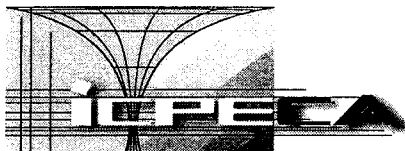




ACADEMIA ROMÂNĂ



INCDIE ICPE-CA

*National Institute for Research and Development in Electrical Engineering,
ICPE-CA, Bucharest*

INVITAȚIE-PROGRAM

BUCUREȘTI
13 februarie 2015

ACADEMIA ROMÂNĂ
Secția de Științe Chimice
Comisia de Analiză Termică și Calorimetrie

INCDIE ICPE-CA
National Institute for Research and Development
in Electrical Engineering,
ICPE-CA, Bucharest

Vă invită să participați la

**LUCRĂRILE CELUI DE-AL 24-LEA SIMPOZION ANUAL
DE COMUNICĂRI ȘTIINȚIFICE - EUGEN SEGAL**

care va avea loc vineri, 13 februarie 2015, ora 8³⁰,
în Amfiteatrul *Heliade Rădulescu* al Bibliotecii
Academiei Române, Calea Victoriei nr.125
(intrarea și prin B-dul Dacia)

Domnului / Doamnei _____

Program:

February 13, 2015, 8³⁰h

**President of the Section of Chemistry Sciences of Romanian Academy,
Acad. Prof. MARIUS ANDRUH**

Opening address

PETRU BUDRUGEAC¹, ANDREI ROTARU^{2,3}

¹National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest

²University of Craiova

³INFLPR - National Institute for Laser, Plasma and Radiation Physics, Măgurele

*Topical trends in Thermal Analysis and Calorimetry. Report on the
"The 11th European Symposium on Thermal Analysis and Calorimetry"
ESTAC 11, Espoo, Finland*

ANDREI ROTARU^{1,2}

¹University of Craiova

²INFLPR - National Institute for Laser, Plasma and Radiation Physics, Măgurele

Thermally-induced processes in relaxor tetragonal tungsten bronzes

**VALENTIN MUNTEANU¹, MARIA MÎȚU²,
DOMNINA RĂZUȘ², DUMITRU OANCEA¹**

¹Department of Physical Chemistry, University of Bucharest

²"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

*Kinetics of methyl tert-butyl ether catalytic oxidation on platinum
using an isothermal microcalorimetric method*

NICOLINA POP

"Politehnica" University of Timișoara, Department of Physical Foundation of Engineering

*Thermodynamic properties of the oscillators systems and correlation
with isokinetic temperature*

**CORNEL HAȚIEGAN¹, NICOLINA POP², MIHAELA RĂDUCA¹,
GILLICH GILBERT RAINER¹, CODRUȚA HAMAT¹, EUGEN RĂDUCA¹,
LENUȚA CÎNDEA¹, IOAN PĂDUREANU¹**

¹Faculty of Electrical and Computer Engineering, "Eftimie Murgu" University, Reșița

²Politehnica University of Timișoara, Department of Physical Foundation of Engineering

Modeling and Simulation of thermal analysis of a teflon coated plate

DANA LUCA MOȚOC

Transilvania University of Brasov, Material Science Department, Brasov
*Dynamic mechanical properties of basalt/flax and carbon/flax
hybrid polymer composites*

TRAIAN ZAHARESCU

National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest
Radiation effects on the thermal stability of EPDM/IIR systems

11-11³⁰

Coffee break

CARMEN PARASCHIV¹, ANDREI CUCOS¹, SERGIU SHOVA²,
AUGUSTIN M. MADALAN³, CĂTĂLIN MAXIM³

¹National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest

²“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

³Inorganic Chemistry Laboratory, Faculty of Chemistry, University of Bucharest, Bucharest

*Synthesis and characterization of new Zn(II) coordination polymers constructed from
amino-alcohols and aromatic dicarboxylic acids*

OANA ANDREEA MIU¹, CRISTINA CARȘOTE²,
ELENA BADEA^{3,4}, PETRU BUDRUGEAC⁵

¹Mira Telecom, Bucharest

²Centre of Research and Scientific Investigation, National Museum of Romanian History, Bucharest

³Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Craiova

⁴Advanced Research for Cultural Heritage – ARCH, National Research and Development Institute for
Textile and Leather, ICPI Division, Bucharest

⁵National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest

*A new method for automatic determination of hydrothermal stability
(shrinkage activity) of historical collagen-based materials by combined
microscopy and image processing techniques*

ANDREI CUCOS¹, CARMEN GAIDĂU², ELENA BADEA^{2,3}

¹National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest

²National Research and Development Institute for Textile and Leather, ICPI Division, Bucharest

³Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Craiova

Studies on denaturation behavior of some chrome-tanned leathers

ELENA BADEA^{1,2}, CRISTINA CARSOLE³, LUCREȚIA MIU²,
GIUSEPPE DELLA GATTA⁴

¹ Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Craiova

² Advanced Research for Cultural Heritage – ARCH, National Research and Development
Institute for Textile and Leather, ICPI Division, Bucharest

³ Centre of Research and Scientific Investigation, National Museum of Romanian History, Bucharest

⁴ Department of Chemistry, University of Turin, Turin, Italy

*Micro differential scanning calorimetry and thermal microscopy
analysis of historical leather*

TEODORA STAICU¹, VIOREL CÎRCU², GABRIELA IONIȚĂ³,
CORNELIU GHICA⁴, VLAD TUDOR POPA³, MARIN MICUTZ^{1,3}

¹ Department of Physical Chemistry, University of Bucharest

² Department of Inorganic Chemistry, University of Bucharest

³ "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

⁴ National Institute of Materials Physics, Bucharest

On bimodal thermally-induced denaturation of collagen type I in acidic solutions

IOANA STANCULESCU^{1,2}, MARIAN VIRGOLICI¹, MIHAELA MANEA¹,
SILVANA VASILCA^{1,2}, COSMIN PINTILIE¹, MIHALIS CUTRUBINIS¹,
DANIEL NEGUȚ¹, BOGDAN LUNGU¹, VALENTIN MOISE¹

¹ IRASM Radiation Processing Department, Horia Hulubei National Institute for Physics
and Nuclear Engineering, Măgurele

² Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest

*Spectral and thermoanalytical study of wooden artifacts consolidated
by radio-polymerization*

VLAD TUDOR POPA

"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

*Microcalorimetric bacterial growth evaluation: problems in signal
processing and interpretation*

ADINA MAGDALENA MUSUC¹, RALUCA DUMITRU²,
ALINA STAN¹, CORNEL MUNTEANU¹, RUXANDRA BIRJEGA³,
ANDREI CUCOS⁴, OANA CARP¹

¹ "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

² University "Politehnica" of Timisoara, Faculty for Industrial Chemistry and Environmental Engineering

³ INFLPR - National Institute for Laser, Plasma and Radiation Physics, Măgurele

⁴ National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest

*Synthesis, characterization and thermoreactivity of some
methylcellulose-zinc composites*

VIOREL SASCA¹, DAN ROȘU^{2,3}, MARIUS-SILVIU MILEA²,
MIHAI-COSMIN PASCARIU⁴, EUGEN ȘIȘU⁵, MIRCEA NICULESCU⁶

¹ Institute of Chemistry Timișoara of Romanian Academy, Timișoara

² "Politehnica" University of Timișoara, Faculty of Industrial Chemistry and Environmental
Engineering, Timișoara

³ INCEMC Timișoara

⁴ "Vasile Goldiș" Western University of Arad, Faculty of Medicine, Pharmacy and
Dental Medicine, Arad

⁵ "Victor Babeș" University of Medicine and Pharmacy of Timișoara, Faculty of Medicine, Timișoara

⁶ "Chemical Semper" Association, Timișoara

Thermal behaviour studies of new homopolynuclear coordination compound
[Fe(C₂O₄)(OH)(OH₂).0.3H₂O]_n

SUZANA MIHAIU¹, IMRE MIKLÓS SZILÁGYI², IRINA ATKINSON¹,
OANA-CATALINA MOCIOIU¹, DÁVID HUNYADI²,
JEANINA PANDELE-CUSU¹, ALEXANDRA TOADER¹,
JÁNOS MADARÁSZ³, GYÖRGY POKOL³, MARIA ZAHARESCU¹

¹ "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

² MTA-BME Technical Analytical Chemistry Research Group of the Hungarian Academy of
Sciences, Budapest University of Technology and Economics, Department of Inorganic and
Analytical Chemistry, Budapest, Hungary

³ Department of Inorganic and Analytical Chemistry, Budapest University of Technology and
Economics, Budapest, Hungary

Thermal decomposition of the intermediates formed during
the synthesis of the ZnO-based TCO's films

VIOREL SASCA, ALEXANDRU POPA, ORSINA VERDES

Institute of Chemistry Timișoara of Romanian Academy, Timișoara

Quantitative measurement of Brönsted acidity from H₃[PMo₁₂O₄₀] and its Cs1 salt,
in bulk and supported on SBA15, by TPD of ammonia

GABRIEL MUNTEANU

"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

Thermo-programmed reduction of magnetite

DANIELA GHEORGHE, SPERANȚA TĂNĂSESCU, IULIA CONTINEANU,
FLORENTINA-CRISTINA MIHĂILESCU, MARIETA BALCAN,
DAN-FLORIN ANGHEL, LUDMILA ARICOV

"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest

Thermodynamic study of some microemulsion systems containing
Diesel and Colza oil used as alternative fuels