

## The Hungarian Chemical Society announces a short course on thermal analysis

October 15–17, 2012, Budapest, Hungary

© Akadémiai Kiadó, Budapest, Hungary 2012

The Hungarian Chemical Society announces a 3-day short course on thermal analysis. The course will be based in part on the recent book *Thermal Analysis of Polymers: Fundamentals and Applications* (J. D. Menczel and R. B. Prime, eds.), John Wiley & Sons, 2009 and will be taught by the two editors and leading Hungarian experts of Thermal Analysis. Techniques covered include:

- differential scanning calorimetry (DSC)
- thermogravimetric analysis (TGA)
- thermomechanical analysis (TMA)
- dynamic mechanical analysis (DMA)
- local thermal analysis (micro- and nano-thermal analysis)
- coupled thermal analysis techniques

The basic principles of each technique will be presented, followed by descriptions of the instrumentation and instruction on calibration, how to run an experiment, and a broad range of applications including polymers, pharmaceuticals, life sciences and inorganic materials. In addition, free consultation will be provided to the participants on their specific industrial problems on the third day of the course. The course will end with a demonstration of the most recent instrumentation. Those new to thermal analysis as well as experienced researchers and those that use the information provided by thermal analysis will benefit from this course.

### Speakers

Opening: Prof. Dr G. Liptay, the author of the well-known Atlas of Thermoanalytical Curves (Hungary)

Joseph D. Menczel, PhD (USA)  
R. Bruce Prime, PhD (USA)  
János Kristóf, PhD, DSc (Hungary)  
Dénes M. Lőrinczy, PhD, DSc (Hungary)  
György Pokol, PhD, DSc (Hungary)  
Gábor Várhegyi, PhD, DSc, Doc. Habil (Hungary)  
Judít Simon, PhD, DSc (Hungary)

### Program

1. Differential Scanning Calorimetry (DSC)
  - the basics of DSC
  - DSC of low molecular mass compounds
  - DSC of thermoplastics
  - DSC of thermosets
  - Modulated Temperature DSC
  - fast scan DSC
  - instrumentation
2. Thermogravimetric Analysis (TGA)
3. Thermomechanical Analysis (TMA)
4. Micro- and Nano-Thermal Analysis
5. Dynamic Mechanical Analysis (DMA)
6. Application of thermal analysis to pharmaceuticals
7. Application of thermal analysis to inorganic chemistry
8. Application of thermal analysis to biological substances and food chemistry
9. Application of thermal analysis to biomass systems.
10. A short presentation by the Editor-in-Chief of Journal of Thermal Analysis and Calorimetry on how to prepare an effective thermal analysis publication.

11. Instrument exhibition with live measurements with participation of leading instrumental companies.
12. At the end of the course the presenters will provide 1/2 a day free consultation for all the participants.
13. Diploma will be rewarded.
14. After the course you will be able to acquire a dedicated copy of the Menczel-Prime book.

**Registration:** €550 (+VAT)

**Students:** €300 (+VAT)

Accommodation starting at €32.00

**Further information:** [www.thermanal.mke.org.hu](http://www.thermanal.mke.org.hu)

**Contact:** Beáta Androsits

Managing Director of the Hungarian Chemical Society  
thermal@mke.org.hu