



PROGRAM
30 octombrie 2014

Sala festivitatii
ora 9:15

Plenary - 1

INCDCP -ICECHIM-ACHIEVEMENTS AND PROSPECTS

Sanda VELEA

INCDCP-ICECHIM, 202 Splaiul Independentei, Bucharest

Plenary - 2

**COSTIN D. NENITESCU FONDATORUL SCOLII ROMANESTI DE
CHIMIE ORGANICA**

Sorin I. ROSCA

Universitatea "Politehnica" Bucuresti

Plenary - 3

**CHEMICAL ENGINEERING ASPECTS IN SYNTHESIS AND USE OF BACTERIAL
CELLULOSE**

Tanase DOBRE, Anicuta STOICA, Marta STROESCU

University Politehnica of Bucharest, Department of Chemical and Biochemical Engineering

Plenary - 4

ROMANIAN EXPERIENCE ON NANOMATERIALS FOR CULTURAL HERITAGE

Rodica-Mariana ION

ICECHIM, Bucharest, Romania

Plenary - 5

**SCANNING ELECTROCHEMICAL MICROSCOPY (SECM); A STEP IN
DEVELOPMENT STUDYING THE MICROWORLD**

Géza NAGY^{1,2}, Livia NAGY^B

1.) Department for General and Physical Chemistry, Faculty of Science, University of Pécs, Ifjúság út 6., 7624 Pécs, Hungary, g-nagy@tk.pte.hu,

2.) Szentágotthai János Research Center, University of Pécs, Ifjúság út 20., 7624 Pécs, Hungary

Plenary - 6

**AGRO-BIO-ECONOMY – A ROMANIAN APPROACH FOR CLUSTERING GREEN
CHEMISTRY, BIOTECHNOLOGY AND AGRICULTURAL RESEARCHES**

F. OANCEA¹, A.F. BADIU², M. DONI¹, C.P. CORNEA³, S. VELEA¹, C. PETCU¹

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

2- Academy of Agricultural and Forestry Sciences, Bucharest

3 - University of Agronomic Sciences and Veterinary Medicine, Faculty of Biotechnologies, Bucharest



PROGRAM
30 octombrie 2014

Sectiunea 1 – Bioresurse si bioproduse
(prima parte)

Comunicari orale – ora 14:00 - Sala festivitati (etajul 1)

Moderatori:

Prof. Dr. Ing. Raluca STAN
Dr. Biochim. Florin OANCEA

O - 1

**HALOPHILIC MICROORGANISMS UBIQUITOUS PRODUCING BIOMATERIALS WITH
BIONANOTEHNOLOGICAL POTENTIAL**

Gabriela TEODOSIU, Mugur Cristian STEFANESCU, Doina Maria CIRSTEA

Institute of Biology Bucharest, Romanian Academy, 296 Splaiul Independenței, 060031 Bucharest, P.O. Box 56-53, Romania

O - 2

**VALORISATION OF POLYSACCHARIDES AND PROTEINS FROM DEFATTED
MICROALGAE BIOMASS**

Sanda VELEA, Elena RADU, Daniela STILPEANU, Ana-Maria POPESCU

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

O - 3

**A NEW GREENER SYNTHETIC ROUTE FOR THE SYNTHESIS OF BIO-FURAN TO BE
USED IN THE PRODUCTION OF BALLISTIC PROTECTION EQUIPMENTS**

**Nicoleta PETREA¹, Razvan PETRE¹, Marcel SONU¹, Florentina NEATU², Roxana MARIN²,
Vasile SOMOGHI³**

¹ *Scientific Research Centre for CBRN Defense and Ecology, 225 Oltenitei Road, District 4, 041389, Bucharest*

² *University of Bucharest, Faculty of Chemistry, Department of Organic Chemistry, Biochemistry & Catalysis, 4-12
Regina Elisabeta Av., District 5, 030016, Bucharest*

³ *SC Stimpex SA, 46-48 Nicolae Teclu Street, District 3, 032368, Bucharest*

O - 4

**DEPOLYMERIZATION OF LIGNIN BY SUCCESSIVE PROCESSES OF HYDROLYSIS
AND HYDROGENOLYSIS**

**Sanda VELEA¹, Mihaela BOMBOS¹, Gabriel VASILIEVICI¹, Adrian RADU¹,
Dorin BOMBOS²**

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*

O - 5

**NEW CONTRIBUTIONS TO THE DEVELOPMENT OF CHEMISTRY AND
BIOCHEMISTRY OF GLYCOLIPIDS AND HYDROSOLUBLE GLYCOSIDES**

**Dumitru Petru IGA, Silvia Stefania GITMAN, Florentina DUICA,
Corina Loredana HOTOLEANU (Gutanu)**

University of Bucharest, Faculty for Biology, Splaiul Independentei 95, Bucharest-5, Rumania

OLEAMIDE ANALOGUES: SYNTHESIS AND ELECTROCHEMICAL CHARACTERIZATION

Catalina Cioates NEGUT^{1,2}, Eleonora-Mihaela UNGUREANU², Constantin TANASE¹, Denisa Ioana UDEANU³, Maria MAGANU⁴

¹National Institute for Chemical – Pharmaceutical Research and Development ICCF, Bucharest, Romania
²Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, Bucharest, Romania
³Faculty of Pharmacy, University of Medicine and Pharmacy, Bucharest, Romania
⁴Organic Chemistry Center “C.D.Nenişescu”, Bucharest, Romania

REGIOSELECTIVE REACTIONS ON A BICYCLOOCTANE SKELETON

Constantin TANASE¹, Constantin DRAGHICI², Miron Teodor CAPROIU², Ana COJOCARU¹, Maria MAGANU², Sergiu SHOVA³, Lucia PINTILIE¹, Catalina NEGUT¹, Mihaela DEACONU¹

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²Organic Chemistry Center "C. D. Nenitescu", 202 B Splaiul Independentei, Bucharest 060023, ROMANIA
³Institute of Molecular Chemistry “Petru Poni”, Iasi, ROMANIA

IMOBILIZATION OF MINT ESSENTIAL OIL IN POLYMER MATRIXES

Anca RACOTI^a, Ioan CALINESCU^a, Aurel DIACON^a, Cosmin PINTILIE^b

a. Polytechnic University of Bucharest, Faculty of Applied Chemistry and Material Science, Gh. Polizu, No. 1-7, Sector 1, 011061 Bucharest, b. "Horia Hulubei" National Institute for Physics and Nuclear Engineering, Atomistilor 407, Com. Magurele, Ilfov, cod 077125

MICROENCAPSULATED BIOPESTICIDES

Emil STEPAN¹, Sanda VELEA¹, Elena RADU¹, Elena-Emilia OPRESCU¹, Adrian RADU¹, Carmen GAIDAU², Doru Gabriel EPURE³

National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independents street, Bucharest, Romania, phone: 0040213153299
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SC Probstdorfer Saatzucht Romania SRL., 20 Siriului street, Bucharest, Romania, phone: 0040722224940, fax. 0040212080333, e-mail: doru.epure@agrovetl.ro

**NEW OF SYNTHETIC ORIGIN DRUGS ANTIBACTERIAL
 (PREPARAT ANTIBACTERIAN NOU DE ORIGINE SINTETICA)**

Viorel PRISACARI, S. BURACIOV, I. PRISACARU

Universitatea de Stat de Medicina si Farmacie „Nicolae Testemitanu”
 din Republica Moldova, Chisinau

INFLUENCE OF ELECTROMAGNETIC RADIATION ON *Nannochloris* sp MICROALGAE GROWTH

Ana-Maria POPESCU^a, Ioan CALINESCU^a, Sanda VELEA^b, Elena RADU^b

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



PROGRAM
31 octombrie 2014

Sectiunea 1 – Bioresurse si bioproduse
(a doua parte)

Comunicari orale – ora 10:30 - Sala “Protocol” (etajul 1)

Moderatori:

Dr. Viorica TAMAS

Dr. Chim. Virgil BADESCU

S 1 - O - 1

**METALLOKINETIC OF VANADIUM, ADMINISTERED AS A VANADYL CHRYSIN
COMPLEX**

Bruno-Stefan VELESCU¹, Valentina ANUTA¹, Ecaterina IONESCU¹, Valentina UIVAROSI¹

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

S 1 - O - 2

**INDIGENOUS *URTICA DIOICA* ROOT: A STUDY ON THE CONTENT OF ACTIVE
SUBSTANCES AS A PROMISING PHYTOTHERAPIC ALTERNATIVE TO *SERENOA
REPENS* AND OTHER EXOTIC PLANTS FOR TREATING BENIGN PROSTATIC
HYPERPLAZIA SYMPTOMS**

Alexandru SUCIU, Vlad LUNTRARU, Viorica TAMAS

S.C. Hofigal Export Import S.A., Intrarea Serelor nr. 2, sector 4, Bucharest

S 1 - O - 3

**ANTIOXIDANT EFFECT OF THE EUROPEAN BEECH LEAVES EXTRACT,
BASIS FOR ITS ANTI-AGING AND ANTIBACTERIAL PROPERTIES**

Ioana NICU^{1,2}, Lucia PIRVU¹, Gheorghe STOIAN²

*1. National Institute for Chemical Pharmaceutical Research and Development,
Vitan Avenue 112, Bucharest, Romania*

*2. Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, no. 91-95, SPLAIUL
Independentei, Bucharest, Romania*

S 1 - O - 4

**A NEW TOPICAL PRODUCT CONTAINING GEMODERIVATES WITH ANTISOLAR
PROTECTIVE PROPERTIES**

Anca Daniela RAICIU¹, Denisa MIHELE², Stefan MANEA¹

¹S.C. Hofigal Export -Import S.A. – Intr. Serelor street, no.2, district.4, Bucharest, Romania

*²Universitatea de Medicina si Farmacie «Carol Davila»-Facultatea de Farmacie- Traian Vuia street no. 6, district 2,
Bucharest, Romania*

S 1 - O - 5

**ADVANCED ANALYTICAL METHODS FOR COMPLETE SCREENING OF STEROIDALS
COMPOUNDS**

Adina SEGNEANU¹, Paula SVERA^{1,2}, Ioan GROZESCU^{1,2}, Liviu MOCANU¹

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

²Politehnica University Timisoara

S1-O-6

Carex arenaria – A STUDY OF COMPARATIVE EXTRACTION TECHNIQUES

Daniel DAMIAN^{1,2}, Ioan GROZESCU^{1,2}, Paula SVERA^{1,2}, Adina SEGNEANU¹

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

University Politehnica Timisoara

e_mail: s_adinaelena@yahoo.com

S1-O-7

THE INFLUENCE OF THE EXTRACTION METHOD UPON TANNINS CONTENT AND ANTIOXIDANT ACTIVITY OF *VACCINIUM VITIS IDAEA* LEAFS

Cristina LUNTRARU, Viorica TAMAS, Mihaela NEAGU

¹*S.C. HOFIGAL EXPORT IMPORT S.A., Intrarea Serelor no.2, sector 4, Bucharest, Romania,*

S1-O-8

EVALUATION OF THE OPTIMUM SOLVENT FOR URSOLIC ACID DOSAGE FROM *SALVIA OFFICINALIS*, BY HPLC ANALYSIS

Vlad LUNTRARU, Viorica TAMAS, Alexandru SUCIU

S.C. Hofigal Export Import S.A., Intrarea Serelor Nr. 2, Sector 4, Bucharest

S1-O-9

SODIUM CHLORIDE FOR HEMODIALYSIS SOLUTION

Lucica STANULET, Ancuta TRIFOI, Augustin CRUCEAN, Olimpiu BLAJAN

SC Medisan 2010 SRL, 8 Carpati Street, Medias 551022, Romania

S1-O-10

NATURAL PRODUCT AS BALM AND/OR GEL FOR IMPROVING MUSCLE AND JOINT PAIN

Andreea COZEA, Stefan MANEA, Viorica TAMAS, Natalia CHICU

S.C. Hofigal Export-Import S.A. Intrarea Serelor, Nr 2, Bucuresti, Romania

S1-O-11

NEW COSMETICS FOR A HEALTH AND A BEAUTY SKIN, BASED ON HEMP OIL AND OTHERS PLANT EXTRACTS. MEASUREMENTS OF SAFETY, QUALITY AND EFFICACY THROUGH MODERN METHODS

V. CARABELA, St. MANEA, V. TAMAS, G. ALEXANDRU, M. POPESCU, N. BORDEI*

Hofigal Export Import, Intrarea Serelor, Nr 2, Sector 4, Bucuresti



PROGRAM
30 octombrie 2014

Sectiunea 2 – Ingineria mediului si protectia patrimoniului cultural
Comunicari orale – ora 14:00 - Sala Protocol (etajul 1)

Moderatori:

Prof. Dr. Chim. Rodica Mariana ION
Dr. Ing. Zina VULUGA

O - 1

DETERMINATION OF TOXIC VOLATILES FROM SOLID SAMPLES (POLIMERS, ADHESIVES) BY DISCONTINUOUS GAS EXTRACTION COUPLED WITH GC-FID AND GC-MS TANDEM
Virgil BADESCU

National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM

O - 2

THE CONTRIBUTION OF THE VOLATILE ORGANIC COMPOUNDS EMISSIONS TO THE ENVIRONMENTAL IMPACT

Angelica CALAMAR¹, Marius KOVACS¹, Lorand TOTH¹

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Telefon: +40 254 541621, Fax: +40 254 546 277; E-mail: insemex@insemex.ro*

O - 3

VALUE NORMALISATION FOR POLLUTANTS CONCENTRATION IN GASEOUS EFFLUENTS

Lorand TOTH, Marius KOVACS, Angela CALAMAR, Sorin SIMION

*Institutul National de Cercetare-Dezvoltare pentru Securitate Miniera si Protectie Antiexploziva - INSEMEX Petrosani
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O - 4

QUALITY ASSURANCE FOR EMISSION MONITORING PERFORMED WITH AUTOMATED MEASUREMENT SYSTEMS

Andrei VASILE, Elena BUCUR

*National Research and Development Institute for Industrial Ecology – ECOIND,
71-73, Drumul Podu Dambovitei Street, sector 6, Bucharest, Romania*

O - 5

APPLICATION OF SODIUM ALUMINATE RECOVERED FROM INDUSTRIAL PROCESSES AS COAGULANT FOR THE TREATMENT OF BIOLOGICAL SLUDGE

Mihai STEFANESCU, Ionut CRISTEA, NITOI, Valeriu BADESCU

National Institute for Industrial Ecology - ECOIND, Romania, Bucharest, S 6, Drumul Podu Dambovitei Str, No. 71-73



PROGRAM
30 octombrie 2014

Secțiunea 3 – Materiale multifuncționale și nanocompozite
Comunicari orale – ora 14:00 - Biblioteca (etajul 2)

Moderatori:
Dr. Ing. Dan DONESCU
Dr. Ing. Andrei SARBU

**DESIGNED TITANIUM COATED POLYMERIC SUBSTRATE MICRO-TOPOGRAPHY
FOR BONE TISSUE ENGINEERING**

**Livia E. SIMA¹, Madalina ICRIVEZI¹, Paula FLORIAN¹, K. BOHLEN², E.C. SIRINGIL³,
T. JAGER⁴, K. WASMER³, P. HOFFMANN³, Maria DINESCU⁵, Anca ROSEANU¹,
Valentina DINCA^{3,5}**

¹*Institute of Biochemistry, Romanian Academy, Bucharest, Romania*

²*Crealas GmbH, Thun, Switzerland*

³*Empa, Laboratory for Advanced Materials Processing, Thun, Switzerland Department*

⁴*Empa, Laboratory for Thin Films and Photovoltaics, Dübendorf, Switzerland*

⁵*National Institut for Lasers, Plasma and Radiation Physics, Magurele, Bucharest, Romania*

O - 1

**ASSESSMENT OF THE PERCOLATION THRESHOLD VALUE OF NOVEL
THERMOPLASTIC COMPOSITES BASED ON MIXED MATRICES AND CONDUCTIVE
NANOFILLERS**

Madalina ZANOAGA,^a Yevgen MAMUNYA,^b Fulga TANASA^A

^a*“Petru Poni” Institute of Macromolecular Chemistry, 41A Grigore Ghica Voda Alley, 700487 Iasi, Roumania*

^b*Institute of Macromolecular Chemistry, NAS of Ukraine, 48 Kharkivske chaussee, Kyiv 02160, Ukraine*

O - 2

**MULTIFUNCTIONALIZATION OF THE CROSS-LINKED IONIC POLYMERS
CONTAINING STRONGLY BASIC GROUPS**

Vasile GUTANU

Moldova State University, 60 Mateevici str., MD-2009, Chisinau, Moldova

O - 3

**UPCYCLING INDUSTRIAL WASTE: THERMOPLASTIC GREEN COMPOSITES MADE
OF RECYCLED WOOD CHIPS AND POLYMER WASTE**

Fulga TANASA, Madalina ZANOAGA

“Petru Poni” Institute of Macromolecular Chemistry, 41A Grigore Ghica Voda Alley, 700487 Iasi, Roumania

O - 4

NEW SYNTHESIS METHODS OF ISOTHIOCYANATES

Iacob GUTU

*State University of Moldova, Chisinau, Faculty of Chemistry and Technological Chemistry, 60, A.
Mateevici Str.*

O - 5

O - 6

NEW HYBRID MATERIAL WITH APPLICATION IN WATER TREATMENT
Adina SEGNEANU¹, Daniel DAMIAN^{1,2}, Paulina VLAZAN¹, Liviu MOCANU¹, Ioan GROZESCU^{1,2}

¹National Institute of R&D for Electrochemistry and Condensed Matter INCEMC Timisoara
²Politehnica University Timisoara

O - 7

SIMULANTS OF THE HUMAN BODY FOR BALLISTIC PURPOSES
Teodora ZECHERU¹, Catalin ZAHARIA², Claudiu LAZAROAIE¹, Ciprian SAU¹

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

O - 8

THE INFLUENCE OF PLASMA CHEMICAL TREATMENTS ON THE ACTIVITY OF THE CATALYSTS

Vasile GEORGESCU

Institute of Physical Chemistry "Ilie Murgulescu" of Romanian Academy

O - 9

HYBRID MATERIAL SYNTHESIS BASED ON POLYMER PHOTONIC CRYSTALS CORE AND MAGNETITE PARTICLES SHELL

Edina RUSEN, Aurel DIACON, Alexandra MOCANU

University Politehnica of Bucharest, Department of Bioresources and Polymer Science, 1-7 Gh. Polizu, 011061 Bucharest, Romania

O - 10

TRENDS AND RESEARCHES ON POLYMER-BASED EXPLOSIVES

Teodora ZECHERU^{1,2}, Traian ROTARIU²

¹Scientific Research Center for CBRN Defense and Ecology, 225 Olteniței Sos., 041309 Bucharest, Romania
²Military Technical Academy, 31-41 George Cosbuc Bvd., 050141 Bucharest, Romania

O - 11

ESTABLISH BY ICP – OES, CHEMICAL COMPOSITION AND THICKNESS OF METAL LAYERS

Petre CAPOTA, Eleonora -Ana NEAGU

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

O - 12

ANTIMYCOTIC POLYMER COMPOUNDS OF NATAMYCIN, DEXTRAN, COPOLYMERS OF N-VINYLPYRROLIDONE WITH ACRYLOIL CHLORIDE AND SPIRULINA PLATENSIS

Stefan ROBU¹, Albert IVANCIC¹, Natalia LUPOL¹, Viorel PRISACARI², Gheorghe DUCA¹, Ana DIZDARI²

¹State University of Moldova, 60, Mateevici str., MD 2009, Chisinau, Republic of Moldova
²State University of Medicine and Pharmacy "N. Testemițanu", 165, Stefan cel Mare av., MD 2001, Chisinau, Republic of Moldova

STUDY ON FIXING INCREASED REACTIVE DYES USED IN FUNCTIONALIZED CELLULOSIC TEXTILE DYEING WITH THE REDUCTION OF WASTEWATER LOAD
Cornelia Loti OPROIU¹, Liviu Viorel ALBULESCU¹, Anca Angela ATHANASIU¹, Marian DEACONU¹, Sanda DONCEA¹, RUSE Mircea¹

¹ National Research and Development Institute for Chemistry and Petrochimie- ICECHIM

ORIENTATION TOWARDS THE REAL NEEDS OF THE INDUSTRY - A MAJOR OBJECTIVE OF THE ACADEMIC SECTOR STRATEGY IN A RAPIDLY CHANGING WORLD

Viorel Liviu ALBULESCU^{1,2}, Corneliu NEAGU², Cristian DOICIN², Loti Cornelia OPROIU¹

¹National Research & Development Institute for Chemistry & Petrochemistry ICECHIM, 202 Splaiul Independentei St., PO Box 194, 060021 Bucharest, Romania; ²POLITEHNICA University of Bucharest, 313 Spl.Independentei St., 060048 Bucharest, Romania

THE COMPOSITES OF WASTE POLYPROPYLENE MODIFIED WITH STYRENE-ISOPRENE BLOCK-COPOLYMERS. THE MELT VISCOSITY EFFECT OF STYRENE-ISOPRENE BLOCK-COPOLYMERS

Paul GHIOCA^a, Bogdan SPURCACIU^a, Lorena IANCU^a, Maria RAPA^b, Elena GROSU^b, Ecaterina MATEI^c, Constantin BERBECARU^c, Alexandra PICA^d, Radita GARDU^d, Cornel CINCU^d

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^c POLITEHNICA UNIVERSITY of BUCHAREST, Center for Research and Eco - Metallurgical Expertise, Spl. Independentei No.313, Sector 6, 060042 Bucharest, Romania

^dS.C. ICAA S.A., Theodor Pallady Biv, No. 49A, 032258, Bucharest, Romania

REVERSIBLE PHYSICAL INTERACTION BETWEEN CDSE QUANTUM DOTS AND PERYLENE-DIIMIDE (PDI) AGGREGATES IN AQUEOUS MEDIA
Edina RUSEN^a, Alexandra MOCANU^a, Leona Cristina NISTOR^b, Pietrick HUDHOMME^c, Aurel DIACON^a

^aUniversity Politehnica of Bucharest, Department of Bioresources and Polymer Science, 149 Calea Victoriei, 010072 Bucharest, Romania.

^bNational Institute of Materials Physics, 105 bis Atomistilor, 077125 Magurele-Ilfov, Romania.

^cUniversité d'Angers, Laboratoire MOLTECH-Anjou, CNRS UMR 6200, 2 Bd Lavoisier, 49045 Angers, France.

SYNTHESIS AND CHARACTERIZATION OF COMPLEXES OF ONS DONOR LIGAND TYPE.

Georgeta ZAMFIR¹, N. STANICA², C. DRAGHICI³, E. RUSU⁴, F. DOROFTEI⁴, M. SILION⁴
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.



PROGRAM
30 octombrie 2014

Sectiunea 4 – Petrochimie si inginerie chimica
Comunicari orale – ora 14:00 – Sala „Life” (etajul 1)

Moderatori:
Prof. Dr. Ing. Grigore BOGZA
Dr. Ing. Gheorghe IVAN

O - 1

**RESEARCHING THE UNDERGROUND ATMOSPHERE OF THE CLOSED MINING
WORKS FOR ENSURING THE ADEQUATE SECURITY LEVEL**
**Irina NALBOC, Andrei SZOLLOSI-MOTA, Maria PRODAN, Emeric CHIUZAN, TOMESCU
Cristian, Adrian MATEI**

*Institutul National de Cercetare-Dezvoltare pentru Securitate Miniera si Protectie Antiexploziva - INSEMEX Petrosani
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Telefon: +40 254 541621, Fax: +40 254 546 277; E-mail: insemex@insemex.ro*

O - 2

**QUINOLONE ANTIBACTERIAL AGENTS; SYNTHESIS, CHARACTERIZATION
AND QSAR PROPERTIES**

**Lucia PINTILIE¹, Amalia STEFANIU¹, Ana Ioana NICU¹, Miron Teodor CAPROIU²,
Maria MAGANU², Constantin TANASE¹, Mihaela DEACONU¹, Ana COJOCARU¹**

¹ *National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 74373 Bucharest 3, Romania*

² *Organic Chemistry Center "C.D.Nenitescu", 202 B Splaiul Independentei, Bucharest 6, Romania.*

O - 3

**ABOUT THE MATHEMATICAL MODELING OF THE CONTROLLED RELEASE OF
DRUGS FROM ORAL DOSAGE FORMS**

Veronica CHIOACA, Bianca BAHNA, Paula POSTELNICESCU

*Faculty of Applied Chemistry and Materials Science, University "Politehnica" of Bucharest, 1 Gh. Polizu Street, 011061,
Bucharest, Romania*



PROGRAM
30 octombrie 2014

Sectiunea 5 – Studenti
Comunicari orale – ora 14:00 – Sala Consiliu (etajul 1)

Moderatori:
Dr. Ing. Sanda VELEA
Dr. Sef Lucr. Nicoleta Aurelia CHIRA

O - 1

**COBALT(II) PHTHALOCYANINE SCREEN PRINTED CARBON ELECTRODE FOR
STUDYING THE INTREACTION BETWEEN
MYOGLOBIN AND PEROXYNITRITE
Ioana Silvia HOSU^{1,2}, Mihaela BADEA-DONI¹**

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m_badea@yahoo.it ; ioana.shosu@yahoo.com

²University of Bucharest, Faculty of Chemistry, 4-12 Regina Elisabeta Blvd, 030018, Bucharest, Romania

O - 2

**CONVERSION OF HYDROSOLUBLE P-D-GALACTOFURANOSIDES TO a-L-
ARABINOFURANOSIDES AND THEIR CLEAVAGE BY a-L-ARABINOFURANOSIDASE –
A STRUCTURAL PROOF FOR FURANOSIC RING
Corina Loredana HOTOLEANU (Gutanu), Dumitru Petru IGA**

University of Bucharest, Faculty for Biology, Splaiul Independentei 95, Bucharest-5, Rumania

O - 3

**A NEW TEACHING STRATEGY FOR ALDOHEXOSES STRUCTURE ELUCIDATION. AN
ENBLOCK APPROACH OF THE 16 LINEAR ISOMERS
Dumitru Petru IGA, Florentina DUICA, Silvia Stefania GITMAN,
Corina Loredana HOTOLEANU (Gutanu)**

University of Bucharest, Faculty for Biology, Splaiul Independentei 95, Bucharest-5, Rumania

O - 4

**EVALUATION OF FOUR ROMANIAN LINSEED VARIETIES AS RAW MATERIALS FOR
INDUSTRIAL APPLICATIONS: PRODUCTION PERFORMANCES AND QUALITATIVE
CHARACTERIZATION**

**Anca-Elena ANASTASIU¹, Nicoleta-Aurelia CHIRA¹, Liane Raluca STAN¹,
Niculina IONESCU², Steluța RADU², Sorin Ioan ROSCA¹**

¹ “Politehnica” University of Bucharest, Faculty of Applied Chemistry and Materials Science, “C. Nenițescu” Organic Chemistry Department, P-015 Laboratory, 1-7 Polizu Str., postal code 011061, sector 1, Bucharest, Romania;

² National Agricultural Research and Development Institute (NARDI), Plant Breeding and Seed Multiplication Department, Laboratory of Plant Multiplication, 1 Nicolae Titulescu Str., postal code 915200, Fundulea, Calarasi County, Romania

O - 5

**RELEASE PROFILES OF NOVEL FLUOROQUINOLONE FROM MCM-41 AND MCM-41-
NH₂ MATERIALS**

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

^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

**PRELIMINARY DATA CONCERNING THE SYNTHESIS OF TWO CHROMOGENIC
GLYCOSIDES OF**

**4-NITROCATÉCHOL - α -D-N-ACETYLMANNOPYRANOSAMINIDE AND
 α -L-RHAMNOPYRANOSIDE AS SUBSTRATES FOR EXOGLYCOSIDASES**

Florentina DUICA, Dumitru Petru IGA

University of Bucharest, Faculty for Biology, Splaiul Independentei 95, Bucharest-5, Rumania

**PARTIAL METHYLATION OF MONOSACCHARIDES FOR THE ELABORATION OF A
CHROMATOGRAPHIC MODEL USED IN THE SYSTEMATICS OF PLANTS AND
MICROORGANISMS AS WELL AS FOR GLYCOSYLATION REACTIONS**

Silvia Stefania GITMAN, Dumitru Petru IGA,

University of Bucharest, Faculty for Biology, Splaiul Independentei 95, Bucharest-5, Rumania

**DETERMINATION OF THE FATTY ACIDS PROFILE OF SEED OILS FROM ROMANIAN
MEDICINAL PLANTS THROUGH SPECTROSCOPIC AND CHROMATOGRAPHIC
TECHNIQUES**

**Luisa Elena PREDA¹, Nicoleta-Aurelia CHIRA¹, Daniela ISTRATI¹, Niculina IONESCU²,
Steluța RADU², Anamaria HANGANU^{3,4}, Cristina STAVARACHE^{3,4}**

¹ "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, "C. Neftescu"
Organic Chemistry Department, 1-7 Polizu Str., Bucharest, Romania;

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³ "C. D. Neftescu" Center of Organic Chemistry, 202 B Splaiul Independentei, Bucharest, Romania;
⁴ University of Bucharest, Faculty of Chemistry, 90-92 Sos. Panduri, Bucharest, Romania

**SYNTHESIS OF EPOXYSILANE FUNCTIONALIZED SILICA SUPPORTS FOR HUMIC
ACIDS IMMOBILIZATION**

**Monika SANDOR¹, Cristina Lavinia NISTOR², Violeta PURCAR², Gabor SZALONTAI³,
Rusandica STOICA², Anna-Maria SZOKE⁴, Dan DONESCU², Jozsef FAZAKAS¹**

¹ Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Arany János street, no.11, 400028, Cluj-
Napoca, Romania

² National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM, Splaiul Independentei no.202,
6th district, P.O. 35-174, 060021, Bucharest, Romania

³ University of Pannonia, NMR Laboratory, Institute of Materials Engineering, 8200, Egyetem street, no. 10, Veszprém,
Hungary

⁴ Babes-Bolyai University, Faculty of Environmental Science and Engineering, Extension Sf. Gheorghe, Stadionului street,
no.14, Romania

**ANALYSIS OF RADIOPROTECTION EFFECT OF AN ALGAE EXTRACT OBTAINED
FROM RED ALGAE ENRICHED WITH BIOLOGIC ACTIVE COMPOUNDS**

Radu Marian SERBAN¹, Constantin MUNTEANU², Nicolai CRACIUN¹, Gheorghe STOIAN¹

¹ University of Bucharest, Faculty of Biology,

² Institute of Physical Medicine, Rehabilitation and Medical Balneoclimatology



PROGRAM
30 octombrie 2014

Sesiune POSTERE
Sectiunea 1 - Bioresurse si bioproduse
Ora 14:00 – Hol parter

S1 - P-1

**COMPARISON OF DIFFERENT COMMERCIAL *CLOPIDOGREL* DRUG PRODUCTS
BASED ON BIORELEVANT *IN VITRO* RELEASE KINETICS STUDIES**

Valentina ANUTA¹, Ion MIRCIOIU², Bruno Stefan VELESCU¹

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

²Ovidius University, Faculty of Pharmacy, 1 Universităţii Str., Constanţa, Romania

S1 - P-2

**ENZYMATIC OXIDATION OF ALCOHOLS IN A BIO-MIMETIC MEDIUM
Melania-Liliana ARSENE, Alexandru CHIVULESCU, Gelu VASILESCU, Luiza JECU,
Mihaela BADEA-DONI**

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

S1 - P-3

**DETERMINATION OF OIL CONCENTRATION IN SOLVENT USING THE ABBÉ
REFRACTOMETER**

**Malina AVRAM^{1,2)}, Marta STROESCU²⁾, Anicuta STOICA²⁾, Tanase DOBRE²⁾, Octavian
FLOAREA²⁾, Diana PASARIN¹⁾, Camelia ROVINARU¹⁾**

¹⁾ INCDP-ICECHIM, 202 Spl. Independentei, 060021, Bucharest, Romania

²⁾ UPB, Faculty of Applied Chemistry and Materials Science, 313 Spl. Independentei, 060042, Bucharest, Romania

S1 - P-4

**FLOW INJECTION SYSTEM FOR SIMULTANEOUS DETERMINATION OF GLUCOSE
AND ETHANOL DURING FERMENTATION BIOPROCESSES**

**Mihaela BADEA-DONIⁱ, Alexandru CHIVULESCUⁱ, Melania-Liliana ARSENEⁱ, Gelu
VASILESCUⁱ, Andrei Florin DANETⁱⁱ, Luiza JECUⁱ**

ⁱNational Institute for R&D in Chemistry & Petrochemistry - ICECHIM, Bucharest, Romania

ⁱⁱUniversity of Bucharest, Faculty of Chemistry, 90-92 Sos. Panduri, Bucharest, Romania

E-mail: m_badea@yahoo.it

S1 - P-5

**ISOLATION BY AFFINITY CHROMATOGRAPHY OF THE BIOACTIVE PRODUCTS
FROM HELLEBORUS PURPURASCENS AND INVESTIGATION OF THEIR ANTI-
TUMOR ACTIVITY TOWARDS A PANEL OF 12 CELL LINES**

BIRZOI R.^b, BALCU I.^b, MACARIE C.^b, KELTER G.^c, NEDA I.^{a,b}

^aInstitut für Anorganische und Analytische Chemie Technische Universität Carola-Wilhelmina Hagenring 30, D-38106
Braunschweig, Germany; ^bInstitutul National de Cercetare Dezvoltare pentru Electrochimie si Materie Condensata Str.

Dr. A. Paunescu Podeanu Nr. 144, Ro-300569 Timisoara, Romania; ^cOncotest GmbH, Am Flughafen 12-14, 79108
Freiburg, Germany

S1 - P-6

**BENEFICIAL BACTERIAL STRAINS ORIGINATED FROM DIFFERENT TYPE OF
SILAGES**

**Annamaria BECZE, Bernadett FUNKENHAUZER, Eva LASLO, Gyongyver MARA,
Szabolcs LANYI, Beata ABRAHAM**

Sapientia Hungarian University of Transylvania, Faculty of Science Miercurea Ciuc, Department of Bioengineering,
Libertatii sq. 1, 530104 Miercurea Ciuc

**THE INFLUENCE OF THE HYDROCLORIC ACID TO THE PROCESS OF OBTAINING 5-
CLOROMETHYL-FURFURAL FROM D-FRUCTOSE**

David BEDO, Olimpiu BLAJAN, Augustin CRUCEAN

Research Institute for Organic Auxiliary Products, Medias, str. Carpati nr.8

**EVALUATION BIODEGRADATION, BIOCOMPATIBILITY OF MEMBRANES
CONTAINING COLLAGEN/CHITOSAN/ALKALINE PHOSPHATASE**
**Elena BERTEANU 1, Ioana DEMETRESCU 2, Daniela IONITA 2, Rodica TATIA 1,
Agnes APATEAN 1, Lucia MOLDOVAN 1, Luminita TCACENCO 1**

1. National Institute of Research and Development for Biological Sciences, Bucharest, Romania, e-mail:

lili_berteanu@yahoo.com

2. Politehnica Bucharest University, Faculty of Applied Chemistry and Material Science, Department of General Chemistry, Polizu Street, Bucharest, 011061

**BIOACTIVITY AND CHEMICAL COMPOSITION OF VARIOUS
ORIGANUM VULGARE EXTRACTS**

Corina BUBUEANU, Lucia PIRVU, Ioana NICU

National Institute for Chemical-Pharmaceutical R&D (ICCF-Bucharest),

Vitan Road 112 Sector 3, Bucharest, ROMANIA,

email: corina.bubueanu@yahoo.com

**CHARACTERISATION OF POTASSIUM ULTRA MICROPIPETTE ION SELECTIVE
ELECTRODE FOR POTENTIOMETRIC SECM IN BIOLOGICAL APPLICATION**

**Mihaela CALUGAREANU¹, Rusandica STOICA¹, Bibiana Maria FERNANDEZ-PEREZ²,
Zsuzsanna ORI³, András KISS³, Livia NAGY^{*3}, Florin OANCEA¹, Geza NAGY³**

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

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Hungary*

**Corresponding author's email: +3672503635, g-nagy@gamma.ttk.pte.hu, lnagy@ttk.pte.hu*

**PRELIMINARY STUDIES ON THE USE OF MICRTOBIOLOGICAL RESOURCES TO
ENHANCE THE SUPPRESSIVE SOIL EFFECT**

Ana-Cristina FATU, Oana-Alina SICUIA, Mihaela Monica DINU

Research-Development Institute for Plant Protection, 8 Ion Ionescu de la Brad Bvd., Bucharest, Romania

NOVEL STRIGOLACTONE ANALOGS SYNTHESIS

**Florentina GEORGESCU,¹ Emilian GEORGESCU,² Florin OANCEA,³ Sanda VELEA,³
Lucian VLADULESCU,¹ Marius-Constantin VLADULESCU,¹ Georgeta ISTRATE¹**

¹*Research Dept., Teso Spec srl., Str. Muncii 53, 915200 Fundulea, Calarasi, Romania;*

²*Research Center Oltchim, Str. Uzinei 1, 240050, Ramnicu Valcea, Romania;*

³*National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM, Spl. Independentei 202,
060021, Bucharest, Romania*

VALUATION OF EDIBLE WILD PLANTS OF THE GUINEAN SAVANNAH:**THE CASE OF DETARIUM SENEGALENSE (J.F.Gmel)**Yango KEITA ^{a)}, Cesse Waita GUEMOU ^{b)}; Elena GUTU ^{c)}, Iacob GUTU ^{d)}^{a)} Département Génie Chimique, Université de Conakry, BP 1147, Guinée; ^{b)} Université de N'Zérékoré, Guinée; ^{c)} State Agricultural University of Moldova, Chişinău, 44, Mirceşti Str; ^{d)} State University of Moldova, Chişinău, Faculty of Chemistry and Technological Chemistry, 60, A. Mateevici Str**EVALUATION OF SOME MICROBIAL STRAINS ABLE TO PRODUCE AN ENZYME CELLULOSOLYTIC COMPLEX, SUBSEQUENTLY USED AS PART OF A NEW TECHNOLOGY IN ORDER TO OBTAIN BIOGAS FROM VEGETABLE WASTES****Ana Despina IONESCU, Irina LUPESCU, Misu MOSCOVICI, Angela CASARICA, Eugenia MOCANU, Mariana Gratiela VLADU**

National Chemical-Pharmaceutical for Research and Development Institute, Vitan Avenue, No.112, District 3, Bucharest

EVALUATION OF STABILITY OF SEVERAL ANTITUMOR PYRAZOLE DERIVATIVES UNDER STRESS CONDITIONS**George Mihai NITULESCU, Georgiana NEDELICU, Bruno Stefan VELESCU, Valentina ANUTA, Anca BUZESCU, Oana Cristina SEREMET, Octavian Tudorel OLARU**

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

SYNTHESIS OF NEW AMINOPYRAZOLE DERIVATIVES AS POTENTIAL ANTICANCER AGENTS**George Mihai NITULESCU¹, Georgiana NEDELICU¹, Constantin DRAGHICI², Octavian Tudorel OLARU¹**¹ Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania² C.D. Nenitzescu Institute of Organic Chemistry, 202B Spl. Independentei, Bucharest 060023, Romania**CYTOTOXICITY SCREENING OF SEVERAL EXTRACTS FROM *CONSOLIDA REGALIS* GRAY. USING *DAPHNIA MAGNA* AND *PHYSA ACUTA* BIOASSAYS****Octavian Tudorel OLARU, Iulia Marina POTOLEA, Oana Marina PIRVU, Alexandra Mădălina RUSINAC, Cristiana Elena SPINU, Mihaela DINU,****George Mihai NITULESCU**

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

PROTECTIVE BIOFORTIFICATION WITH SELENIUM OF CRUCIFEROUS CROPS FOR PRODUCTION OF FUNCTIONAL FOOD**Anca OANCEA¹, Florentina GEORGESCU², Valentin PETRUS³, Danut TURCU⁴**¹National Institute of Research and Development for Biological Sciences, Bucharest; ²S. C. Teso Spec SRL; ³S.C. Eco Fruct SRL; ⁴ "Spiru Haret" University, Bucharest**ANALYSIS METHODS OF BIOLOGICALLY ACTIVE COMPOUNDS IN *MOMORDICA CHARANTIA* AND *PASSIFLORA INCARNATA* PLANTS****Simona SAVIN, Agnes TOMA, Lucia MOLDOVAN, Oana CRACIUNESCU,****Anca OANCEA**

National Institute of Research and Development for Biological Sciences, 296, Splaiul Independentei, Bucharest

PHYSICO-CHEMICAL CHARACTERIZATION OF SOME SEMISOLID TOPICAL SYSTEMS CONTAINING VEGETAL BIOPRODUCTS
Alina ORTAN¹, Cristina DINU-PIRVU², Lacramioara POPA², Irina FIERASCU³, Mihai NITULESCU²

1 - University of Agricultural Sciences and Veterinary Medicine, Bucharest

2 - 'Carol Davila' University of Medicine and Pharmacy, Bucharest

3 - National R&D Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest

ANTHRISCUS SYLVESTRIS AND ANHRISCUS CEREFOLIUM FRUITS AS A SOURCE OF PHENOLIC COMPOUNDS

Octavian Tudorel OLARU¹, Alina ORTAN², George Mihai NITULESCU¹, Mihaela Violeta GHICA¹, Cristina Elena DINU-PIRVU¹

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

² University of Agricultural Sciences and Veterinary Medicine, 59 Marasti Bld., Bucharest 011464, Romania

STUDIES REGARDING THE TRANSFORMATION OF A WASTE (OSTRICH FAT) IN PRODUCTS WITH HIGH ADDED VALUE

Cristina HLEVCA, Elena PATRUT, Ramona-Daniela PAVALOIU, Lucia PINTILIE, Rodica BALAS, Ecaterina DAMIAN

National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 031299, Bucharest 3, Romania, e-mail: chlevca@yahoo.com

ISOLATION AND SCREENING FOR AMYLASE PRODUCING MICROORGANISMS FROM WATER AND SOIL FROM DIFFERENT AREAS OF ROMANIA

Maria-Monica PETRESCU, Misu MOSCOVICI, Ana Despina IONESCU, Mihaela-Claudia SEVCENCO, Caterina TOMULESCU, Alexandra GHIORGHITA, Mariana-Gratiela VLADU

National Institute for Chemical Pharmaceutical Research and Development-ICCF, Vitan Avenue, No.112, District 3, Bucharest

BEECH FOREST, AN IMPORTANT, RENEWABLE SOURCE OF ACTIVE INGREDIENTS AND NOVEL BIOPRODUCTS

Lucia PIRVU¹, Dragomir COPREAN²

¹National Institute for Chemical-Pharmaceutical R&D (INCDCF), Bucharest, Romania, Vitan Street 112, Sector 3, email: lucia.pirvu@yahoo.com

²Ovidius University - Faculty of Natural and Agricultural Sciences, Constanta, Romania, Mamaia 124.

DIMINUTION OF CONTAMINATION RISKS FOR STORED GRAINS PROTECTION

Mariana POPESCU,* Florin OANCEA*, Carmen LUPU, Constantin NEAMTU***

**National R&D Institute of Chemistry and Petrochemistry, Bucharest, Romania*

*** R&D Institute of Plant Protection, Bucharest, Romania*

COMPARATIVE METHODS FOR DETERMINATION OF PHOSPHORUS IN VARIOUS MATRICES: INDUCTIVELY COUPLED PLASMA SPECTROMETRY VERSUS GRAVIMETRIC METHOD

Lidia PREDA, Luiza CAPRA, Georgeta IVAN

National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM, 202 Independentei Street, Bucharest

IMPROVING FOOD SAFETY THROUGH THE DEVELOPMENT AND IMPLEMENTATION OF ACTIVE AND BIODEGRADABLE FOOD PACKAGING SYSTEMS

Maria RAPA, Elena GROSU, Lucica STANULET, Ancuta TRIFOI, Timea PAP, David BEDO, Olimpiu BLAJAN, Augustin CRUCEAN
S.C. ICPAO S.A., Carpati Street, No. 8, 551022 Medias, Sibiu, Romania

THE EFFECT OF BIODEGRADATION ON SURFACE AND BULK PROPERTY CHANGES OF POLYPROPYLENE AND RECYCLED POLYPROPYLENE COMPOSITES

Iulia RAUT^{1,2}, Elena GROSU³, Zina VULUGA¹, Violeta PURCAR¹, Michaela IORGA¹, Melania Liliana ARSENE¹, Mihaela BADEA-DONI¹, Maria RAPA³, Gelu VASILESCU¹, Marius GHIUREA¹, Luiza JECU^{1*}

¹ - INCDCP-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, Romania; * Corresponding author: jecu.luiza@icechim.ro

USEFULNESS OF *TRICHODERMA SPECIES* AGAINST PLANT PATHOGENS

Iuliana RAUT^{1,2}, Mariana CALIN^{1,2}, Melania Liliana ARSENE¹, Mihaela BADEA-DONI¹, Gelu VASILESCU¹, Tatiana SESAN^{1,2}, Luiza JECU¹

^{1]} INCDCP-ICECHIM, Spl. Independentei 202, 060021, Bucharest, Romania

^{2]} University of Bucharest, Faculty of Biology, Spl. Independentei 91-95, Bucharest

COMPARATIVE STUDY OF *Kluyveromyces sp.* GROWN ON LIQUID SWEET AND SOUR CHEESE WHEY

Camelia ROVINARU^{*}, Diana PASARIN^{*}, Ion NICOLAE^{}, Bogdan FRUNZAREANU^{**}, Gheorghe RACEANU^{*}, Malina AVRAM^{*}**

^{*} Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie – ICECHIM, Spl. Independentei nr. 202, Bucuresti

^{**} SC Romvac Company SA, Str. Centurii nr. 7, Voluntari, Ilfov

INFLUENCE OF NATURAL WASTE SUBSTRATES COMPOSITION ON YEAST STRAINS BIOMASS PRODUCTION

Camelia ROVINARU, Diana PASARIN, Gheorghe RACEANU, Malina AVRAM

Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie – ICECHIM, Spl. Independentei nr. 202

STUDY ON THE CATALYTIC ACTIVITY OF POLYMER MEMBRANES-BASED ENZYMATIC COMPOSITES

T. SANDU, A. SARBU, T. V. IORDACHE, A. ZAHARIA, L. MARIN, C. MARIN, S. APOSTOL, S. IANCU, M. DULDNER

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

**MULTIFUNCTIONAL AND INNOVATIVE PRODUCTS FOR SAFE AND BIOENHANCED
FUNCTIONAL FOOD FROM NEWLY CULTIVATED PLANTS IN ROMANIA**

**Tatiana Eugenia SESAN¹, Florin OANCEA¹, Iulia RAUT^{1,2}, Luiza JECU¹, Mariana CALIN^{1,2},
Melania Liliana ARSENE¹, Mihaela BADEA-DONI¹, Gelu VASILESCU¹**

¹ INCDCP-ICECHIM, Spl. Independentei 202, Bucharest, Romania

² University of Bucharest, Faculty of Biology, 91-95 Spl. Independentei, Bucharest, Romania

**PHYTOPATHOGEN CONTROL OF HORTICULTURAL SHRUBS WITH PLANT
EXTRACTS. II. *ALTERNARIA ALTERNATA***

**Tatiana Eugenia SESAN^{1,4}, Elena ENACHE¹, Beatrice Michaela IACOMI², Maria OPREA³,
F. OANCEA⁴, C. IACOMI²**

¹ Department of Botany & Microbiology, Biology Faculty, University of Bucharest; ² Department of Plant Sciences, Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine Bucharest; ³ Research-Development Institute of Plant Protection Bucharest; ⁴ National Research-Development Institute for Chemistry and Petrochemistry (ICECHIM) Bucharest, ROMANIA

**PHYTOPATHOGEN CONTROL OF HORTICULTURAL SHRUBS WITH PLANT
EXTRACTS. II. *BOTRYTIS CINEREA***

**Tatiana Eugenia SESAN^{1,4}, Elena ENACHE¹, Beatrice Michaela IACOMI², Maria OPREA³,
F. OANCEA⁴, C. IACOMI²**

¹ Department of Botany & Microbiology, Biology Faculty, University of Bucharest;

² Department of Plant Sciences, Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine Bucharest;

³ Research-Development Institute of Plant Protection Bucharest

⁴ National Research-Development Institute for Chemistry and Petrochemistry Bucharest

**NEW CARBOCYCLIC NUCLEOSIDE ANALOGUES AS POTENTIAL ANTICANCER
AND/OR ANTIVIRAL COMPOUNDS**

**Constantin TANASE¹, Ana COJOCARU¹, Constantin DRAGHICI², Maria MAGANU², Sergiu
SHOVA³, Catalina NEGUT¹, Lucia PINTILIE¹, Mihaela DEACONU¹**

¹ National Institute for Chemical-Pharmaceutical Research and Development, 112 Vitan Av., 74373 Bucharest 3, ROMANIA

² Organic Chemistry Center "C. D. Nenitescu", 202 B Splaiul Independentei, Bucharest 060023, ROMANIA

³ Institute Of Molecular Chemistry "Petru Poni", Iasi, Romania

**BIOTECHNOLOGICAL PROSPECTING STUDIES ON NATURE ISOLATED
MICROBIAL STRAINS FOR LIPASE PRODUCTION**

**Biol. Caterina TOMULESCU^{1,2}, Dr. Eng. Misu MOSCOVICI¹, Prof. Dr. Adrian VAMANU², Biol.
Eugenia MOCANU¹, Biochem. Maria PETRESCU¹, Eng. Mariana VLADU^{1,2}, Dr. Biochem.
Claudia SEVCENCO¹, Dr. Biol. Anca IONESCU¹, Dr. Eng. Alexandra GHIORGHITA¹**

National Institute for Chemical Pharmaceutical Research and Development, VitanAve, 112, Bucharest University of Agronomic Science and Veterinary Medicine, Marasti, 59, Bucharest

OXIDATION OF GLYCEROL BY NANOSTRUCTURED CATALYSTS**Mihaela BOMBOS, Gabriel VASILIEVICI***National Research and Development Institute for Chemistry – Petrochemistry ICECHIM-Bucharest, Splaiul Independentei, No. 202, 060021, Bucharest, Romania***METABOLIC EFFECTS OF A *RUBI IDAEI FOLIUM* POLYPHENOLIC EXTRACT IN AN ALLOXAN INDUCED DIABETES MODEL****Bruno-Stefan VELESCU¹, Teodora COSTEA¹, Cornel CHIRITA¹, Anca BUZESCU¹, Elena MOROSAN¹, Radu Claudiu FIERASCU², Cerasela GIRD¹**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 – ICECHIM, 202 Spl. Independentei, Bucharest, 060021, Romania***NON-CLINICAL ANTIINFLAMMATORY EFFECT EVALUATION OF TWO PHARMACEUTICAL DOSAGE FORMS CONTAINING AN NSAID AGENT BY PLETHYSMOMETRY****Bruno-Stefan VELESCU¹, Valentina ANUTA¹, Iulian SARBU¹, Anca BUZESCU¹, Irina FIERASCU², Radu Claudiu FIERASCU², Simona NEGRES¹**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 – ICECHIM, 202 Spl. Independentei, Bucharest, 060021, Romania***ANTIINFLAMMATORY EFFECT EVALUATION OF NOVEL RUTHENIUM(III)-NORFLOXACIN COMPLEX WITH ANTICANCER PROPERTIES****Bruno-Stefan VELESCU¹, Valentina ANUTA¹, George Mihai NITULESCU¹, Valentina UIVAROSI¹, Cristina Elena DINU-PIRVU¹**¹ *Carol Davila University of Medicine and Pharmacy, Traian Vuia 6, Bucharest 020956, Romania*



PROGRAM
30 octombrie 2014

Sesiune POSTERE
Sectiunea 2 - Ing. mediului și protecția patrimoniului cultural
Ora 14:00 – Hol parter

S2 - P-1

**EXPERIMENTAL RESEARCHES REGARDING THE COMPLEX VALORIFICATION OF
PHOSPHATIC RAW MATERIALS IN THE NITROPHOSPATES INDUSTRY**

Georgeta BALEANU¹, Victor Alexandru FARAON¹,

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

S2 - P-2

YOU KNOW THE CONTENT OF BATHING WATERS

Petre CAPOTA, Victoria PURCARU, Estera CONSTANTINESCU

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

S2 - P-3

**APPLICATION OF THE MACROPOROUS ION EXCHANGE RESIN OF VARIOUS TYPES
IN DYES REMOVAL FROM INDUSTRIAL WASTEWATER**

**Marian DEACONU, Raluca SENIN, Inna TRANDAFIR, Anca ATHANASIU,
Mircea RUSE, Loti OPROIU**

*Institutul National de Cercetare Dezvoltare pentru Chimie si Petrochimie-ICECHIM
Splaiul Independentei 202, sector 6, Bucuresti*

S2 - P-4

**CLEAN METHOD OF OBTAINING OLIGOESTER-POLYOLS FOR
THERMOINSULATING RIGID POLYURETHANE FOAMS FROM PET WASTES**

Monica DULDNER^{*}, Stela IANCU^{*}, Emeric BARTHA^{}, Steluta APOSTOL^{*}, Andrei
SARBU^{*}, Teodor SANDU^{*}, Anamaria ZAHARIA^{*}**

^{*}*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-5

**THE IMPACT OF SOME INSECTICIDES UPON PHYSIOLOGICAL PARAMETERS IN
TWO FISH SPECIES (*PERCA FLUVIATILIS L AND ALBURNUS ALBURNUS L*)**

**Maria Cristina PONEPAL¹, Alina PAUNESCU¹, Georgeta BRANZEA¹, Irina FIERASCU²,
Radu Claudiu FIERASCU²**

¹*University of Pitesti, Faculty of Science, 1 Targu din Vale Str., Pitesti, Romania*

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

REMOVAL OF AZO DYES FROM AQUEOUS SOLUTIONS USING CYCLODEXTRIN BASED POLYMERS

Sorin Marius AVRAMESCU¹, Radu Claudiu FIERASCU², Irina FIERASCU²

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RESEARCHES ON THE INFLUENCE OF METYL THIOPHANATE ON THE PLANTLETS OF *CAPSICUM ANNUUM* L.

**Liliana Cristina SOARE¹, Codruta Mihaela DOBRESCU¹, Ionela Madalina MIHAI¹,
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THE USE OF NATURAL EXTRACTS FOR THE SYNTHESIS OF NOBLE METAL NANOPARTICLES

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EFFECT OF ADDITIVES ON THE MELT PROCESSING AND PROPERTIES OF POLYHYDROXYALKANOATES

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REMOVAL OF COPPER (II) FROM AQUEOUS SOLUTIONS WITH DIFFERENT TYPES OF BIOCHAR PRODUCED FROM BIOMASS

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**LOW MIGRATION PLASTICIZERS FOR PVC, FROM POLYETHYLENE
TEREPHTHALATE (PET) WASTES**

Stela IANCU*, Monica DULDNER*, Emeric BARTHA, Andrei SARBU*, Anamaria
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**FLUID DYNAMICS PHENOMENA SIMULATION IN FILTER-VENTILATION AND
ACCESS AREAS**

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**STUDIES OF ALKALI REMOVAL APPLIED TO LOW-ALKALINE BAYER RED MUD
PRODUCTION, USING CO₂-SORPTION NEUTRALIZATION AGENT. GREEN
COMBINATION FOR PREPARING FOAMS**

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NEW POSSIBILITIES FOR USE OF THE CROSS-LINKED POLYMERS

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**PRODUCTION, CHARACTERIZATION AND APPLICATION OF NANOSIZED IRON
OXIDE IN METALURGICAL AND MINING INDUSTRY**

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**EFFECT OF SURFACE TREATMENT IN POLYPROPYLENE – HEMP FIBERS
COMPOSITES**

**Denis Mihaela PANAITESCU, Zina VULUGA, Michaela Doina IORGA,
Andi Cristian NICOLAE, Raluca GABOR, Adriana Nicoleta FRONE, Ioana CHIULAN,
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**RESEARCHES REGARDING THE INFLUENCE OF MINING WASTE DEPOSITS ON THE
DEGREE OF POLLUTION OF MURES RIVER AQUIFERS AND RELATED BIOLOGICAL
ENVIRONMENTS FROM HUNEDOARA COUNTY DUE TO DRAINAGE OF THE MINING
WATERS**

Andrei SZOLLOSI MOTA, Irina NALBOC, Maria PRODAN

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**DATA CONCERNING ESTABLISHING THE ECOLOGICAL STATUS OF THE ABRUD
RIVER CATCHMENT AREA USING BIOINDICATORS (ROSIA MONTANA, ROMANIA)**

Adriana OLENICI¹, Laura MOMEU², Călin BACIU¹, Gabriela TEODOSIU³

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**INNOVATIVE SOLUTIONS INTENDED TO INCREASE ENERGY EFFICIENCY IN
BUILDINGS AND INDUSTRIAL EQUIPMENT BY USING BIODEGRADABLE THERMAL
INSULATING COMPOSITE MATERIALS**

**Zina VULUGA¹, Florin OANCEA¹, Luiza JECU¹, Iulia RAUT¹, Valentin APOSTOL², Jenica
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PROGRAM
30 octombrie 2014

Sesiune POSTERE
Sectiunea 3 - Materiale multifuncționale și nanocompozite
Ora 14:00 – Hol parter

S3 - P-1

**COLLAGEN – PLANT EXTRACT MEMBRANES USED AS SCAFFOLDS FOR SKIN
TISSUE ENGINEERING**

**Elena Iulia OPRITA, Rodica TATIA, Valentina ALEXANDRU, Lavinia CIOTEC,
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S3 - P-2

**MELT ELASTICITY CONTROL OF SOME NEW RENEWABLE MULTIPHASE
MATERIALS AS POSSIBILITIES TO AVOID THE INSTABILITIES AT EXTRUSION**

**Celina DAMIAN¹, Doina DIMONIE², Marius PETRACHE², Liliana ANTON²,
Eugeniu VASILE³, Roxana TRUSCA³, Eng. Mihai DIMONIE², Maria RAPA⁴, Adina
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S3 - P-3

**APPARENT AND REAL SHEAR VISCOSITY AS METHOD TO CONTROL THE
APPLICATIONS PROPERTIES OF NEW MULTIPHASE RENEWABLE MATERIALS**

**Doina DIMONIE¹, Marius PETRACHE¹, Mihai DIMONIE¹, Liliana ANTON¹,
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S3 - P-4

**NEW MULTIPHASE RENEWABLE MATERIALS WITH HIGH CONTENT OF
NATURAL FIBERS AND MINERAL FILLERS**

**Doina DIMONIE¹, Marius PETRACHE¹, Liliana ANTON¹, Eugeniu VASILE³,
Roxana TRUSCA³, Celina DAMIAN², Mihai DIMONIE¹, Maria RAPA⁴**

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**RHEOLOGICAL PROPERTIES IN THE MELTED STATE AS EXPRESSION OF
MISCIBILITY OF NEW PROCESS SENSITIVE RENEWABLE MULTIPHASE
MATERIALS**

**Doina DIMONIE¹, Marius PETRACHE¹, Sanda DONCEA¹, Liliana ANTON¹, Eugeniu
VASILE³, Roxana TRUSCA³, Celina DAMIAN², Mihai DIMONIE¹, Maria RAPA⁴**

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**REDUCTION OF Cr⁶⁺ TO Cr³⁺ FROM WASTEWATERS USING ZEOLITE – TYPE
CATALYTIC MATERIALS**

**Victor Alexandru FARAON¹, Raluca Madalina SENIN¹, Georgeta BALEANU¹,
Rodica M. ION¹**

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**CONTACT ANGLES OF THE WOOL FABRICS FUNCTIONALIZED WITH TITANIUM
DIOXIDE**

**Maria BIRZU, Dr. Florin COTOROBAL, Dr. Irina ZGURA, Dr. Constantin Paul GANEA, Dr.
Stefan FRUNZA, Lucian DIAMANDESCU, Ligia FRUNZA**

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**THERMO-MECHANICAL BEHAVIOR OF POLYSTYRENE AND POLYPROPYLENE –
TiO₂ COMPOSITE FILMS UPON AGEING**

**Augusta Raluca GABOR, Cristian Andi NICOLAE, Valentin RADITOIU, Viorica
AMARIUTEI, Alina RADITOIU, Luminita WAGNER**

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**MODELING THE CHARGE TRANSFER AT THE IONIC LIQUID-ELECTRODE
INTERFACE IN DIELECTRIC SPECTROSCOPY MEASUREMENT- A MORE
COMPREHENSIVE APPROACH**

Constantin Paul GANEA

National Institute of Materials Physics

ANTIBACTERIAL NANOSTRUCTURED MEDICAL DEVICES

**Elena GROSU¹, Anton FICAI², Carmen Balotescu³, Maria RAPA¹, Petruta STOICA¹,
Luiza JECU⁴, Mihaela ANDREICA¹, Mihaela HETVARI¹**

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**COPOLYMERS OF N-VINYLPYRROLIDONE GRAFTED WITH STEROIDAL
GLYCOSIDES**

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NEW MATERIALS FOR OBTAINED ENZYME BIOSENSORS

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**PREPARATION AND CHARACTERISATION OF POLYMER-CLAY COMPOSITE
MEMBRANES**

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**SYNTHESIS AND MODIFICATION OF STYRENE-ISOPRENE ELASTOMERS BY
GRAFTING OF NORBORNENE VIA RING-OPENING
METATHESIS POLYMERIZATION (ROMP)**

Lorena IANCU, Bogdan SPURCACIU *, Paul GHIOCA,

Ioneta BUJANCA, Ramona GRIGORESCU, Cristian-Andi NICOLAE, Raluca GABOR

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**EFFECT OF TITANIUM MICROSTRUCTURED BIOMATERIAL ON THP-1 CELLS
Madalina ICRIVERZI¹, Janina BANITA², Livia SIMA¹, Paula FLORIAN¹, Anca ROSEANU¹**

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**HYPERICIN IMPRINTED POLY (METHACRYLIC ACID -CO - ETHYLENE GLYCOL
DIMETHACRYLATE) BEADS USING A SUSPENSION APPROACH**

Ana-Mihaela FLOREA, Andrei SARBU, Steluta APOSTOL, Anita-Laura RADU,

Anamaria ZAHARIA, Tanta-Verona IORDACHE

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Bucharest, Romania*

**COMPARATIVE STUDY OF THE CHARACTERISTICS OF STANDARD
RESIN / MODIFIED RESIN COMPOUNDS BY MOLAR RATIO OF
REACTANTS USED FOR MODIFICATION**

Magdalena-Adriana LADANIUC, Liviu DUMITRACHE, Raluca GABOR,

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**POLYURETHANE NANOCOMPOSITE OBTAINED USING MONTMORILLONITE
MODIFIED POLYETHERPOLYOLS**

Catalina Daniela MARIN, Laurentiu MARIN, Teodor SANDU

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GRAPHENE MATERIALS FOR FUEL CELL APPLICATIONS

**Adriana MARINOIU¹, Constantin TEODORESCU², Irina PETREANU¹,
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**DESIGN AND TESTING OF LIQUID MEMBRANE SYSTEMS FOR THE SYNTHESIS OF
MICRO AND NANO PARTICLES FOR USE IN THE CONTROLLED RELEASE OF
ACTIVE SUBSTANCES**

**Mariana MATEESCU, Irina CHICAN, Aurelia PISCUREANU, Dana VARASTEANU, Ina
TRANDAFIR, Sanda DONCEA, Raluca SOMOGHI, Cristina NISTOR, Irina CIOBANU,
Fanica BACALUM, Gabriel VASILIEVICI, Iulian MINCA, Ioneta BUJANCA**

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**DETECTION OF THE NITRO-OXIDATIVE SPECIES BY MICROBIOSENSOR-BASED
SCANNING ELECTROCHEMICAL MICROSCOPY (SECM)**

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**HYDROPHOBIC AND TRANSPARENT SILICA HYBRID COATINGS FOR
POLYCARBONATE SUBSTRATE**

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**BENZOSUBSTITUTED COUMARINE FLUOROPHORS AS OPTICAL WHITENING
AGENTS AND UV ABSORBERS FOR SYNTHETIC FIBERS**

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**DERIVATIVES OF 4,4'-BIS[(4''-R-PHENYLAMINO-S-TRIAZIN-2''-YL)AMINO]STILBENE-
2,2'-DISULFONIC ACID AS ADDITIVES IN WASHING COMPOSITIONS FOR
CELLULOSIC FIBERS**

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TUNGSTEN OXIDE GAS SENSORS FABRICATED BY PULSED LASER DEPOSITION
Alexandra Palla PAPAVALU^{1,2}, Mihaela FILIPESCU², Valentina DINCA², Maria DINESCU²,
Stefan ANTOHE¹

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THE APPLICATION OF POLYMER COMPOSITE MATERIALS ON PROTECTION EQUIPMENTS

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CATALYST DEVELOPMENT FOR CARBON MONOXIDE REMOVAL FROM HYDROGEN FUEL CELL

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EFFECT OF SEBS AND SBS BLOCK COPOLYMERS ON PROPERTIES OF RANDOM PP

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PELLETIZING ROLE IN MELT PROCESSING OF SOME NEW RENEWABLE MULTIPHASE MATERIALS

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COLL/TiO₂-Ag COMPOSITE NANOMATERIALS FOR ANTIMICROBIAL APPLICATION

Angela SPOIALA¹, Denisa FICAI¹, Georgeta VOICU¹, Anton FICAI¹, Madalina Georgiana ALBU², Camelia UNGUREANU¹, Ecaterina ANDRONESCU¹

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MODIFICATION OF STYRENE-ISOPRENE BLOCK-COPOLYMERS BY CROSS METATHESIS WITH OLEIC ACID

Bogdan SPURCACIU, Paul GHIOCA, Lorena IANCU *, Ioneta BUJANCA, Ramona GRIGORESCU, Cristian-Andi NICOLAE, Raluca GABOR

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**PREPARATION AND CHARACTERISATION OF POLY(LACTIC ACID)/POLY
(ε-CAPROLACTONE)/ SILVER NANOPARTICLES BIONANOCOMPOSITES**

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**NOVEL SODIUM ALGINATE - POLY(N-ISOPROPYLACRYLAMIDE)
THERMOREVERSIBLE INJECTABLE HYDROGELS WITH SEMIINTERPENETRATING
NETWORK STRUCTURE**

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^bNational Institute of Research and Development for Chemistry and Petrochemistry - ICECHIM, 202 Splaiul Independentei, 06002, Bucharest, Romania

**THERMAL DEGRADATION OF POLY(N-ISOPROPYLACRYLAMIDE-co-5,6-BENZO-2-
METHYLENE-1,3-DIOXEPANE) STATISTICAL COPOLYMERS: A KINETIC ANALYSIS**

**Paul STANESCU,^{a,*} Gabriel TURTURICA,^a Maria ANDREI,^a Constantin DRAGHICI,^b
Dumitru Mircea VULUGA,^b Anamaria ZAHARIA,^c Andrei SARBU,^c
Mircea TEODORESCU,^{a,*}**

^aDepartment of Bioresources and Polymer Science, Faculty of Applied Chemistry and Materials Science, Polytechnic University, 1 Gh. Polizu Street, 022453 Bucharest, Romania; ^bCenter of Organic Chemistry of the Romanian Academy, 202B Splaiul Independentei, 060023 Bucharest, Romania;

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**INTERACTION BETWEEN MAGNETITE NANOPARTICLES AND CR(VI) FROM
INDUSTRIAL WATER**

Sofia TEODORESCU¹, Rodica-Mariana ION^{2,3}

¹ Institutul de Cercetare Științifică și Tehnologică Multidisciplinară al Universității Valahia din Târgoviște, Aleea Sinaia, nr. 13, cod poștal 130004

² Valahia University, Faculty of Materials Engineering and Mechanics, Targoviste, Romania

³ ICECHIM, Nanomedicine Research Group, Bucharest, Romania

**MORPHOLOGICAL AND THERMO MECHANICAL PROPERTIES OF
HALLOYSITE/POLYPROPYLENE NANOCOMPOSITES**

**Zina VULUGA¹, Catalina Gabriela SANPOREAN², Constantin RADOVICI¹,
Raluca GABOR¹, Cristian NICOLAE¹, Mihai Cosmin COROBEA¹, Michaela IORGA¹,
Dorel FLOREA¹**

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

²Aalborg University, Department of Mechanical and Manufacturing Engineering, Fibigerstraede 16 DK-9220 Aalborg, Denmark



PROGRAM
30 octombrie 2014

Sesiune POSTERE
Secțiunea 5 - Studenți
Ora 14:00 – Hol parter

S5 - P-1

ANALYSIS OF REMEDIATION EFFICIENCY OF SOME SOILS POLLUTED BY CRUDE OIL FROM SUPLACU DE BARCAU, ROMANIA

Roua Gabriela POPESCU¹, Elena ZAHARIA¹, Claudiu FAUR², Gabriela PASCALE¹, Doru GABOR¹, Nicolae CRACIUN¹, Ioan ARDELEANU³, Gheorghe STOIAN¹

¹. University of Bucharest, Faculty of Biology; ².S.C.StiloEvora SRL; ³.ICEBIOL Bucharest

S5 - P-2

NITRATE REMOVAL BY CATALYTIC REDUCTION WITH HYDROGEN

Simona GHIMIS^{1,2}, Jean-Philippe DACQUIN¹, Pascal GRANGER¹, Vasile PARVULESCU²

1 - University of Lille1, Unite de Catalyse et de Chimie du Solide – UMR CNRS 8181, USTL – Batiment C3 0 59655 Villeneuve d'Ascq Cedex, France ;

2 – Faculty of Chemistry, University of Bucharest, sos. Panduri, 90-92, Bucharest, Romania ; Telephone : +33(0)3.20.33.61.21 ; e-mail sb.troncea@ed.univ-lille1.fr



PROGRAM
30 octombrie 2014
Workshop „GAZE DE ȘIST”
Sala „Life”
ora 14:30

GENERAL INFORMATION ABOUT SHALE GAS RESERVOIRS

Prof. dr. eng. Aurelian NEGUT

The University of Bucharest, Department of Geophysics, Faculty of Geology and Geophysics



PROGRAM
31 octombrie 2014
Workshop „INNOVATIVE BIO-ECONOMY”
Sala „Festivitati”
ora 8:30

Workshop “INNOVATIVE BIO-ECONOMY” – 1
STEPS TO SUCCESS IN HORIZON 2020 – SOCIETAL CHALLENGES 2

Ioana ISPAS

*International Cooperation Department
Ministry of National Education*

Workshop “INNOVATIVE BIO-ECONOMY” – 2
LAW ON EMPLOYEES’ INVENTIONS – A LAW NECESSARY FOR ROMANIA?

Bucura IONESCU

Direcția Brevete de Invenție și Suport al Inovării; Oficiul de Stat pentru Invenții și Mărci

Workshop “INNOVATIVE BIO-ECONOMY” – 3
EXAMINATION OF NOVELTY AND INVENTIVE STEP OF A PATENT APPLICATION

Elisabeta CLEPS

Direcția Brevete de Invenție și Suport al Inovării; Oficiul de Stat pentru Invenții și Mărci

Workshop “INNOVATIVE BIO-ECONOMY” – 4
TECHNOLOGICAL TRANSFER IN A GLOBAL COMPETITIVE WORLD

Alexandru CABUZ

*researchforindustry.ro; Romanian Institute of Science and Technology; Founder and CEO at Peergate SRL
Program director - researchforindustry.ro at Romanian Institute of Science and Technology; alexcabuz2@gmail.com*

Workshop “INNOVATIVE BIO-ECONOMY” – 5
BUILDING AN INNOVATIVE CLUSTER – CUI PRODEST?

Dragos SEULEANU

Magurele High-tech Cluster; Fundatia pentru Democratie, Cultura si Libertate



PROGRAM

Workshop „AGRO-BIO-ECONOMY – A ROMANIAN APPROACH”

Sala „Festivitati”

ora 10:30

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” - 1

PLANT BIOSTIMULANTS INTEGRATION INTO PLANT-BASED BIO-ECONOMY

VALUE CHAIN

F. OANCEA¹, T. E. SESAN^{1,2}, S. VELEA¹, P.C. CORNEA^{3,4}, S. DINU⁵, F. CONSTANTINESCU⁵, M. POPESCU¹, C. MINCEA⁵, I. RĂUT¹

1- National R&D Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest; 2 – University of Bucharest, Faculty of Biology, Bucharest; 3 – University of Agronomical Sciences and Veterinary Medicine, Faculty of Biotechnologies, Bucharest; 4- Center for Applied Biochemistry and Biotechnologies Biotehnol, Bucharest; 5 – Research-Development Institute for Plant Protection, Bucharest

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 2

INOVATIVE TECHNIQUES FOR REVOLUTIONARY CHEMISTRY DEVELOPMENT

Miruna PETRIA

Analytic Laboratory

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 3

FLOW (BIO)CHEMISTRY – A POWERFUL TOOL FOR BIO-ECONOMY AND AGRICULTURE

Mihaela DONI, Florin OANCEA

National R&D Institute for Chemistry and Petrochemistry – ICECHIM

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 4

FIELD EMISSION GUN TECHNOLOGY IN *FEI TEM & STEM*: PRINCIPLE AND APPLICATIONS

Dominique DELILLE

Business Development Manager, FEI Company

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 5

PRACTICAL UTILIZATIONS OF TRANSMISSION ELECTRON MICROSCOPY WITH TOMOGRAPHY

Marius GHIUREA, Cristian PETCU, Cristina Lavinia NISTOR, Violeta PURCAR, Raluca SOMOGHI, Raluca IANCHIS, Catalin-Ilie SPATARU, Florin OANCEA

National R&D Institute for Chemistry and Petrochemistry – ICECHIM

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 6

MODERN TRAINING FOR BIO-ENTREPRENEURS IN SUSTAINABLE DEVELOPMENT APPLICATIONS

Ana Aurelia CHIRVASE¹, Nicoleta RADU¹, Narcisa BABEANU², Ovidiu POPA², Fantxo HASTARAN³, Birute VELIKYENE⁴, Renata STEPONAVICIENE⁴

1 - National R&D Institute in Chemistry and Petrochemistry –ICECHI; ,2 - University of Agronomic Science and Veterinary Medicine, Bucharest; 3 - Association pour la Formation en Milieu Rural – Etcharry Formation Développement; 4 - Kauno regioninis inovacijų Centras, K. Petrausko g. 26-221, Kauns, Lithuania

Workshop “AGRO-BIO-ECONOMY – A ROMANIAN APPROACH” – 7

BASIC TEMPLATE REGARDING THE ENTREPRENEURSHIP KEY COMPETENCES NEEDED TO START AND TO DEVELOP INNOVATIVE SME’S IN THE BIO ECONOMIC SECTOR TARGETED TO SUSTAINABLE DEVELOPMENT APPLICATIONS

Ana Aurelia CHIRVASE¹, Nicoleta RADU¹, Narcisa BABEANU², Ovidiu POPA², Fantxo HASTARAN³, Birute VELIKYENE⁴, Renata STEPONAVICIENE⁴

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Workshop „ECOLOGICAL PRODUCTS BASED ON DIATOMACEOUS EARTH AND ESSENTIAL OILS FOR THE RESIDUES AND CONTAMINANTS REDUCTION FROM THE FOOD CHAIN”

Sala „Festivitati”

ora 13:30

ECOLOGICAL PRODUCTS BASED ON DIATOMACEOUS EARTH AND ESSENTIAL OILS FOR THE RESIDUES AND CONTAMINANTS REDUCTION FROM THE FOOD CHAIN

Carmen LUPU*, Mariana POPESCU, Florin OANCEA**, Delia-Georgeta DUMITRAS***, Niculina CHITORAN******

Research and Development Institute for Plant Protection, 8 Ion-Ionescu de la Brad, Bucharest **National Research and Development Institute for Chemistry and Petrochemistry, 202 Independentei, Bucharest *Geological Institute of Romania, Bucharest ****SC Agrotehnic SRL Paulesti*



PROGRAM

Workshop „BIODEGRADABLE THERMAL INSULATING COMPOSITE MATERIALS FOR BUILDINGS AND INDUSTRIAL EQUIPMENT”

Sala „Protocol”

ora 13:30

BIODEGRADABLE THERMAL INSULATING COMPOSITE MATERIALS FOR BUILDINGS AND INDUSTRIAL EQUIPMENT

Zina VULUGA¹, Florin OANCEA¹, Luiza JECU¹, Iulia RAUT¹, Valentin APOSTOL², Malina-Mihaela PRISECARU², Jenica PACEAGIU³, Doru Vladimir PUȘCAȘU³

¹National Research and Development Institute for Chemistry and Petrochemistry-ICECHIM, 202 Spl. Independenței, 060021, Bucharest, Romania; ²University Politehnica Bucharest, Faculty of Mechanical Engineering and Mechatronics, 313 Spl. Independenței, Bucharest, Romania; ³CEPROCIM S.A., 6 Preciziei, 062203, Bucharest, Romania



PROGRAM

Workshop „MULTIFUNCTIONAL AND INNOVATIVE PRODUCTS FOR SAFE AND BIOENHANCED FUNCTIONAL FOOD FROM NEWLY CULTIVATED PLANTS IN ROMANIA” - PROIECT 160/2014 - (MAIA)”

Biblioteca

ora 13:30

**MULTIFUNCTIONAL AND INNOVATIVE PRODUCTS FOR SAFE AND BIOENHANCED FUNCTIONAL FOOD FROM NEWLY CULTIVATED PLANTS IN ROMANIA (MAIA)
PN-II-PT-PCCA-2013-4-0995/160/2014 (MAIA)**

Programme PN2 P4 Partnership PCCA 2013

Luiza JECU

ICECHIM



PROGRAM

Roundtable - "LIQUID WASTE MANAGEMENT" Sala „Life” ora 13:30

Roundtable - "LIQUID WASTE MANAGEMENT" - 1

COBALT IONS AND SURFACTANT IONS SEPARATION FROM AQUEOUS SOLUTIONS USING PUROLITE ION EXCHANGE RESINS

PhD Irina Elena CHICAN¹, **PhD Aurelia PISCUREANU**¹, **PhD Dana VĂRĂȘTEANU**¹,
PhD Mircea RUSE¹

¹National Research and Development Institute for Chemistry and and Petrochemistry- ICECHIM Bucharest, 202 Splaiul
Independentei, 0060021, Bucharest, Romania

Roundtable - "LIQUID WASTE MANAGEMENT" – 2

RADIOCHEMICAL STUDY OF Cs-137 AND Co-60 SORPTION BEHAVIOR ON STRONGLY ACIDIC CATION EXCHANGERS

dr. Mirela DULAMA, dr. Cristian Nicolae DULAMA, CS III Mirela OLTEANU

Institute for Nuclear Research Pitesti, Mioveni 115400, Campului street no. 1, Romania

Roundtable-"LIQUID WASTE MANAGEMENT" – 3

MANAGEMENT OF SPENT ION EXCHANGE MATERIALS

Dr. Mircea RUSE, Dr. Aurelia PISCUREANU, Dr. Dana VARASTEANU,
Dr. Irina CHICAN

*National Research and Development Institute of Chemistry and Petrochemistry -ICECHIM
Splaiul Independentei, no.202, sector 6, Bucharest, Romania*

Roundtable-"LIQUID WASTE MANAGEMENT" – 4

ISOTOPIC INVESTIGATION APLICABILITY FOR RESEARCH AND MONITORING WATER SOURCES

Drd. Ing. Gabriela STANESCU¹, **Dr. Augustin TENU**²

¹ National Institute of Hydrology and Water Management, Sos. Bucuresti-Ploiesti, Nr.97 sector 1, Bucharest

² Romanian Association of Hydrogeologists, str. Traian Vuia nr. 6, sector 2, Bucharest