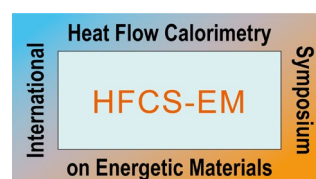


DRAFT PROGRAMME

11th HFCS-EM
 13.-16. May 2019 ||
 76327 Pfinztal, Germany

MONDAY, MAY 13

Monday, May 13	
17.00	Registration
-19.00	at Hotel ACHAT Plaza, Karlsruhe
18.00	Welcome buffet
20.30	End of the day



TUESDAY, MAY 14

Tuesday, May 14		Session
08.30	Bus departs from ACHAT Hotel to Fraunhofer ICT	
08.40	Registration	
09.20	Introduction	
09.40	Heat Flow calorimetry and NSWC Crane <i>Sara Pliskin</i>	
10.10	Coffee break	
10.30	Exhibitor short presentation	
11.00	New accessories and tools for TAM <i>Malin Suurkuusk</i>	Instrumental development
11.30	Modification of TAM III to support multiple test operations <i>Ryan Ubelhor</i>	
12.00	Evaluation of high temperature ageing of a solid gas generant <i>Moritz Heil</i>	Modelling
12.30	Lunch break	
13.30	Thermal behaviour of quasi-autocatalytic decomposing solids <i>Bertrand Roduit</i>	Modelling

Tuesday, May 14		Session	11th HFCS-EM
14.00	Contin. monitoring of shelf lives by applic of data loggers with implem. kinetic parameters <i>Bertrand Roduit</i>		13.-16. May 2019 76327 Pfinztal, Germany
14.30	Scale up from lab to plant with non-isothermal reactions using reaction calorimetry <i>Fabio Visentin</i>	Instrumental development	
15.00	Reaction calorimetry in flow reactors – fast reaction screening and process design <i>Jürgen Antes</i>	Instrumental development	
15.30	Coffee break		
16.00	Applying adiabatic calorimetry for study of energetic materials – is it possible? <i>Arcady Kossoy</i>	ARC	
16.30	Kinetics of thermo-chemical decomposition of RDX in cyclohexanone and g-butyrolactone <i>Manfred Bohn</i>	ARC	
17.00	Ultra-high sensitivity ARC testing a link to STANAG 4582 testing <i>Steve Jones</i>	ARC	
17.30	End of the day		
17.40	Bus departs to KA		

WEDNESDAY, MAY 15

Wednesday, May 15		Session
08.00	Bus departs from ACHAT Hotel to Fraunhofer ICT	
08.25	Organisational remarks	
08.30	A simple question with complex answers - is nitroglycerine compatible with boron potassium nitrate? <i>Ruth Tunnell</i>	Applying HFC
09.00	Use of calorimetric techniques with high explosives <i>Alan Macdonald</i>	Applying HFC

Wednesday, May 15		Session	11th HFCS-EM
09.30	HFC studies of conventional and novel energetic materials <i>Amanda Catherall</i>	Applying HFC	13.-16. May 2019 76327 Pfinztal, Germany
10.00	An investigation into PETN acidity using HFC <i>Alan Macdonald</i>	Applying HFC	
10.30	Coffee break		
11.00	Defining the UK methodology for the stability testing of energetic materials <i>Nigel Rutter</i>	Methodology	
11.30	Blank determination in heat flow calorimetry <i>Michael Ramin</i>	Methodology	
12.00	A way to improve the safe use of closed stainless-steel ampoules <i>Manfred Bohn</i>	Methodology	
12.30	Round Robin testing of multiple heat flow calorimeter types <i>Daniel Ellison, Cassie Hopkins, Ryan Ubelhor</i>		
13.00	Lunch break Offsite networking		
14.15	Bus departs to excursion <ul style="list-style-type: none"> • Visit of UNESCO World Heritage site Maulbronn • Symposium dinner Bus returns to KA		

THURSDAY, MAY 16

Thursday, May 16		Session
08.20	Bus departs from Achat Hotel to Fraunhofer ICT	
08.55	Organisational remarks	
09.00	Assessment of ageing state of several db propellants <i>Manfred Bohn</i>	Double base propellants

Thursday, May 16		Session	11th HFCS-EM
09.30	Assessment of ageing of two developmental db propellants <i>Lee Goetz</i>	Double base propellants	13.-16. May 2019 76327 Pfinztal, Germany
10.00	Heat flow calorimetry of 70mm db srp <i>Ryan Ubelhor</i>	Double base propellants	
10.30	Coffee break		
11.00	Selection of the correct experimental conditions <i>Elena Moukhina</i>		
11.30	Effect of peculiarities of DSC experiment in correctness of the kinetics created <i>Arcady Kossoy</i>	DSC and thermal load	
12.00	Controlled thermal test on high explosive cylinders <i>Virginie Le Gallo</i>	DSC and thermal load	
12.30	Slow Cook-off Modelling for medium caliber ammunition <i>Kevin Miers</i>	DSC and thermal load	
13.00	Closing remarks & lunch break		
14.30	End of the symposium & bus to Karlsruhe		

POSTER

Kinetics-based simulation of thermal explosion – some examples of experimental validation

Arcady Kossoy, P. Grinberg, O. Antonov

Heat flow calorimetry: Innovations for test and evaluation of high energy systems

Ryan Ubelhor, Daniel Ellison, Cassie Hopkins

Method to perform microcalorimetry measurements of carbon dioxide adsorbing onto ceria nanopowders

A.F. Macdonald, B.J. Smith, R.M Harker