



ACADEMIA ROMÂNĂ

INVITAȚIE- PROGRAM

BUCUREȘTI
11 februarie 2011

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

Vă invită să participați la

**LUCRĂRILE CELUI DE AL 20-LEA SIMPOZION
ANUAL DE COMUNICĂRI ȘTIINȚIFICE**

care va avea loc vineri, 11 februarie 2011, ora 8³⁰,
în Amfiteatrul *Heliade Rădulescu* al Bibliotecii
Academiei Române, Calea Victoriei nr.125
(intrarea și prin B-dul Dacia)

Domnului / Doamnei _____

Program:

February 11, 2011, 8³⁰h

Acad.prof. MARIUS ANDRUH
President of the Section of Chemistry Sciences of Romanian Academy
Opening adress

Dr. OANA CARP
Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy, Bucharest
*The Commission of Thermal Analysis and Calorimetry
of the Romanian Academy at the Twentieth Aniversary*

Prof.dr. N. DOCA
West University of Timisoara, Research Center for Thermal Analysis in
Environmental Problems, Timisoara
European Research in Thermal Analysis and Calorimetry

P. ALBU¹, A. MOGOS¹, M. ANGEL², C. GRIGORIE¹, D. GRUIA¹, C. BOLCU¹,
E. SISU², N. POP³, G. VLASE¹, N. DOCA¹, T. VLASE¹

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

² University of Medicine and Pharmacy of Timisoara

³ Politehnica University of Timisoara

*New results obtained by the Thermal Analytical Group
from the West University of Timisoara*

E. SEGAL

University of Bucharest, Faculty of Chemistry, Department of Physical Chemistry, Bucuresti
Euclidian and fractal kinetic equations for solid state reactions

V. SASCA, ORSINA VERDES, LIVIA AVRAM, A. POPA

Institute of Chemistry of Romanian Academy, Timisoara

*The compensation effect and physical meaning study on kinetic parameters
of the $H_3P_{12}W_{40}$ and $Cs_xH_{3-x}P_{12}W_{40}$ decompositions*

P. BUDRUGEAC

INCIE ICPE – CA, Bucharest

*A new iterative model-free method to determine the activation energy of
non-isothermal heterogeneous processes*

GABRIEL MUNTEANU¹, PETYA PETROVA², LYUBA ILIEVA²

¹ Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy, Bucuresti

² Institute of Catalysis of the Bulgarian Academy of Sciences, Sofia, Bulgaria

TPR of pure and gold promoted CeO₂ catalysts doped with cobalt

MARKUS MEYER

Netzsch - Germany

Thermophysical Characterization of Nanomaterials by means of Laser Flash Analysis and Dilatometry

11⁰⁰-11³⁰

Coffee break

NORA GRIGOROIU

OFSYSTEM - Bucuresti

Flash DSC 1 from METTLER TOLEDO, the Fastest DSC to study the new materials for the future

RADU R. PITICESCU¹, MADALINA POPESCU¹,

ALBERTO COELLA², DRAGOS TALOI^{1,3}

¹ National Institute for Non-ferrous and Rare Metals, 102 Biruintei Blvd, Pantelimon, Ilfov, Romania

² Centro Sviluppo Sistemi a Grande Interfase, MBN Nanomaterialia, Treviso, Italy

³ Politehnica University of Bucharest, Faculty of Materials Science and Engineering

Thermal characterization of reactive powder systems obtained by high energy ball milling

S. PEDA¹, V. TEODORESCU², ADINA MUSUC¹,

C. ANDRONESCU¹, MARIA ZAHARESCU¹

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² National Institute for Research and Development on Materials Physics, Magurele

Influence of the precursors on the thermal and structural stability of titanate based nanotubes

CORNELIA MARINESCU¹, ANCUA SOFRONIA¹,

R. BAIES², SPERANȚA TANASESCU¹

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² National Research Institute for Electrochemistry and Condensed Matter, Timisoara

Polymorphic transformations in nanocrystalline titania powders

M. CONSTANTINESCU, E.M. ANGHEL, V.T. POPA
Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy, Bucuresti
*Thermal characterization of latent heat nanocomposites
for heat storage in building*

R. SANDU¹, C. TABLET², V.T. POPA¹,
S. TANASESCU¹, M. HILLEBRAND²

¹ Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy, Bucuresti
² Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest
*The use of the isothermal titration calorimetry method in analysis
of the inclusion processes in cyclodextrins*

O. STEFANESCU¹, C. DAVIDESCU¹, N. DOCA², M. STEFANESCU¹
¹ Politehnica University of Timisoara

² West University of Timisoara, Research Center for Thermal Analysis in
Environmental Problems, Timisoara

*Synthesis and characterization of Fe(III) malonate obtained in the
redox reaction between Fe(NO₃)₃ and 1,3-propane diol*

MIRELA BARBU¹, M. STEFANESCU¹,

T. VLASE², MARCELA STOIA¹

¹ Politehnica University of Timisoara

² West University of Timisoara, Research Center for Thermal Analysis in
Environmental Problems, Timisoara

Obtaining of Mg and Zn chromites by thermal type precursors

ELENA BADEA¹, LUCRETIA MIU², ALEXANDRA KURYSHEVA³,
CRISTINA CARSOLE⁴, GIUSEPPE DELLA GATTA¹

¹ Department of Chemistry IFM, University of Turin, Italy

² National R&D Institute for Textile and Leather-Div. Leather and Footwear, INCDTP-ICPI, București

³ Department of Inorganic Chemistry, Ivanovo State Chemistry & Technology University, Russia

⁴ Department of Investigation and Restoration, National Museum of History, Bucuresti

*Thermal stability of collagen-based historical materials:
a combined DSC and MHT study*

A. CUCOS¹, P. BUDRUGEAC¹, L. MIU², S. MITREA¹, G. SBARCEA¹
¹ INCDIE ICPE – CA, Bucharest

² National R&D Institute for Textile and Leather-Div. Leather and Footwear, INCDTP-ICPI, București

*Evidences of a distinct crystalline fraction of collagen
in parchments and leathers*

SIMONA GAVRILAS, DORINA CHAMBRE, ADINA BODESCU,
MICHAELA DINA STANESCU

AUREL VLAICU University, Faculty of Food Engineering, Tourism and Environmental Protection, Arad
Thermal behaviour of laccase-PVA biocomposite

LUCIA ODOCHIAN¹, C. MOLDOVEANU¹,
ANCA MIHAELA MOCANU², N. APOSTOLESCU²,

¹ „A.I. Cuza” University, Faculty of Chemistry, Iasi

² „Gh. Asachi” University, Faculty of Chemical Engineering and Environmental Protection, Iasi
*TG-FTIR method applied to the study of the thermal degradation mechanism
of additive-containing PTFE in air and under nitrogen atmosphere*

IULIA CONTINEANU¹, M. CONTINEANU²,
ANA NEACSU¹, S. PERISANU³

¹ Institute of Physical Chemistry „Ilie Murgulescu” of the Romanian Academy, Bucuresti

² University of Bucharest, Faculty of Chemistry, Bucuresti

³ Politehnica University of Bucharest

*DSC study of thermal behavior of irradiated and non-irradiated
carcose and L-alanyl glycine*

**Organization problems of the Commission of Thermal Analysis and Calorimetry
of the Romanian Academy**