



Thermo
SCIENTIFIC

BERD
HIGH PERFORMANCE SPECTROMETRY

INVITATION SYMPOSIUM

“Advanced characterization methods by FT-IR and RAMAN spectroscopy”

Organized jointly by University POLITEHNICA of Bucharest, Advanced Polymer Materials Group
and Thermo Scientific, Berd Trading
26 May 2011, VA Hall, 149 Calea Victoriei, 9:30-16:00

Program

9:30-9:45

Welcome

Prof. Horia Iovu- University POLITEHNICA
Bucharest

Thermo Scientific Instruments Division presentation

Dan Bulik- Berd Trading srl
Burkhard Stehl- Thermo Scientific Germany

9:30-11:00

- Theory of IR and Raman
- The Thermo IR and Raman product line
- High end IR applications: Step scan, PEM IRRAS, VCD and examples of applications
- Materials analysis: TGA-IR and GC-IR
- Raman examples of applications:
 - 1.Raman DXR highlights
 - 2.Bulk analysis, raw incoming materials
 - 3.High throughput screening, polymorphs
 - 4.Carbon nanotubes and other carbon forms (graphene)
 - 5.Geology and gemology applications an examples of applications

Bruno J. Beccard- Thermo Scientific France
Tommaso Albertini- Thermo Scientific Italy

11:-11:30

Coffee break

11:30-13:00

- Raman examples of applications- continued:
 - 6.Forensic applications
 - 7.Arts and archeology
- IR microscopy and applications:
 1. iN10 highlights
 2. Imaging vs. point mapping
 3. Bio applications
 4. Polymer applications
 - 5.Failure analysis (introduces a short Raman/IR comparison)

Tommaso Albertini

Bruno J. Beccard

FT-IR and Raman facilities for nanomaterials characterization

Prof Horia Iovu, Group Leader

Monitoring the synthesis of polymer nanocomposites by Raman spectroscopy

Adriana Lungu, Project Team Leader

FT-IR versus Raman for monohybrids characterization

Celina Petrea , PhD Student

13:00-14:00

Lunch

14:00-15:30

Magnetic nanoparticles characterization by Raman and FTIR methods

Dan Mihaiescu, PhD

Thermo Scientific, Trace Elemental products presentation

Burkhard Stehl

Berd Trading SRL, Thermo Scientific distributor

Dan Bulik, Berd Trading

Questions & Answers

Participation confirmation:

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