



ACADEMIA ROMÂNĂ

*INVITAȚIE-PROGRAM*

BUCUREȘTI  
17 februarie 2012

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

Vă invită să participați la

**LUCRĂRILE CELUI DE-AL 21-lea SIMPOZION ANUAL  
DE COMUNICĂRI ȘTIINȚIFICE**

care va avea loc în ziua de 17 februarie 2012, ora 8<sup>30</sup>, în  
Amfiteatrul Ion Heliade Rădulescu al Bibliotecii Academiei  
Române, Calea Victoriei nr. 125  
(intrarea prin B-dul Dacia)

**Domnului (Doamnei) .....**

## Program:

February 17, 2012, 8<sup>30</sup> h

Acad. Prof. Marius Andruh

President of the Section of Chemical Sciences of Romanian Academy

*Opening adress*

J. M. Criado

Instituto de Ciencia de Materiales de Sevilla, C.S.I.C.-Universidad de Sevilla, Spain

*Sample Controlled Thermal Analysis: A challenge for the kinetic analysis of Solid State Reactions and the synthesis of materials*

Adina Magdalena Musuc<sup>1</sup>, Jeanina Pandelescu<sup>2</sup>, Dumitru Oancea<sup>2</sup>

<sup>1</sup>Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania

<sup>2</sup>University of Bucharest, Faculty of Chemistry, Department of Physical Chemistry, Bucharest, Romania

*Kinetic analysis of thermal decomposition in solid state and melt of some 2,4-dinitrophenylhydrazones*

Paul Albu<sup>1</sup>, Gabriela Vlase<sup>1</sup>, Nicolae Doca<sup>1</sup>, Titus Vlase<sup>1</sup>, Constantin Bolcu<sup>1</sup>,  
Mariana Anghel<sup>2</sup>, Adriana Fulias<sup>3</sup>, Carmen Alexandra Grigorie<sup>1</sup>,  
Iolanda Tolan<sup>4</sup>

<sup>1</sup>West University of Timișoara, Research Center for Thermal Analysis in Environmental Problems, Timișoara, Romania

<sup>2</sup>"Victor Babeș" University of Medicine and Pharmacy, Dept Epidemiol, Timișoara, Romania

<sup>3</sup>"Victor Babeș" University of Medicine and Pharmacy, Faculty of Pharmacy, Timișoara, Romania

<sup>4</sup>Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, Arad, Romania

*Thermal behaviour of some bioactive materials, of isocyanate-based organic-inorganic composites, of some natural pentacyclic triterpenoids, of some local anesthetic drugs and mixture of food additives with polysaccharides respectively deposit proteins*

R. Sandu<sup>1</sup>, C. Tablet<sup>2</sup>, V.T. Popa<sup>1</sup>, S. Tanasescu<sup>1</sup>, M. Hillebrand<sup>2</sup>

<sup>1</sup>Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania

<sup>2</sup>Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest, Romania

*Calorimetric study of interaction of some  $\beta_1$ -blocker drugs with  $\alpha$ -,  $\beta$ -,  $\gamma$ -cyclodextrins and human serum albumin*

Andreea Neacsu, Ana Neacsu, Iulia Contineanu, Speranta Tanasescu  
Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania  
*Thermodynamics of inclusion complex formation of  $\alpha$  - and  $\beta$  - cyclodextrins with  
tryptophan (D-, L- Trp optical isomers) in water*

Iulia Contineanu<sup>1</sup>, Ana Neacșu<sup>1</sup>, Ștefan Perişanu<sup>2</sup>, Speranța Tănăsescu<sup>1</sup>  
<sup>1</sup>Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania  
<sup>2</sup>Laboratory of General Chemistry, Polytechnic University of Bucharest, Bucharest, Romania  
*The calorimetric study of L-, D- and DL threonine isomers*

V. Z. Sasca, Livia Avram, Orsina Verdes, A. Popa  
Chemistry Institute of Romanian Academy-Timisoara, Timisoara, Romania  
*Influences of Pd doping on the thermal stability of the  $Cs_xH_{3-x}PW_{12}O_{40}$  catalysts*

Markus Meyer  
Netzsch - Germany  
*Advanced gas analysis by means of TGA/STA-GCMS coupling with application  
examples*

11-11<sup>30</sup>

Coffee break

Stéphan Moreau  
SETARAM – France  
*Setaram analysers: unique features for special applications*

Mihaela Badea<sup>1</sup>, P. Budrugaec<sup>2</sup>, Eugen Segal<sup>1</sup>  
<sup>1</sup>Faculty of Chemistry, University of Bucharest, Bucharest, Romania  
<sup>2</sup>INCDIE ICPE-CA, Bucharest, Romania  
*Thermal Stability of some coordination compounds of transitional amides*

Gabriel Munteanu<sup>1</sup>, Petya Petrova<sup>2</sup>, Lyuba Ilieva<sup>2</sup>  
<sup>1</sup>Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania  
<sup>2</sup>Institute of Catalysis, Sofia, Bulgaria  
*The effect of cobalt oxide on the reducibility of Au/CeO<sub>2</sub> catalysts evidenced by TPR  
measurements*

Valentina Elena Musteata, Virgil Barboiu  
„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania  
*Dielectric Thermal Analysis for an Amorphous Donor-Acceptor Copolymer*

Silvia Patachia<sup>1</sup>, Manuela Tatiana Nistor<sup>2</sup>, Cornelia Vasile<sup>2</sup>  
<sup>1</sup>“Transilvania” University of Brasov-Romania, Chemistry Department, Brasov, Romania  
<sup>2</sup>„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania  
*Thermal behaviour of wood treated with ionic liquid*

Cristian-Dragos Varganici, Oana Ursachi, Constantin Gaina, Viorica Gaina,  
Bogdan C. Simionescu  
„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania  
*DSC studies on thermoreversible and non-thermoreversible hybrid materials*

Sorin D. Ilie<sup>1</sup>, Radu Setnescu<sup>2,3</sup>, Marius Lungulescu<sup>1,3</sup>, Tanta Setnescu<sup>2,3</sup>,  
Diana Ilie<sup>3</sup>  
<sup>1</sup> European Organization for Nuclear Research (CERN), Switzerland  
<sup>2</sup> Valahia University of Targoviste, Faculty of Sciences, Targoviste, Romania  
<sup>3</sup> INCDIE ICPE-CA, Bucharest, Romania  
*Radiation-induced ageing effects in ethylene-propylene copolymer based materials  
as studied by DSC*

Lucia Odochian<sup>1</sup>, Costel Moldoveanu<sup>1</sup>, Anca Mihaela Mocanu<sup>2</sup>,  
Cristina Maria Paius<sup>2</sup>, Nicolae Apostolescu<sup>2</sup>  
<sup>1</sup>“Al. I. Cuza” University, Faculty of Chemistry, Iasi, Romania  
<sup>2</sup> “Gh. Asachi” University, Faculty of Chemical Engineering, Iasi, Romania  
*TG-FTIR study on thermal degradation of casein in nitrogen and air atmosphere*

Andrei Cucos, P. Budrugeac, Sorina Mitrea, Carmen Hajdu  
INCDIE ICPE-CA, Bucharest, Romania  
*The influence of sodium chloride on the melting temperature of collagen crystalline  
fraction in parchments*

Elena Badea<sup>1,2</sup>, Giuseppe Della Gatta<sup>1</sup>, Bartek Pałecz<sup>3</sup>,  
Sebastian B. Tutunaru<sup>2</sup>

<sup>1</sup>Dept of Chemistry IFM, University of Turin, Via Pietro Giuria 9, 10125 Torino, Italy

<sup>2</sup>Faculty of Sciences – Chemistry, University of Craiova, Calea Bucuresti, 107 I, 500112 Craiova,  
Romania

<sup>3</sup>Dept of Physical Chemistry, University of Lodz, ul. Pomorska 165, 90-236 Lodz, Poland

*A thermal stability approach for some series of uncharged small peptides by DSC*

Andrei Zabulica, Luminita Marin, Mitica Sava

„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

*Mesomorphic behavior of symmetric liquid crystal dimers containing a luminescent mesogen*