

PROGRAM

12TH International Conference on Colloid and Surface Chemistry

MAY 16-18, 2016 • IASI • ROMANIA

Dedicated to the 150th anniversary of the Romanian Academy













12th International Conference on Colloid and Surface Chemistry

16 - 18 May 2016



CONFERENCE PROGRAM



"Petru Poni" Institute of Macromolecular Chemistry Iasi, Romania

Monday, May 16	
800 – 915	Registration of Participants
$\frac{0^{33}-9^{15}}{09^{15}-09^{30}}$	Conference Opening
0910 = 0900	09 ³⁰ – 10 ⁵⁰
	Session 1. CONFERENCES
	Conference hall
$09^{30} - 10^{10}$	Chair: Bogdan C. SIMIONESCU, Dan-Florin ANGHEL PL1. COMPETING FORCES IN CELLULOSE DISSOLUTION
0930 - 1010	
	Björn LINDMAN, Luís ALVES, Maria MIGUEL, Bruno MEDRONHO
	Center of Chemistry and Chemical Engineering, Lund University, Sweden
1010 1050	Department of Chemistry, Coimbra University, Portugal
$10^{10} - 10^{50}$	PL2. SOL-GEL CHEMISTRY. BASIC RESEARCHES AND APPLICATIONS
	Maria ZAHARESCU
	"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy,
4050 4410	Bucharest, Romania
$10^{50} - 11^{10}$	Coffee Break – Conference Hall
	$11^{10} - 12^{30}$
	Session 2. CONFERENCES
	Conference hall
	Chair: Maria ZAHARESCU, Stanislaw SLOMKOWSKI
$11^{10} - 11^{50}$	PL3. INVESTIGATION OF THE ADSORPTION PROCESS OF HEAVY
	METAL IONS FROM AQUEOUS SOLUTIONS ON CHITOSAN
	<u>Simona SCHWARZ</u> , Mandy MENDE
	Leibniz-Institut für Polymerforschung Dresden e.V., Dresden, Germany
$11^{50} - 12^{30}$	PL4. FUNCTIONAL NANOSTRUCTURES FROM AMPHIPHILIC BLOCK
	COPOLYMERS AND OTHER BUILDING BLOCKS
	Stergios PISPAS
	Theoretical and Physical Chemistry Institute, National Hellenic Research
	Foundation, Athens Greece
$12^{30} - 13^{30}$	ICMPP visit
$13^{30} - 15^{00}$	Lunch – <i>Library Hall</i>
	$15^{00} - 16^{05}$
	Session 3. CONFERENCES
	Conference hall
	Chair: Svetlana BRATSKAYA, Valeria HARABAGIU
$15^{00} - 15^{40}$	PL5. SMART COMPLEX FLUIDS BASED ON ANTENNARY
	OLIGOGLYCINES
	Elena MILEVA, Anna GYUROVA, Stefan STOYANOV, Dimi ARABADZHIEVA,
	Ljubomir NIKOLOV
	Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia,
	Bulgaria
$15^{40} - 16^{05}$	KN1. NANOCOMPOSITE WO3-TiO2/FLY ASH WITH DUAL
	FUNCTIONALITY IN SIMULTANEOUS REMOVAL OF POLLUTANTS
	FROM WASTEWATER
	Maria VISA, Andreea CHELARU, Anca DUTA
	Transilvania University of Brasov, Product Design and Environment Centre,
	Brasov, Romania
$16^{05} - 16^{25}$	Coffee Break – Conference Hall
10 = 10	Conce Dican - Conjerence Hun

	1625 1755
	$16^{25} - 17^{55}$ Session 4. OPAL COMMUNICATIONS
	Session 4. ORAL COMMUNICATIONS
	Conference hall
4.625 4.640	Chair: Anca DUŢĂ, Adriana BARAN
$16^{25} - 16^{40}$	OC1. HYBRID BIOMATERIALS- CHALLENGES AND OPPORTUNITIES
	Geta DAVID ¹ , Tudor VASILIU ¹ , Daniel TAMPU ² , Dragos PEPTANARIU ² ,
	Cristina URATU ²
	1"Gh. Asachi" Technical University of Iasi, Iasi, Romania
	² "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$16^{40} - 16^{55}$	OC3. POLYION-DRIVEN SELF-ASSEMBLY OF SPHERICAL VIRUS-LIKE
	NANOPARTICLES INVESTIGATED BY MOLECULAR DYNAMICS
	SIMULATIONS
	Daniel G. ANGELESCU
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
$16^{55} - 17^{10}$	OC5. TRANSIENT POLYMER NETWORKS FORMED IN SOLVENT. DOSY
	NMR AND RHEOLOGICAL INVESTIGATIONS
	Monika GOSECKA, Mateusz GOSECKI, Slawomir KAZMIERSKI
	Centre of Molecular and Macromolecular Studies, Lodz, Poland
$17^{10} - 17^{25}$	OC7. INFLUENCE OF THE C ₁₂ SURFACTANTS CONCENTRATION ON THE
	MORPHOLOGY OF SPRAY PYROLYSIS DEPOSITED ZnO
	Maria COVEI, Cristina BOGATU, Dana PERNIU, Anca DUTA
	"Transilvania" University of Brasov, Brasov, Romania
$17^{25} - 17^{40}$	OC9. BORAX COMPLEXES STARTING FROM ANIONIC SURFACTANT IN
	ASSOCIATION WITH UNLABELED OR FLUORESCENTLY LABELED
	POLY(ACRYLIC ACID)S
	<u>Elena Livia SIMION</u> , Gabriela STÎNGĂ, Adriana BĂRAN, Ludmila ARICOV,
	Ioana Cătălina GÎFU, Dan Florin ANGHEL
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
$17^{40} - 17^{55}$	OC11. ANTIVIRAL EFFECT AGAINST HEPATITIS B VIRUS OF
	NANOCOMPOSITES SELF-ASSEMBLIES OF PLASMONIC
	GOLD/LAYERED DOUBLE HYDROXIDES
	<u>Gabriela CÂRJĂ</u> 1, Elena Florentina GROSU1, Catalina PETRAREANU2,
	Norica NICHITA ²
	¹ "Gh. Asachi" Technical University of Iasi, Iasi, Romania
	² Institute of Biochemistry of the Romanian Academy, Bucharest, Romania
	$16^{25} - 17^{55}$
	Session 5. ORAL COMMUNICATIONS
	Library hall
	Chair: Diana CIOLACU, Alina IOVESCU
$16^{25} - 16^{40}$	OC2. HYDROPHOBIZATION OF GLASS SURFACE BY ELECTROSTATIC
	DEPOSITION OF ALKYL-GRAFTED POLY(ACRYLATES)-SURFACTANT
	COMPLEXES
	Ioana Cătălina GÎFU, Alina IOVESCU, Monica Elisabeta MAXIM, Elena-
	Livia SIMION, Ludmila ARICOV, Dan-Florin ANGHEL
4.640 4.655	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
16^{40} – 16^{55}	OC4. HYDROGEN BONDED COMPLEXES BETWEEN POLY(N-
	VINYLCAPROLACTAM) AND A MALEIC ACID COPOLYMER -
	INTERACTION STUDY AND APPLICATION IN DRUG DELIVERY
	Irina POPESCU
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

16^{55} – 17^{10}	OC6. FLUORESCENCE INVESTIGATION OF HYDROPHOBICALLY MODIFIED POLYACRYLATES IN AQUEOUS SOLUTION AND IN THE
	PRESENCE OF SURFACTANTS
	Ludmila ARICOV, Adriana BĂRAN, Elena Livia SIMION, Ioana Cătălina
	GÎFU, Dan-Florin ANGHEL
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
$17^{10} - 17^{25}$	OC8. ALGINATE / SPINEL FERRITE COMPOSITE AS MAGNETIC
	ADSORBENT FOR ENVIRONMENTAL APPLICATIONS
	Andra-Cristina HUMELNICU, Corneliu COJOCARU, Petrisor SAMOILA,
	Petronela Pascariu DORNEANU, Valeria HARABAGIU
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$17^{25} - 17^{40}$	OC10. OSMOLYTES EFFECT ON THE STRUCTURE AND KINETICS OF
	CANDIDA RUGOSA LIPASE ENCAPSULATED IN REVERSE MICELLES
	Anca Ruxandra LEONTIEŞ, Gabriela STÂNGĂ, Adina RĂDUCAN, Dan-
	Florin ANGHEL
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
$17^{40} - 17^{55}$	OC12. DESIGNING AND CHARACTERIZATION OF NOVEL IPN
	COMPOSITE CRYOGELS BASED ON POLY(N,N-DIMETHYLAMINOETHYL
	METHACRYLATE) AND POLY(ACRYLAMIDE)
	Ecaterina Stela DRAGAN, Ana Irina COCARTA
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$17^{55} - 18^{15}$	Coffee Break - Conference Hall
	$18^{15} - 18^{55}$
	Session 6. CONFERENCES
	Conference hall
	Chair: Piero BAGLIONI
$18^{15} - 18^{55}$	PL6. NON-VIRAL DELIVERY SYSTEMS FOR GENE THERAPY
	<u>Mariana PINTEALA</u> , Bogdan C. SIMIONESCU
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
	$18^{55} - 19^{30}$
	Session 7. POSTERS
	Conference hall
	rica DOROFTEI, Claudiu GHIORGHIȚĂ, Anca LEONTIEȘ, Gabriela STÎNGĂ
$18^{55} - 19^{30}$	P1 - P30
	Posters will be exposed on the panels after participants' registration and will remain exhibited during the entire conference period.
	Discussion on posters are expected during all coffee breaks.
19 ³⁰ – 22 ⁰⁰	Dinner - Vanatorul Restaurant

Tuesday, Mo	ay 17
	$09^{00} - 10^{20}$
	Session 8. CONFERENCES
	Conference hall
	Chair: Simona SCHWARZ, Stergios PISPAS
0900 - 940	PL7. DNA IS A HIGHLY CHARGED AMPHIPHILIC POLYMER THAT
	ASSOCIATES STRONGLY WITH CATIONIC SURFACTANTS
	Maria MIGUEL, Björn LINDMAN, Rita DIAS, Carmen MORÁN, Diana COSTA
	Department of Chemistry, Coimbra University, Coimbra, Portugal
$09^{40} - 10^{20}$	PL8. PHYSICAL AND CHEMICAL GELS FOR FINELY CONTROLLED
0, 10	CLEANING OF CULTURAL HERITAGE
	Piero BAGLIONI
	Department of Chemistry & CSGI, University of Florence, Florence, Italy
$10^{20} - 10^{40}$	Coffee Break – Conference Hall
	$10^{40} - 12^{00}$
	Session 9. CONFERENCES
	Conference hall
	Chair: Mariana PINTEALA, Björn LINDMAN
$10^{40} - 11^{20}$	PL9. GREEN SYNTHESIS OF GOLD NANOPARTICLES USING CHITOSAN
	AND ITS DERIVATIVES
	Alexander PESTOV ^{1,2} , Svetlana BRATSKAYA ²
	¹ I. Ya. Postovsky Institute of Organic Synthesis, Ural Branch of RAS,
	Yekaterinburg, Russia
	² Institute of Chemistry, Far East Branch of RAS, Vladivostok, Russia
$11^{20} - 12^{00}$	PL10. MICROEMULSIONS FROM ENHANCED OIL RECOVERY TO HYBRID
	ENGINE FUELS: AN OVERVIEW
	Dan-Florin ANGHEL , Marieta BALCAN, Monica Elisabeta MAXIM, Florentina
	Cristina MIHAILESCU
	"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy,
1200 1220	Bucharest Romania
$12^{00} - 12^{20}$	Coffee Break – <i>Conference Hall</i> $12^{20} - 13^{25}$
	Session 10. CONFERENCES
	Conference hall
	Chair: Teresa BASINSKA, Monika GOSECKA
12 ²⁰ - 13 ⁰⁰	PL11. POLYSILOXANE MICROSPHERES AND THEIR CERAMIC
	DERIVATIVES
	Stanislaw SLOMKOWSKI, Witold FORTUNIAK, Julian CHOJNOWSKI, Piotr
	POSPIECH, Urszula MIZERSKA
	Center of Molecular and Macromolecular Studies, Polish Academy of Science,
	Lodz, Poland
$13^{00} - 13^{25}$	KN2. CATION - SURFACTANT INTERACTIONS IN SMALL DROPLETS
_	UNDER A TEMPERATURE GRADIENT
	Anca DUTA
	Transilvania University of Brasov, Renewable Energy Systems and Recycling
	Centre, Brasov, Romania
$13^{25} - 15^{00}$	Lunch – <i>Library Hall</i>

	$15^{00} - 16^{05}$
	Session 11. CONFERENCES
	Conference hall
	Chair: Maria MIGUEL, Geta DAVID
$15^{00} - 15^{40}$	PL12. ASSEMBLIES OF COLLOIDAL HYDROPHILIC PARTICLES
	CONTAINING POLYGLYCIDOL: PREPARATION, CHARACTERIZATION,
	APPLICATIONS.
	Teresa BASINSKA, Monika GOSECKA, Patrycja KOMAR, Stanislaw
	SLOMKOWSKI
	Center of Molecular and Macromolecular Studies, Polish Academy of Sciences,
	Lodz, Poland
$15^{40} - 16^{05}$	KN3. POLYELECTROLYTE COMPLEXES AS COLLOIDAL DISPERSION -
	COMPLEX TEMPLATES FOR CaCO3 CRYSTALS GROWTH
	Marcela MIHAI, Stefania RACOVITA, Florica DOROFTEI, Ana-Lavinia
	MATRICALA, Cristian BARBU-MIC
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$16^{05} - 16^{25}$	Coffee Break – Conference Hall
	$16^{25} - 17^{40}$
	Sessions 12. ORAL COMMUNICATIONS
	Conference hall
	Chair: Maria VISA, Marcela MIHAI
$16^{25} - 16^{40}$	OC13. FLUORESCENTLY LABELED POLY(ACRYLIC ACID) IN CONFINED
	MICROENVIRONMENTS
	Gabriela STÎNGĂ, Adriana BĂRAN, Alina IOVESCU, Elena Livia SIMION,
	Ludmila ARICOV, Dan-Florin ANGHEL
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania
$16^{40} - 16^{55}$	OC15. SORPTION/RELEASE OF IONIC COMPOUNDS IN/FROM
10 10	POLY(ETHYLENEIMINE)/POLY(ACRYLIC ACID) MULTILAYER FILMS
	<u>Claudiu-Augustin GHIORGHITĂ</u> , Florin BUCATARIU, Ecaterina Stela
	DRĂGAN
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$16^{55} - 17^{10}$	OC17. THE INFLUENCE OF SEVERAL PARAMETERS UPON THE
10 1.	BEHAVIOR OF PYRENE LABELED POLY(ACRYLIC ACID) IN AOT REVERSE
	MICELLE AS REVEALED BY NRET
	Monica Elisabeta MAXIM, Gabriela STÎNGĂ, Alina IOVESCU, Dan Eduard
	MIHĂIESCU, Adriana BĂRAN, Anca Ruxandra LEONTIEŞ, Marieta BALCAN,
	Dan Florin ANGHEL
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania
$17^{10} - 17^{25}$	OC19. MACROPOROUS SEMI-IPN COMPOSITE HYDROGELS BASED ON
1, 1,	POLY(N,N-DIMETHYLAMINOETHYL METHACRYLATE) AND STARCH
	Diana Felicia LOGHIN , Ecaterina Stela DRĂGAN
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
$17^{25} - 17^{40}$	OC21. WATER-IN-OIL MICROEMULSIONS OF DIESEL AND DIESEL-
17 - 17	RAPESEED OIL AS ALTERNATIVE FUELS. PHASE BEHAVIOR,
	INTERFACIAL TENSION, SOLUBILIZATION AND STRUCTURAL
	INVESTIGATIONS
	Marieta BALCAN, Florentina-Cristina MIHĂILESCU, Monica Elisabeta MAXIM,
	Ioana Catalina GIFU, Dan-Florin ANGHEL
	·
	"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania

Sessions 13. ORAL COMMUNICATIONS Library hall Chair: Irina POPESCU, Daniel ANGELESCU 16 ²⁵ – 16 ⁴⁰ OC14. PHYSICALLY AND CHEMICALLY CROSS-LINKED CELLULOSE CRYOGELS Diana CIOLACU¹, Cyrielle RUDAZ², Tatiana BUDTOVA² ¹"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania ²MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 16 ⁴⁰ – 16 ⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
Library hall Chair: Irina POPESCU, Daniel ANGELESCU 1625 – 1640 OC14. PHYSICALLY AND CHEMICALLY CROSS-LINKED CELLULOSE CRYOGELS Diana CIOLACU¹, Cyrielle RUDAZ², Tatiana BUDTOVA² ¹"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania ²MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 1640 – 1655 OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
Chair: Irina POPESCU, Daniel ANGELESCU 1625 – 1640 OC14. PHYSICALLY AND CHEMICALLY CROSS-LINKED CELLULOSE CRYOGELS Diana CIOLACU¹, Cyrielle RUDAZ², Tatiana BUDTOVA² 1"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania 2MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 1640 – 1655 OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 1655 – 1710 OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
16 ²⁵ – 16 ⁴⁰ OC14. PHYSICALLY AND CHEMICALLY CROSS-LINKED CELLULOSE CRYOGELS Diana CIOLACU ¹ , Cyrielle RUDAZ ² , Tatiana BUDTOVA ² 1"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania 2MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 16 ⁴⁰ – 16 ⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
CRYOGELS Diana CIOLACU Cyrielle RUDAZ², Tatiana BUDTOVA² 1"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
Diana CIOLACU¹, Cyrielle RUDAZ², Tatiana BUDTOVA² ¹"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania ²MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 16⁴0 - 16⁵5 OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16⁵5 - 17¹0 OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
1"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania 2MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 16 ⁴⁰ – 16 ⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
 2MINES ParisTech, PSL Research University, CEMEF - Centre de Mise en Forme des Matériaux, Sophia Antipolis, France 16⁴⁰ – 16⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16⁵⁵ – 17¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
des Matériaux, Sophia Antipolis, France 16 ⁴⁰ – 16 ⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
16 ⁴⁰ – 16 ⁵⁵ OC16. NEW ASPECTS OF THE BINDING OF ETHOXYLATED NONIONIC SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
SURFACTANTS TO SERUM ALBUMINS REVEALED BY SPECTROSCOPIC TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
TECHNIQUES Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
Alina IOVESCU, Adriana BĂRAN, Gabriela STÎNGĂ, Anca Ruxandra LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
LEONTIEŞ, Monica Elisabeta MAXIM, Dan Florin ANGHEL "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania 16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
16 ⁵⁵ – 17 ¹⁰ OC18. THE INFLUENCE OF THE CULTURE MEDIUM COMPOSITION ON THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
THE EXOPOLYSACCHARIDE BIOSYNTHESIS Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
Anca Roxana PETROVICI, Irina ROSCA, Alina NICOLESCU, Mariana
· · · · · · · · · · · · · · · · · · ·
PINTEALA, Diana CIOLACU
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
17 ¹⁰ – 17 ²⁵ OC20. AGGREGATION OF SOME HYDROPHOBICALLY MODIFIED
POLYACRYLATES IN AQUEOUS SOLUTION
Adriana BĂRAN, Ludmila ARICOV, Dan-Florin ANGHEL
"Ilie Murgulescu" Institute of Physical Chemistry, Bucharest Romania
17 ²⁵ – 17 ⁴⁰ OC22. BIOINSPIRED POLYTHIOPHENE-BASED POLYMERS IN HAIRY-ROD
ARCHITECTURE: INFLUENCE OF GRAFTS LENGTH AND GRAFTING
DENSITY ON THEIR ELECTRO AND BIOACTIVITY
Anca-Dana BENDREA, Luminita CIANGA, Ioan CIANGA
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania 17 ⁴⁰ – 18 ⁰⁰ Coffee Break – Conference Hall
Session 14. CONFERENCES
Conference hall
Chair: Elena MILEVA
1800 – 1840 PL13. HYBRID MATERIALS BUILT OF SILICON-BASED POLYMERS
Valeria HARABAGIU, Liviu SACARESCU
"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
18 ⁴⁰ – 19 ⁰⁰ Conference Closing
19 ³⁰ – 22 ⁰⁰ Conference Dinner – <i>Majestic Restaurant</i>

Wednesday	y, May 18
$10^{00} - 11^{00}$	Visit of the Palace of Culture
1100 - 1800	Excursion Ruginoasa (Cuza Castle) - Hanul Ancutei - Miclauseni (Sturdza Castle)

POSTERS LIST

P1	WHEAT SEEDS AS MARKERS OF HEAVY METAL POLLUTION AND DECONTAMINATION OF TARNIȚA MINING AREA
	Alina Elena Butnariu ¹ , Raluca Ștefănescu ² , Olga Pintilie ³ , Manuela
	Murariu ⁴ , Ion Bunia ⁴ , Andriana Surleva ⁵ , Cătălina Ionica Ciobanu ² , Carmen
	Iacoban ⁶ , and Maria Magdalena Zamfirache ¹
	¹ "Alexandru Ioan Cuza" University of Iasi, Faculty of Biology, Iasi, Romania
	² "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania
	³ "Alexandru Ioan Cuza" University of Iasi, Faculty of Geography and Geology, Iasi,
	Romania
	⁴ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
	⁵ University of Chemical Technology and Metallurgy, Analytical Chemistry Department,
	Sofia, Bulgaria
	⁶ Forest Research and Management Institute, Research Station C-lung Moldovenesc,
	Suceava, Romania
P2	PARTICULATE MATTER AND GASEOUS POLLUTANTS VARIABILITY IN IASI
	URBAN AREA, NORTH-EASTERN ROMANIA
	Alina-Giorgiana Galon (Negru) ¹ , Romeo Iulian Olariu ^{1,2} , Cecilia Arsene ^{1,2}
	¹ "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania
	² "Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science
D0	Studies in the North Eastern Region - CERNESIM, Iasi, Romania
P3	THERMAL DEGRADATION STUDY OF BROMINATED FLAME RETARDANTS
	WITH EMPHASIS ON THE ESTIMATION OF HUMAN EXPOSURE THROUGH
	INDOOR DUST INGESTION
	Alin C. Dirtu ¹ , Mihai Dumitras ¹ , Dan Maftei ¹ , Anton Airinei ² , Nita
	Tudorachi ² , Dragos L. Isac ²
	¹ "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania
D.4	² "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P4	NEW METHOD FOR THE PREPARATION OF CYCLODEXTRIN-COATED
	MAGNETIC NANOPARTICLES
	Ana-Lacramioara Lungoci, Adrian Fifere, Alexandru Rotaru, Mariana
	Pinteala
	Centre of Advanced Research in Bionanoconjugates and Biopolymers, "Petru Poni" Institute
	of Macromolecular Chemistry, Iasi, Romania
P5	STABILIZATION MECHANISMS OF TiO ₂ DISPERSIONS IN PHOTOCATALYTIC
	INKS
	<u>Cristina Bogatu</u> , Dana Perniu, Maria Covei, Anca Duta
	Transilvania University of Brasov, Romania, R&D Centre: Renewable Energy Systems and
	Recycling, Brasov, Romania
P6	POLYIMIDE MICRO- AND NANOPARTICLES VIA THE REPRECIPITATION
	METHOD
	<u>Camelia Hulubei</u> , Cristina-Doina Vlad, Dumitru Popovici, Irina Andreea
	Barzic, Daniela Rusu
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P7	POLYIMIDE SURFACES TREATMENT BY NITROGEN PLASMA FOR
	IMPROVEMENT OF GOLD ADHESION
	Simona-Luminita Nica ¹ , Camelia Hulubei ¹ , Emil Ghiocel Ioanid ¹ , Marius
	Dobromir ² , Silvia Ioan ¹
	¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
	² "Al. I. Cuza" University, Faculty of Physics, Iasi, Romania

P8	VERSATILE SiO ₂ /npAu-TiO ₂ /SiO ₂ STRUCTURES WITH ADVANCED OPTICAL AND
	SELF-CLEANING PROPERTIES
	<u>Ciprian MIHOREANU</u> ¹ , Alexandru ENEŞCA ² , Anca DUŢĂ ²
	¹ Renewable Energy Systems and Recycling Center, Romania
	² Transilvania University of Brasov, Brasov, Romania
P9	VANCOMYCIN-PECTIN/CHITOSAN MICROPARTICLES. PREPARATION AND IN
	VITRO RELEASE MECHANISM STUDY
	<u>Cristian Dima</u> ¹ , Popescu Maria ² , Ștefan Dima ¹
	¹ Dunărea de Jos" University of Galati, Faculty of Food Science and Engineering, Galati,
	Romania
	² CHU-Guadeloupe, Pointe á Pitre /Abymes, France
P10	NEW APPROACH CONCERNING THE STUDY OF CELLULOSE ALLOMORPHS
	CONVERSION PROCESSES
	Denisa G. Paraschiv ^{1,2} , Florin Ciolacu ² , Daniel Tampu ¹ , Diana Ciolacu ¹
	¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
	² "Gheorghe Asachi" Technical University of Iasi, Iasi, Romania
P11	PENTACYANOFERRATE(II) COMPLEXES WITH CHITOSAN AND ITS
	DERIVATIVES: SYNTHESIS, CHARACTERIZATION, AND APPLICATION
	Alexander Pestov ¹ , <u>Dmitry Marinin²</u> , Veniamin Zheleznov ² , Alexander
	Mekhaev ¹ , Svetlana Bratskaya ²
	¹ I. Ya. Postovsky Institute of Organic Synthesis, Ural Branch of RAS, Yekaterinburg, Russia
	² Institute of Chemistry, Far East Branch of RAS, Vladivostok, Russia
P12	STRUCTURAL, MAGNETIC and MAGNETO-OPTICAL PROPERTIES OF LEAD
	and IRON -DOPED SILICO-PHOSPHATE SOL-GEL FILMS
	Mihail Elisa ¹ , Ileana Cristina Vasiliu ² , Raluca Iordanescu ¹ , Bogdan
	Alexandru Sava ² , Lucica Boroica ² , Mihaela Valeanu ³ , Victor Kuncser ³
	¹ National Institute of R & D for Optoelectronics INOE 2000, Magurele, Ilfov, Romania
	² National Institute for Laser, Plasma and Radiation Physics, Magurele. Ilfov, Romania
D40	³ National Institute of Materials Physics, Magurele, Ilfov, Romania
P13	FUEL CHARACTERISTICS OF WATER-IN-OIL MICROEMULSIONS BASED ON
	DIESEL AND DIESEL-RAPESEED OIL. RHEOLOGICAL, STRUCTURAL AND
	COMBUSTION STUDIES
	Florentina-Cristina Mihăilescu, Marieta Balcan, Dan-Florin Anghel, Ludmila
	Aricov, Elena-Livia Simion, Iulia Contineanu, Daniela Gheorghe, Speranța
	Tănăsescu
	"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania
P14	HETEROGENEOUS DISTRIBUTION OF CARBON NANOTUBES (CNTs) AS
	DECISIVE FACTOR OF PROPERTIES OF CONDUCTIVE THERMOPLASTIC
	COMPOSITES
	<u>Fulga Tanasă</u> ¹ , Mădălina Zănoagă ¹ , Yevgen Mamunya ²
	1 "Petru Poni" Institute of Macromolecular Chemistry, Iași, România
	² Institute of Macromolecular Chemistry National Academy of Sciences of Ukraine Kyiy

P15 APPLICATIONS IN PHOTO-FENTON CATALYSIS

Ukraine

Marius Sebastian Secula, Mihaela Darie, Gabriela Caria

"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania

P16	FeNPs/ZnMe(Me=Al³+, Cr³+, Fe³+) SELF-ASSEMBLED NANOARCHITECTURES FOR FLEXIBLE GUANOSINE-BASED HYDROGELS FOR BIOMEDICAL APPLICATIONS
	<u>Gabriela Pricope</u> , Dragos Peptanariu, Alexandru Rotaru, Mariana Pinteala,
	Mihail Barboiu
	Centre of Advanced Research in Bionanoconjugates and Biopolymers, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P17	STEROLS IN DATURA INOXIA AS POTENTIAL KEY SOURCE SPECIFIC TRACERS
	FOR ORGANIC COMPONENTS IN AMBIENT ATMOSPHERIC AEROSOL
	PARTICLES
	Georgiana Mardare (Balusescu), 1 Romeo Iulian Olariu ^{1,2} , Cecilia Arsene ^{1,2}
	1"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania
	2"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science
P18	Studies in the North Eastern Region – CERNESIM, Iasi, Romania CELLULOSE PHOSPHATE MICROPARTICLES FOR DYES ADSORPTION
110	Dana M. Suflet, <u>Irina Popescu</u> , Irina M. Pelin
	Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania
P19	CRYSTALLIZATION DYNAMICS OF SOME COPOLYAMIDE-CLAY HYBRID
	MATERIALS AS FUNCTION OF FILLER CHARACTERISTICS
	Mădălina Zănoagă, Cristian V. Grigoraș, Fulga Tanasă
	"Petru Poni" Institute of Macromolecular Chemistry, Iași, România
P20	NICKEL COMPLEXES OF GUANIDINE FUNCTIONALIZED SILOXANES
	Lucia Pricop, <u>Maria Emiliana Fortuna</u> , Daniel Țampu, Valeria Harabagiu
D24	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P21	ORGANIC FUNCTIONALIZED GRAPHENE OXIDE AS A COMPOSITE MATERIAL
	WITH MULTIPLE APPLICATIONS <u>Petre Ionita^{1,2}</u> , Ahmed J. Shakir ² , Ioana Turcu, ² Anca Coman ²
	¹ Institute of Physical Chemistry, Bucharest, Romania
	² University of Bucharest, Faculty of Chemistry, Bucharest, Romania
P22	FAST REMOVAL OF AMARANTH DYE FROM WASTEWATERS USING COBALT
	FERRITE
	Razvan Rotaru, Petrisor Samoila, Corneliu Cojocaru, Petronela Pascariu
	Dorneanu, Liviu Sacarescu, Valeria Harabagiu
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P23	SOLVENT TUNABLE SELF-ASSEMBLY OF AN AMPHIPHILIC POLYTHIOPHENE
	IN "HAIRY-ROD" ARCHITECTURE: POLYMERIC NANOSTRUCTURES WITH
	VARIABLE SHAPE AND SIZE
	Luminita Cianga, Anca-Dana Bendrea, Elena Gabriela Hitruc, Ioana-Andreea
	Turin-Moleavin, Ioan Cianga "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
P24	STRUCTURE AND ELECTRICAL PROPERTIES OF SEGREGATED POLYMER
	COMPOSITE
	Oleksii Maruzhenko ¹ , Yevgen Mamunya ¹ , Volodymyr Levchenko ¹ ,
	Sławomira Pusz², Urszula Szeluga2, Bogumiła Kumanek²
	¹ Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine, Kyiv,
	Ukraine
D0 =	² Centre of Polymer and Carbon Materials, Polish Academy of Sciences, Zabrze, Poland
P25	STRUCTURAL FEATURES OF POLYMER COMPOSITES BASED ON EPOXY
	RESINS AND LITHIUM PERCHLORATE SALTS Mathematica Malagara Language Malagara
	Matkovska Liubov, Tkachenko Igor, Iurzhenko Maksym Institute of Macromolecular Chemistry of the National Academy of Sciences of Ukraine
	Institute of Macromolecular Chemistry of the National Academy of Sciences of Ukraine, Kviv, Ukraine

P26 SORPTION FEATURES OF HYDROPHILIC HYBRID ORGANIC-INORGANIC POLYMER SYSTEMS

Iurzhenko Maksym¹, Mamunya Yevgen¹, Boiteux Gisele²

- ¹Institute of Macromolecular Chemistry of National Academy of Sciences of Ukraine, Kyiv, Ukraine
- ² Université de Lyon, Université Lyon 1, Ingénierie des Matériaux Polymères, UMR CNRS, Lyon, France

P27 NANOTEXTURING AND OPERATIONAL PROPERTIES OF WELDED JOINTS OF DIFFERENT TYPES OF TECHNICAL POLYETHYLENES

Iurzhenko Maksym^{1,2}, Demchenko Valeriy^{1,2}, Korab Mykolay¹, Galchun Anatoliy¹, Kondratenko Volodymyr¹, Shadrin Andriy¹

- ¹ Plastics Welding Department, E.O.Paton Electric Welding Institute, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- ² Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine, Kiev, Ukraine

P28 EFFECT OF HEAT TREATMENT ON THE DIELECTRIC PROPERTIES OF THE ELECTROACTIVE HYBRID POLYMERS BASED ON EPOXY RESINS AND LITHIUM PERCHLORATE SALTS

Iurzhenko Maksym¹, Matkovska Liubov¹, Kochetov Roman², Mamunya Yevgen¹, Boiteux Gisele³, Serghei Anatoli³

- ¹Institute of Macromolecular Chemistry of National Academy of Sciences of Ukraine, Kyiv, Ukraine
- ²ABB Switzerland Ltd, Corporate Research Insulation & Polymer Technologies, Aargau, Switzerland
- ³ Université de Lyon, Ingénierie des Matériaux Polymères, Lyon, France

P29 FEATURES OF PROCESSING AND NANOSTRUCTURIZATION OF WELDED JOINTS OF THE HEAT-RESISTANT PLASTICS

Iurzhenko Maksym^{1,2}, Demchenko Valeriy^{1,2}, Korab Mykolay¹, Galchun Anatoliy¹, Kondratenko Volodymyr¹, Shadrin Andriy¹

- ¹ Plastics Welding Department, E.O.Paton Electric Welding Institute, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- ² Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine, Kiev, Ukraine

P30 APPLICATION FEATURES OF RADIATION TECHNOLOGIES (LASER RADIATION) FOR PLASTICS WELDING

Iurzhenko Maksym^{1,2}, Bernadskiy Artem¹, Lukashenko Volodymyr¹, Lukashenko Dmitriy¹, Demchenko Valeriy^{1,2}, Kovalchuk Maxim¹, Fedoseeva Olga¹, Lytvynenko Yuliya¹, Pidlisnyi Andriy¹

- ¹ Plastics Welding Department, E.O.Paton Electric Welding Institute, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- ² Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine, Kiev, Ukraine















