



First Call for Papers

7th International

Heat Flow Calorimetry Symposium on Energetic Materials- HFCS-EM

Date May 17 to 19, 2010

at TNO Defence, Security and Safety, Rijswijk, The Netherlands

Heat Flow Calorimetry applied with microcalorimeters and in part with other instruments as DSC and ARC has proven as very helpful and suitable tool in assessing the thermal behaviour of energetic materials related to safety, decomposition kinetics, reaction behaviour, performance, in-service time prediction a.o. Energetic materials comprise propellants, explosives, gas generators, pyrotechnics and energetic chemicals in industrial use as well. The 7th HFCS-EM will be an international forum of experts. Industrial safety aspects treated with HFC are included in the list of topics.

Main topics are:

- ▶ *Performance evaluation of energetic materials regarding chemical compatibility, stability, ageing and in-service time periods*
- ▶ *Decomposition kinetics of energetic materials – mechanisms, kinetic descriptions*
- ▶ *Effects of humidity, atmospheres, adsorption-desorption investigated by heat flow calorimetry*
- ▶ *Modelling of thermal effects and hazards*
- ▶ *Use of heat flow / thermal behaviour of energetic materials / chemicals in designing and manufacturing*
- ▶ *Safety assessment of energetic or decomposing chemicals using heat flow techniques*
- ▶ *Evaluation of thermal runaway events by calorimetric techniques*
- ▶ *Testing – measurements and sentencing procedures*
- ▶ *Experimental methods – problems – solutions – developments*
- ▶ *Instrumental improvements and innovations*
- ▶ *Decomposition kinetics of pharmaceutical materials – mechanisms, kinetic descriptions*

Presentations

Contributions to the symposium are mainly orally but the possibility for poster presentation will be given when necessary or asked for.

Please submit an extended abstract not exceeding 500 words with optional figures and tables together with exact title and author(s) and affiliation. After notification of acceptance forward the presentation by email (preferred) or on CD as MS WORD document to the organising chairman.

The presentation will be published as it is on CD-ROM and in booklet form, which will be distributed to the participants on registration at the conference site.

Symposium language English

Deadlines

Abstracts	15-February-2010
Reply to authors	not later than 01-March-2010
Full papers	01-April-2010

Registration fee

The fee will be Euro 600,= (excl. VAT), including abstractbook, proceedings, reception, lunches, excursion and symposium dinner.

HFCS – EM Steering Committee

Dr. Manfred A. Bohn, Fraunhofer ICT, Germany
Prof. Dr. E.L. Charsley, University of Huddersfield, UK
Dr. Bernard Douda, US-Navy, NSWC Crane, Indiana, USA
Dr. Trevor Griffiths, QinetiQ, Fort Halstead, Sevenoaks, UK
Dr. Pierre Guillaume, SME, PB Clermont, Belgium
Mr. Wim de Klerk, TNO, Rijswijk, The Netherlands
Dr. Sarah Pliskin, US-Navy, NSWC Crane, Indiana, USA
Mrs. Helge Schimansky, DENEL, Cape Town, South-Africa

Symposium chairman and submission of Papers

Mr. Wim de Klerk
TNO Defence, Security and Safety, BU-3, High Performance Energetics
P.O. Box 45
2280 AA Rijswijk
NETHERLANDS
Phone : + 31 15 284 3580
Fax : + 31 15 284 3970
E-mail : wim.deklerk@tno.nl or HFCS-7@tno.nl

Conference Registration

Mrs. Carla van Riemsdijk
TNO Defence, Security and Safety, BU-3, High Performance Energetics
P.O. Box 45
2280 AA Rijswijk
NETHERLANDS
Phone : + 31 15 284 3682
Fax : + 31 15 284 3970
E-mail : carla.vanriemsdijk@tno.nl or HFCS-7@tno.nl

Actual information can be found on:

www.hfcs.nl