



ACADEMIA ROMÂNĂ

INVITAȚIE-PROGRAM

BUCUREȘTI
14 februarie 2014

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

Vă invită să participați la

**LUCRĂRILE CELUI DE AL 23-LEA SIMPOZION
ANUAL DE COMUNICĂRI ȘTIINȚIFICE**

care va avea loc vineri, 14 februarie 2014, ora 8³⁰,
în Amfiteatrul *Heliade Rădulescu* al Bibliotecii
Academiei Române, Calea Victoriei nr.125
(intrarea și prin B-dul Dacia)

Domnului / Doamnei _____

Program:

February 14, 2014, 8³⁰h

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

Opening address

ANDREI ROTARU¹, PETRU BUDRUGEAC², CRIȘAN POPESCU³

¹ INFLPR – National Institute for Laser, Plasma and Radiation Physics

² National Institute for R&D in Electrical Engineering ICPE-CA, București

³ RWTH Aachen, Germany

*Thermal Analysis and Calorimetry Conferences – Increasing
the number of meetings and participants in our region*

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

¹ Physical Chemistry Department, University of Bucharest

² "Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, București

Kinetics of isothermal ignition of oxygenated fuel-air mixtures on platinum wire

ALEXANDRA CARMEN GRIGORIE^{1,2},

PAUL ALBU^{1,3}, IONUȚ LEDEȚI^{1,4}, ADRIANA FULIAȘ^{1,4},

GABRIELA VLASE¹, NICOLAE DOCA^{1,5}, TITUS VLASE^{1,5}

¹ West University of Timisoara, Research Centre for Thermal
Analysis in Environmental Problems, Timișoara

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

³ Pharmacy and Dentistry, Department of Pharmacy, Faculty of General Medicine,
"Vasile Goldis" West University of Arad

⁴ University of Medicine and Pharmacy "Victor Babeș", Faculty of Pharmacy, Timișoara

⁵ SCIENT – Research Centre for Instrumental Analysis (S.C. CROMATEC_PLUS S.R.L.), București

DSC study of thermal induced interactions

V. Z. SASCA, ORSINA VERDES, A. POPA

Institute of Chemistry Timisoara -Romanian Academy

The estimation of thermal endurance for some heteropoly acidic catalysts with Keggin structure from thermogravimetric decomposition data

ADINA MAGDALENA MUSUC¹, MIHAELA BADEA-DONI²,
LUIZA JECU², V. T. POPA¹

¹ "Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, București

² National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM, București

Kinetic analysis of polyethylene biodegradability evaluated by microcalorimetry

OANA CĂTĂLINA MOCIOIU¹, MARIA ZAHARESCU¹,
IRINA ATKINSON¹, ANA-MARIA MOCIOIU², PETRU BUDRUGEAC³

¹ "Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, București Romania

² Department of Research and Materials Investigation, National R&D Institute of
Textile and Leather, București

³ INCDIE- ICPE-CA Advanced Research Institute for Electrical Engineering, București

Study of crystallization process of soda lead silicate glasses by thermal and spectroscopic methods

ANCA MIHAELA MOCANU¹, C. MOLDOVEANU²,
GHE. ZBANCIOC², LUCIA ODOCHIAN²

¹ „Gh. Asachi” University, Faculty of Chemical Engineering and Environmental Protection, Iași

² “Al. I. Cuza” University, Faculty of Chemistry, Iași

Correlation study: Structure – Thermal stability - Thermal degradation mechanism under nitrogen atmosphere of some metal hydrazinic complexes

MARKUS MEYER, ALEXANDER SCHINDLER, ELENA MOUKHINA

Netsch Gerätebau, Selb, Germany

Automatic evaluation of DSC curves for polymer identification

11-11³⁰

Coffee break

MIRCEA CIOCIANU

O.F. Systems s.r.l., București

The Flash DSC 1 A Novel Rapid Scanning Calorimeter

DAN ROȘU, MARIUS MILEA, MIRCEA NICULESCU

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

The magnetic properties and the structural characterization of the coordination compound and their thermal decomposition products obtained through the reaction of 1,2-ethanediol with metallic nitrates

ANDREI ROTARU^{1,2}, FINLAY D. MORRISON¹

¹ University of St Andrews, School of Chemistry, Scotland, United Kingdom

² INFLPR – National Institute for Laser, Plasma and Radiation Physics, Romania

Investigating the effects of sintering and measuring conditions on the relaxor properties of TTB ceramic materials

CARMEN PARASCHIV,¹ ANDREI CUCOS,¹ CATALIN MAXIM,²
AUGUSTIN MADALAN,² VIRGIL MARINESCU¹

¹ National Institute for R&D in Electrical Engineering ICPE-CA, București

² University of Bucharest, Faculty of Chemistry

New Zn(II) coordination polymers assembled in the presence of aminoalcohols and polycarboxylic acids. Synthesis, structure, and thermal behavior

LUMINITA PREDOANA¹, ANDREI JITIANU², SILVIU PEDA¹,
BARBARA MALIC³, MARIA ZAHARESCU¹

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² Lehman College, City University of New York, Department of Chemistry, USA

³ Jozef Stefan Institute, Ljubljana, Slovenia

Thermal behavior of Li-Co-Ca water based gels as precursors for LiCoO₂ powders

M. BREBU¹, I. BUNIA¹, M. SILION¹, K. MURATA²

¹ "Petru Poni" Institute of Macromolecular Chemistry, Iași

² Toyohashi Chamber of Commerce and Industry, Toyohashi, Japan

On the molecular mass of pyrolysis oils from polyolefins

ELENA PARPARITA¹, RALUCA NICOLETA DARIE¹,
CARMEN-MIHAELA POPESCU¹, MANUELA TATIANA NISTOR¹,
MARIA-CRISTINA POPESCU¹, TRAIAN ZAHARESCU²,
CORNELIA VASILE¹

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Department of Physical Chemistry of Polymers, Iași

² National Institute for Electrical Engineering (ICPE CA) Department of Advanced Materials,
Radiation Processing Lab., București

Thermal behaviour of polypropylene/biomass composites materials

ELENA PARPARITA¹, TRAIAN ZAHARESCU², CORNELIA VASILE¹

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Department of Physical Chemistry of Polymers, Iași

² National Institute for Electrical Engineering (ICPE CA) Department of Advanced Materials,
Radiation Processing Lab., București

*Chemiluminescence as method for thermal characterization of gamma
irradiated polypropylene/biomass composites materials*

DANA LUCA MOȚOC

Materials Science Department, Transilvania University, Brașov

*Towards "all green" hybrid polymer composites tailored
by the aid of DMA investigations*

ANDREEA NEACȘU, SPERANȚA TĂNĂȘESCU

"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, București
*Effect of TiO₂ nanoparticle morphology on adsorbed human serum albumin
structure and function: thermal analysis of corona formation*

ANDREI CUCOS¹, PETRU BUDRUGEAC¹, LUCREȚIA MIU²

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

² R&D Textile and Leather National Institute - Division Leather and Footwear
Research Institute, București

*DMA and DSC studies on denaturation in water and in dry state of parchments
subjected to accelerated ageing*

CRISTINA CARȘOTE¹, PETRU BUDRUGEAC²,
IRINA PETROVICIU¹, LUCREȚIA MIU³, ELENA BADEA^{3,4}

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⁴Department of Chemistry, Faculty of Sciences, University of Craiova

Leather characterization by thermal analysis for improved microclimate conditions

ROMICĂ SANDU, VLAD TUDOR POPA

"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, București

Atenolol Self-Association: Calorimetric Titration and Mining Minima Calculations

DANIELA GHEORGHE¹, ANA NEACȘU¹, IULIA CONTINEANU¹,
ȘTEFAN PERIȘANU², SPERANȚA TĂNĂSESCU¹

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The calorimetric study of L- and D- isomers of tryptophan