

First Call for Papers

6th International

Heat Flow Calorimetry Symposium on Energetic Materials- HFCS-EM

Date May 6 to 8, 2008
at Fraunhofer ICT, Pfinztal-Berghausen, Germany

Please note - the formerly announced symposium at

Spier Estates, Stellenbosch, South Africa, September 18 to 20, 2007

has been cancelled due to the tragic death of the Organizing Chairman Fritz van Rooyen

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 6th 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

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 December 15, 2007
Reply to authors January 2008
Full papers March 10, 2008

HFCS-EM Steering Committee

Dr. Manfred A. Bohn, Fraunhofer ICT, Pfinztal-Berghausen, Germany
Prof. Dr. E.L. Charsley, University of Huddersfield, UK
Dr. Anton Chin, US-Navy, NSWC Crane, Indiana, USA
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 Defence, Security and Safety, Rijswijk, The Netherlands
Ms. Hazel Schalkwyk, Denel, Potchefstroom, South Africa

Organising Chairman and Submission of Papers

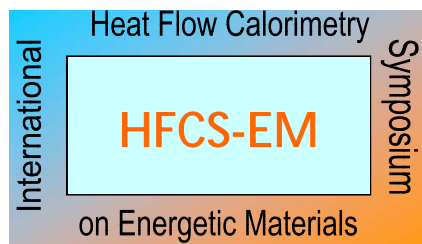
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Conference Management and Registration

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Actual informations can be found on the Web page of ICT

<http://www.ict.fraunhofer.de/english/events/index.html>



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Preliminary Registration

Title last name	
First name(s)	
Affiliation	
Postal Address	
Country	
phone	
Fax	
e-mail	
accompanying person	

Please send preliminary registration form to the conference management

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