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UNIVERSITATEA
"ALEXANDRU I. CUZA" IASI

The 2nd NATIONAL CONFERENCE WITH
INTERNATIONAL PARTICIPATION

NANOSTRUCTURED MULTIFUNCTIONAL MATERIALS

CONFERENCE PROGRAM

NMM 2010

November 4 - **5, 2010, Iași, ROMANIA**

Organized by the

**Al. I. Cuza University of Iasi, Faculty of Chemistry
Department of Chemistry, Laboratory of Materials Chemistry,
11 Bd. Carol I, 700506 Iasi, ROMANIA**

<http://www.chem.uaic.ro/~nmm/>

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CONFERENCE TOPICS

- 1. NANOSTRUCTURED POROUS MATERIALS**
- 2. NATURAL AND SYNTHETIC ZEOLITES**
- 3. MESOSTRUCTURED MATERIALS: SYNTHESIS AND MODIFICATION**
- 4. CATIONIC AND ANIONIC CLAYS**
- 5. ENVIRONMENTAL APPLICATIONS**
- 6. NOVEL INORGANIC AND ORGANIC - INORGANIC HYBRID NANOSTRUCTURED MATERIALS**
- 7. NANOBIMATERIALS**
- 8. OTHER ASPECTS OF NANOMATERIALS SCIENCE AND TECHNOLOGY**

CONFERENCE BRIEF SCHEDULE

Thursday, November 4 th		Friday, November 5 th
8 ⁰⁰ – 9 ⁰⁰ REGISTRATION		9 ⁰⁰ – 10 ⁵⁰ IL-5, IL-6, OP-8, OP-9
9 ⁰⁰ - 9 ¹⁵ OPENING CEREMONY		10 ⁵⁰ - 11 ²⁰ Coffee Break and Posters Exhibition Session 3
9 ¹⁵ - 11 ⁰⁵ IL-1, IL-2, OP-1, OP-2		11 ²⁰ - 13 ⁵⁰ IL-7, IL-8, OP-10, OP-11, OP-12, OP-13
11 ⁰⁵ - 11 ³⁵ Coffee Break and Posters Exhibition Session 1		13 ⁵⁰ - 15 ²⁰ LUNCH
11 ³⁵ - 13 ²⁵ IL-3, IL-4, OP-3, OP-4		15 ²⁰ - 17 ³⁰ OP-14, OP-15, IL-9, IL-10, OP-16
13 ²⁵ - 14 ⁵⁵ LUNCH		17 ³⁰ - 18 ⁰⁰ Coffee Break and Posters Exhibition Session 4
14 ⁵⁵ - 15 ⁵⁵ OP-5, OP-6, OP-7		18 ⁰⁰ Closing ceremony
15 ⁵⁵ - 16 ²⁵	Coffee Break and Posters Exhibition Session 2 Round Table Discussions	
20 ⁰⁰ Festive Dinner		

Scientific Program

Thursday, November 4th

8⁰⁰ – 9⁰⁰

Registration

9⁰⁰ - 9¹⁵

Opening ceremony

Session chairs

Prof. dr. Eveline POPOVICI
Prof. dr. Dumitru LUCA
Prof. dr. Neculai BILBA

9¹⁵ - 9⁵⁰

IL-1

Etienne F. Vansant, Laboratory of Adsorption and Catalysis, Dept. of Chemistry, University of Antwerpen, Belgium
NANOPOROUS MATERIALS: CHALLENGES FOR THE FUTURE

9⁵⁰ – 10²⁵

IL-2

Anita Lloyd Spetz, Linköping University, Dept. of Physics, Chemistry and Biology, Sweden
NANOSTRUCTURED & POROUS MATERIALS FOR FET SENSORS

10²⁵ - 10⁴⁵

OP-1

Gabriela Lehotu, Dept. of Chemical Engineering, Faculty of Chemical Engineering and Environment Protection, Technical University “Gh. Asachi” of Iasi, Romania
IRON CONTAINING ANIONIC CLAYS: AN XPS STUDIES OF THEIR SURFACE PROPERTIES

10⁴⁵ - 11⁰⁵

OP-2

Anamaria Baciu, “Politehnica” University of Timisoara, Romania
ANODIC DETERMINATION OF PENTACHLOROPHENOL FROM WATER

11⁰⁵ - 11³⁵

Coffee Break and Posters Exhibition – Session 1

Session chairs

Prof. dr. Alexandra Raluca IORDAN
Prof. dr. Rodica PODE

11³⁵ - 12¹⁰

IL-3

Cătălina Elena Lupușoru, Department of Pharmacology-Algesiology, Faculty of Medicine, “Gr.T. Popa” University of Medicine and Pharmacy, Iași, Romania
THE TOXICITY OF THE NEW SUBSTANCES: IN VITRO AND IN VIVO EVALUATION. ADVANTAGES AND DISADVANTAGES

12¹⁰ - 12⁴⁵
IL-4

Ion Geru, Institute of Chemistry of the Academy of Sciences of Moldova, Chisinau, Moldova
ELECTRON PARAMAGNETIC RESONANCE IN MESOPOROUS CARBON NANOTUBES

12⁴⁵ - 13⁰⁵
OP-3

Jarian Vernimmen, Laboratory of Adsorption and Catalysis, Department of Chemistry, University of Antwerpen, Antwerpen, Belgium
SYNTHESIS OF TI-CONTAINING COMBINED MICRO- AND MESOPOROUS SILICEOUS MATERIALS FOR THE CATALYTIC EPOXIDATION OF CYCLOHEXENE

13⁰⁵ - 13²⁵
OP-4

Narcisa Vrinceanu, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania
STUDY OF A NANOSTRUCTURED POROUS MATERIAL PATTERN OBTAINED THROUGH UV EXCIMER LASER IRRADIATION TREATMENT

13²⁵ - 14⁵⁵

Lunch

Session chairs

Prof. dr. Aurelia VASILE
Prof. dr. Felicia IACOMI

14⁵⁵ - 15¹⁵
OP-5

Doina Lutic, Faculty of Chemistry, Al. I. Cuza University of Iasi, Romania
SOME APPLICATIONS OF POROUS MATERIALS IN GAS AND PARTICLE SENSING

15¹⁵ - 15³⁵
OP-6

Sorina Moțoc, "Politehnica" University of Timisora, Romania
ELECTROCHEMICAL MINERALIZATION OF DRIMAREN BRILLIANT ROTH DYE ON BORON-DOPED DIAMOND ELECTRODES

15³⁵ - 15⁵⁵
OP-7

R. R. Shiriyazdanov, Ufa State Petroleum Technical University, Russian Federation, Bashkortostan Republic, Ufa
HYBRID ORGANIC – INORGANIC NANOSTRUCTURED CATALYSTS FOR ALKYLATION OF ISOBUTANE BY OLEFINS

15⁵⁵ - 16²⁵

Coffee Break and Posters Exhibition - Session 2/Round Table Discussions

20⁰⁰

Festive Dinner

Friday, November 5th

Session chairs

Prof. dr. Mircea PALAMARU
Dr. Doina LUTIC

9⁰⁰ – 9³⁵
IL-5

Felicia Iacomi, Faculty of Physics, "Al.I.Cuza" University, Iasi, Romania
SMART NANOCOMPOSITES FOR FUNCTIONAL APPLICATIONS

9³⁵ - 10¹⁰
IL-6

Gabriela Carja, Department of Chemical Engineering, Faculty of Chemical Engineering and Environmental Protection, Technical University "Gh. Asachi" of Iasi, Romania
TOWARD COMPLEX NANOARCHITECTURES: SELF-ASSEMBLED NANOSTRUCTURES BASED ON LDH ANIONIC CLAYS

10¹⁰ - 10³⁰
OP-8

Elida Cristina Ilinoiu, Faculty of Industrial Chemistry and Environmental Engineering, University "Politehnica" Timisoara, Romania
KINETICS AND EQUILIBRIUM STUDIES OF REACTIVE YELLOW 125 ADSORPTION ON A NITROGEN DOPED TiO₂ MODIFIED ZEOLITE

10³⁰ - 10⁵⁰
OP-9

Mihaela-Nicoleta Holban, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania
SYNTHESIS OF MICROCAPSULES BASED ON NATURAL POLYMERS

10⁵⁰ - 11²⁰

Coffee Break and Posters Exhibition - Session 3

Session chairs

Assoc. Prof. dr. Doina HUMELNICU
Dr. Iulian ASAFTEI

11²⁰ - 11⁵⁵
IL-7

Nicolae Bilba, Faculty of Chemistry, "Al.I.Cuza" University Iasi, Romania
SOLID SORBENTS FOR CO₂ CAPTURE

11⁵⁵ - 12³⁰
IL-8

Mirela Suchea, Electrical Engineering Department, School of Applied Technology, Technological Educational Institute of Crete Stavromenos, Heraklion, Greece
NANOSTRUCTURED METAL OXIDE SURFACES AS ACTIVE LAYERS FOR SMART WINDOWS AND SOLAR ENERGY DEVICES

12³⁰ - 12⁵⁰
OP-10

Lavinia Curecheriu, Dept. of Physics, Al. I.Cuza University, Bv. Carol I no. 11, Iasi, Romania, FROM FE₂O₃@BATIO₃ CORE-SHELL PARTICLES TO MULTIFUNCTIONAL COMPOSITES

12⁵⁰ - 13¹⁰
OP-11

Cosmin T. Mihai, Department of Research, Faculty of Biology, "Al. I. Cuza" University, Iasi, Romania.
MODULATION OF THE CAPTOPRIL INTERFERENCE WITH THE ACTIVITY OF SOME ENZYMATIC BIOMOLECULES IN MONKEY KIDNEY VERO CELLS BY MESOPOROUS SILICA DRUG DELIVERY SYSTEMS

13¹⁰ - 13³⁰
OP-12

Liliana-Andreea Colar, Faculty of Industrial Chemistry and Environmental Engineering, "Politehnica" University of Timisoara, Romania
REMOVAL OF RY 125 FROM AQUEOUS SOLUTION USING A SILVER DOPED TiO₂ MODIFIED CLINOPTILOLITE. PRELIMINARY DARK ADSORPTION STUDIES

13³⁰ - 13⁵⁰
OP-13

R. R. Shiryazdanov, Ufa State Petroleum Technical University, Ufa, Bashkortostan Republic, Russian Federation
NANOCATALYSIS AND THE WAYS OF THE NANOCATALYTICS FORMATION FOR CONVERSION OF LIGHT HYDROCARBONS INTO MOTOR FUELS

13⁵⁰ - 15²⁰

Lunch

Session chairs

Assoc. Prof. dr. Lucian BIRSA
Assoc. Prof. dr. Maria ALEXANDROAEI

15²⁰ - 15⁴⁰
OP-14

Dartu Laura, Department of Chemical Engineering, Faculty of Chemical Engineering and Environment Protection, Technical University "Gh. Asachi" of Iasi, Romania
NANOSIZED SILVER ON HYDROTALCITE-LIKE ANIONIC CLAY AS A NEW ANTIMICROBIAL FORMULATION

15⁴⁰ - 16⁰⁰
OP-15

Elena Mihaela Seftel, Department of Chemistry, "Al. I. Cuza" University of Iasi, Bvd. Carol I, no 11, 700506, Romania
COMPARATIVE STUDY OF THE PHOTOCATALYTIC ACTIVITY OF SOME NANOSIZED SYSTEMS HAVING HT-TYPE PRECURSORS

16⁰⁰ - 16³⁵
IL-9

A. S. Smolyanskii, Karpov Institute of Physical Chemistry, Russian Federation, Moscow
ESR INVESTIGATION OF THE HYDROGEN ATOMS STABILIZATION IN GAMMA-IRRADIATED ZEOLITES CONTAINING VARIOUS ADSORBATES

16³⁵ - 17¹⁰
IL-10

Alfonso NASTRO, Department of Pianificazione Territoriale, University of Calabria, Cosenza, Italy
TITANOSILICATE ETS-10: SYNTHESIS, CHARACTERIZATION AND USES

17¹⁰ - 17³⁰
OP-16

Evelini Popovici, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania
NANOTECHNOLOGY – A NEW FRONTIER IN OUR LIFE

17³⁰ – 18⁰⁰
18⁰⁰

Coffee Break and Posters Exhibition - Session 4
Closing ceremony

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