

FAX: 610-644-9030

Registration

I will attend the seminar in:

- Baton Rouge, LA on November 10, 2008
- Houston South - on November 12, 2008
Clear Lake City, TX
- Houston North - on November 14, 2008
George Bush (IAH) Airport, TX

I will be attending the seminar along with the following person(s)

Unfortunately, I will not be able to attend, but please contact me; I am interested in the following applications:

My contact information (please type or print):

Name:

Company/Institution:

Address:

City, State:

ZIP Code:

Phone:

Fax:

E-mail:

Method of Payment: PO Check Cash Visa MC AMEX

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NETZSCH

Leading
Thermal
Analysis.

2008 Applications Seminar Series
for Polymers
in Industry & Development

- Thermal Characterization
- Incoming Goods Inspection
- Quality Control & Assurance
- Failure Analysis
- Process Optimization
- Thermophysical Properties



How can I easily distinguish between different thermoplastics?

How can species evaporation be determined?

How does the atmosphere influence thermal stability?

How can the state of cross-linking be determined and the process optimized?

How can the plasticizer content of a rubber mixture be determined – and what plasticizer material is used?

How can curing be tracked during the process?

How can I distinguish between processing failure and material failure?

How do the visco-elastic properties of the damping element change under high-frequency stress?

How high is the degree of crystallinity of the semi-crystalline thermoplastic molding?

Seminar Goals

Modern thermo-analytical methods are an excellent tool for answering questions such as these in product development, quality control & assurance, failure analysis and research of new products. These methods are even more powerful when coupled to other techniques.

The goal of the seminar is to demonstrate the capabilities of these methods with real life applications from the fields of thermoplastics, thermosets, rubbers, etc.

PRELIMINARY PROGRAM

9:00 a.m.	Doors Open
9:30 a.m.	Welcome Overview of the NETZSCH Instruments Product Lines
9:45 a.m. - 10:30 a.m.	The DSC & TGA Methods: Instrument Specifications & Conditions for Reliable Test Results
Break	<i>DSC & TGA Measurement Preparation</i>
10:45 a.m. - 12:00 p.m.	Quality Control & Failure Analysis by DSC and TGA <i>Including: Thermokinetic Analysis for Optimization and Precise Pre- dictions of the Curing Process</i>
Break	
12:15 p.m. - 1:00 p.m.	TG-FTIR: <i>More than just the sum of its parts*</i>
Lunch Break	
2:00 p.m. - 2:30 p.m.	TG-MS: Another Possibility for Evolved Gas Analysis
2:30 p.m. - 3:15 p.m.	Visco-Elastic Properties of Polymers and Composites by DMA
Break	
3:30 p.m. - 4:15 p.m.	Cross Linking - even in-situ! Optimized Curing of Reactive Resins On-Line by DEA
4:15 p.m. - 4:45 p.m.	Thermal Conductivity of Polymers, Polymer Melts & Rubbers by LFA
4:45 p.m. - 4:55 p.m.	Expertise in Service
4:55 p.m. - 5:45 p.m.	Demos with Working TGA, DSC, LFA, DEA
5:45 p.m.	Wrap-Up & Final Discussion

* Lecture by *Bruker Optics*

Presented by:

NETZSCH Instruments, Inc.

www.e-thermal.com

www.netzsch-thermal-analysis.com

For more information contact:

Isabel Day-Jones

Phone: 610-644-4445

Fax: 610-644-9030

E-mail: isabel.day-jones@netzsch.com

Date	Location
10 November 2008	Baton Rouge, LA
12 November 2008	Houston South, TX
14 November 2008	Houston North, TX

Advance Registration Fee: \$ 45

On-Site Registration Fee: \$ 95

Registration fee includes class notes, breakfast and lunch.

Please note that seating is limited.

Reservations will be made on a first-come, first-served basis, so register soon to be sure you don't miss out on this opportunity.

We are looking forward to welcoming you to our seminar!

In cooperation with **BRUKER OPTICS**

