADDITION UPON THE THERMOGELATION AND DRUG RELEASE PROPERTIES OF POLY(N-ISOPROPYLACRYLAMIDE) INJECTABLE HYDROGELS

Maria ANDREI, Gabriel TURTURICĂ, Paul O. STĂNESCU, Mircea TEODORESCU*

Department of Bioresources and Polymer Science, Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest, 1-7 Gh. Polizu Street, 011061 Bucharest, Romania

S5 – P - 4

SYNTHESIS AND CHARACTERIZATION OF NEW MIXED-LIGAND COMPLEXES OF 5-HYDROXYFLAVONE AND 1,10-PHENANTHROLINE WITH SOME LANTHANIDE IONS

Alexandra-Cristina Ticea¹, Mihaela Badea², Rodica Olar², Stefania-Felicia Barbuceanu³, George Mihai Nitulescu⁴, Valentina Uivarosi¹

¹Department of General and Inorganic Chemistry, Faculty of Pharmacy, Carol Davila University of Medicine and Pharmacy, 6 Traian Vuia Str., 020956, Bucharest, Romania; ²Department of Inorganic Chemistry, Faculty of Chemistry, University of Bucharest, 90-92 Panduri Str., 050663, Bucharest Romania; ³Department of Organic Chemistry, Faculty of Pharmacy, Carol Davila University of Medicine and Pharmacy, 6 Traian Vuia Str., 020956, Bucharest, Romania; ⁴Department of Pharmaceutical Chemistry, "Carol Davila" University of Medicine and Pharmacy, Faculty of Pharmacy, 6 Traian Vuia Str., 020956, Bucharest, Romania

S5 – P - 5

BENEFITS AND OUTCOME OF CHEMOTHERAPY IN MEDULLOBLASTOMA AT BORDERLINE AGE IN PROTOCOLS OF ONCOLOGIC TREATMENT. CASE REPORT AND LITERATURE REVIEW

Oana VOINEA, Catalin COCOSILA, M. Sajin, M. Costache, A.Dumitru, Mihai Gheorghe LISIEVICI

Emergency Clinical Hospital Bagdasar-Arseni Bucuresti, University of Medicine and Pharmacy Carol Davila Bucharest, Bucharest University Hospital of Emergencies

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AZO-DYES FOR COLOURING FOODSTUFFS OF ANIMAL AND PLANT SOURCES

NUTA Alexandrina², SORESCU Ana-Alexandra^{1,2}, RADITOIU Valentin²

¹Valahia University, Materials Dept., 13th Sinaia Alley, Targoviste, 130004, Romania
²National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, 202 Splaiul Independentei Street, district 6, Bucharest, 060021, Romania

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SUBSTITUTED PHTHALOCYANINE DERIVATIVES – MATERIALS WITH POTENTIAL PHOTOLENTHIC PROPERTIES

SORESCU Ana-Alexandra^{1,2}, NUTA Alexandrina², ION Rodica-Mariana^{1,2}, DONCEA Sanda-Maria², RADITOIU Valentin²

¹Valahia University, Materials Dept., 13th Sinaia Alley, 130004, Targoviste, Romania
²National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, 202 Splaiul Independentei Street, district 6, 060021, Bucharest, Romania

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IDENTIFICATION, STRUCTURAL AND ARCHAEOMETRIC CHARACTERIZATION OF A VIOLIN FROM THE SIXTH CENTURY, COPY MODEL ANTONIUS STRADIVARIUS 1713

Marius PADURARU¹, Ovidiu TANASA², Daniel POTOLINCA¹, Viorica VASILACHE³, Ion SANDU³

¹Alexandru Ioan Cuza University of Iasi, Faculty of Geography and Geology, 22 Blvd Carol I, Corp G-Demisol, 700506, Iasi, Romania, padurarumrs@yahoo.com; ²General Inspectorate of Romanian Border Police, 42C Geniului Avenue, District 6, 060116, Bucharest, Romania, pfr@igpf.ro; ³Alexandru Ioan Cuza University of Iasi, Arheoinvest Interdisciplinary Platform, 22 Blvd Carol I, Corp G-Demisol, 700506, Iasi, Romania;

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IDENTIFICATION AND CHARACTERIZATION OF THE ILLICIT ARCHEOMETRIC GOODS AT THE CROSSING BORDER

Daniel POTOLINCA¹, Ioan Cristinel NEGRU², Marius PADURARU¹, Viorica VASILACHE³, Ion SANDU³

¹Alexandru Ioan Cuza University of Iasi, Faculty of Geography and Geology, 22 Blvd Carol I, Corp G-Demisol, 700506, Iasi, Romania, daniel.potolinca@yahoo.com; ²Iasi Border Police Territorial Inspectorate, 3-5 George Cojbuca str. Iasi, Romania; ³Alexandru Ioan Cuza University of Iasi, Arheoinvest Interdisciplinary Platform, 22 Blvd Carol I, Corp G-Demisol, 700506, Iasi, Romania;

S5 – P - 10

DEVELOPMENT OF Ba_{0.5}Sr_{0.5}TiO₃ (BST) BASED THIN FILMS BY HYDROTHERMAL – ELECTROCHEMICAL PROCESSES

Cosmin Petrică¹, Ecaterina Andronescu², Roxana Piticescu¹, Eugeniu Vasile²

¹National R&D Institute for Non-ferrous and Rare Metals, Pantelimon, Ilfov, Romania
²University Politehnica of Bucharest, Splaiul Independentei nr. 313, sector 6, Bucuresti, Romania

S5 – P - 11

THERMOGRAVIMETRIC ANALYSIS AND ELECTRON MICROSCOPY SEM FOR GRAPHITE FILMS DEPOSITED BY THE ELECTRICAL DISCHARGES IN PULSE METHOD WITH GRAPHITE CATHODE METHOD

MARIN Laurentiu¹, TOPALA Pavel², Marin Catalina Daniela¹, Vasilevici Gabriel¹

¹National Research and Development Institute for Chemical and Petrochemical – ICECHIM Splaiul Independentei, no 202, sector 6, Bucharest, Romania; ²Univ. de Stat Alecu Russo Balti, Str. Puskin, Rep. Moldova

S5 – P - 12

HYBRID NANOSTRUCTURED THIN FILM DEPOSITION BY VACUUM THERMAL EVAPORATION AS POTENTIAL METHOD IN SENSORS FABRICATION

SOBETKII Arcadii, RUSTI Cristina, PITICESCU Radu, BOGDANESCU Cristian
INCDMNR, Bd. Biruinței, nr. 102, Pantelimon, Ilfov

S5 – P - 13

COLD PROCESS FOR OIL SAPONIFICATION

Mariana Popescu, Mălina Deșliu-Avram

Research and Development National Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest

S5 – P - 14

VALIDATION OF AN ANALYTICAL METHOD FOR THE DETERMINATION OF ANTIMONY IN DRINKING WATER BY INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRY, ICP-OES

Luiza CAPRA¹, Mihaela MANOLACHE¹, Alina Catrinel ION²

¹*National R&D Institute for Chemistry and Petrochemistry – ICECHIM, 202 Splaiul Independentei St., 060021, Bucharest, Romania, E-mail: laborator.analize@icechim.ro*

²*University POLITEHNICA of Bucharest, 313, Splaiul Independentei St. 060042, Romania; E-mail: ac_ion@yahoo.com*

S5 – P - 15

KERATINOPHYLIC FUNGI ISOLATED FROM ANIMALS

CĂLIN Mariana^{1,2}, DRĂCEA Olguța³, RĂUT Iuliana^{1,2}, VASILESCU Gelu¹, JECU Luiza¹, LAZĂR Veronica²

^[1] *INCDPC-ICECHIM, Spl. Independentei 202, Bucharest;* ^[2] *University of Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest;* ^[3] *The National Institute of Research & Development for Microbiology and Immunology “Cantacuzino”, 103 Independentei Spl. 050096, Bucharest, Romania;*

S5 – P - 16

TECHNOLOGICAL PROCESS OF PRODUCING SOIL INOCULANTS USING ENTOMOPATHOGENIC FUNGI AS ACTIVE INGREDIENTS

Mihaela Monica DINU, Ana-Cristina FĂTU

Research –Development Institute for Plant Protection, Ion Ionescu de la Brad Bd., no.8, Bucharest

S5 – P - 17

TIMELINE EVOLUTION OF MAIZE AND WHEAT PATHOGENIC FUNGI DURING THE STORAGE PERIOD

Roxana DUDOIU^{1,2*}, Carmen LUPU¹, Vasile JINGA¹, Stelica CRISTEA², Florentin CHITORAN³

¹*Research Development Institute for Plant Protection, Bucharest;* ²*University of Agronomic Science and Veterinary Medicine, Bucharest;* ³*S.C. AGROTEHNIC Păulești, Prahova*

S5 – P - 18

SYNTHESIS OF BIODEGRADABLE GELATIN FILMS PLASTICIZED BY GLICEROL, APPLICABLE IN CONTROLLED RELEASE.

T. GHERMAN^{a,b}, Lucica Stănuleț^a, Orza Anamaria^a, Molea Andreia^b

^a*Research Institute for Organic Auxiliary Products, 8 Carpati Street, 551022 Medias;* ^b*Technical University of Cluj-Napoca, Department of Environmental and Materials Engineering, Bd. Muncii, 103-105, Cluj-Napoca, Cluj, Romania*

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OBTINEREA 5-HIDROXIMETIL- FURFURALULUI DIN D-FRUCTOZA PRIN CATALIZA HETEROGENA SI HOMOGENA

BEDŐ Dávid CS, FODOR Cristian CSA, BOMBOS Dorin CSI

Institutul de Cercetari Produse Auxiliare Organice, Str. Carpati nr 8, Medias, jud Sibiu, 551022



30 octombrie 2015

MASA ROTUNDA: SA INOVAM ASADAR!

Ora 09:00 - Sala Festivitati(Etaj 1)

WORKSHOP

**METHODOLOGY OF TESTING MYCOTOXINS FROM STORED GRAIN USING MODERN
ANALYTICAL TECHNIQUES**

Ora 11:00 - Biblioteca(Etaj 2)

**MASA ROTUNDA: PROMOVAREA BIOECONOMIEI CIRCULARE ROMANESTEI PRIN
FABRICATIA PRODUSELOR BIODEGRADABILE CU VIATA SCURTA, REALIZABILE PRIN
APLICAREA TEHNOLOGIILOR ICECHIM**

Ora: 10:00 - Sala Protocol(Etaj 1)

INCHIDEREA FESTIVA – PREMIEREA

Ora 13:00 – Sala Festivitati