

Workshop on Pyrotechnic Combustion Mechanisms Series

- 1st, 10 July, 2004, Fort Collins, USA,
 - B. **Berger**, Factors influencing pyrotechnic reactions
 - D. **Dolata**, Reassessment of the blue light emitter in copper containing pyrotechnic flames
 - E. **Dreizin**, Ignition of Aluminium powders under different experimental conditions
 - J. **Garnier**, Ignition and Combustion of Nanocomposite Al/MoO₃
 - T. M. **Klapötke**, Mechanistic studies concerning the hypergolic ignition between monomethylhydrazine (MMH) and dinitrogen tetroxide (NTO)
 - E.-C. **Koch**, The HSAB principle and its application to energetic materials
 - K. **Kosanke**, Metal Monochloride Emitters in Pyrotechnic Flames — Ions or Neutrals?
 - R. **Webb**, Using Thermodynamic Codes to Simulate Pyrotechnic Reactions
 - V. **Weiser**, Fast emission spectroscopy for a better understanding of pyrotechnic combustion behaviour.

- 2nd, 27th June, 2005, Pfinztal, Germany.
 - M. **Bohn**, Decomposition Parameters of Energetic Components – Experimental Determination Supported by Quantum Chemical Calculations
 - S. **Cudziło**, Formation of Carbon Based Nanostructures by Combustion of Reductant-Halocarbons Mixtures
 - M. **Eremets**, Polymeric Nitrogen
 - S. M. **Peiris**, LASER-INITIATED REACTIONS OF ENERGETIC/THERMITIC COMPOSITES
 - S. **Kelzenberg**, New Approaches to Model Pyrotechnic Reactions
 - H. D. **Ladouceur**, An Overview of the Known Chemical Kinetics and Transport Effects Relevant to Mg/PTFE Combustion
 - D. **Naud**, The Combustion Properties of Novel High-Nitrogen Energetic Materials
 - P. **Politzer**, Computational Analysis of C,N,H-Systems

- 3rd, 15 July, 2006, Fort Collins, USA.
 - K. O. **Christe**, Recent Advances in High-Nitrogen and High-Oxygen Chemistry
 - D. **Clement**, Thermodynamics of Silicon Combustion
 - T. **Foley**, Thermite Handling Practices and Incidents
 - D. **Holley**, Using Taguchi Methodology with Pyrotechnic Systems
 - K. **Kosanke**, An Evaluation of Lightning Thermo Tube TM as a Pyrotechnic Ignition System
 - J. M. **Lombard**, How to validate Pyrotechnic Initiation Submodels
 - J. A. **Puszynski**, Kinetics and Thermodynamics of Heterogeneous Exothermic Noncatalytic Reactions
 - B. **Roduit**, Thermal Stability Studies on Ammonium perchlorate and different B/KNO₃ compositions
 - S. **Son**, Current Issues in the Combustion of Nanoscale Composite Energetic Materials
 - V. **Weiser**, AlH₃ as an ingredient in energetic materials

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- 4th, 25 June, 2007, Pfinztal, Germany : **Modelling of Reaction Products & Temperatures – Round Robin Test Program**
 - J. **Campos**, Thor
 - R. **Claus**, NASA-CEA
 - J.J. **Gottlieb**, CERV
 - S. **Kelzenberg**, ICT
 - B. **Nolång**, EKVI
 - M. **Suceska**, EXPLO
 - E.-C. **Koch**, V. **Weiser**, R. **Webb**, Review

- 5th, 6 October, 2007, Beaune, France.
 - M. **Bohn**, Thermal Stability of Hydrazinium Nitroformate (HNF)
 - S. **Burns**, Personal Protective Equipment
 - A. **Dolgorodov**, Mechanoactivated Energetic Compositions on the Base of Meta-Oxidizer Mixtures
 - P. **Gillard**, Laser diode ignition of some pyrotechnic mixtures: Experimental and Numerical studies
 - A. **Hahma**, Combustion of Aluminium in Detonation
 - A. **Hahma**, Combustion of Aluminium at High Pressures
 - T. **Kuwahara**, Combustion Characteristics of Blackpowder Pyrolant
 - D. **Spitzer**, Synthesis, structural and reactive characterization of miscellaneous nanothermites
 - V. **Weiser**, Modelling Spectral Emission and Radiant Intensity of Infrared Decoy Flares

- 6th, 12 July, 2008, Fort Collins, USA.
 - B. **Berger**, Sensitivity of Nanometric Thermite Compositions
 - K. O. **Christe**, Recent Progress in High-Oxygen Carriers of Interest as Green Replacement for AP and Hydrazine
 - T. M. **Klapötke**, High Performance Replacements for Pyrotechnic Compositions
 - E.-C. **Koch**, Performance Modification of Magnesium/Teflon/Viton (MTV)
 - B. **Roduit**, Determination of SADT and Cook-off Ignition Temperature by Advanced Kinetic Elaboration of DSC Data
 - S. **Subramanian**, Nanoporous Silicon for Energetic Applications

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- 7th, 22 August, 2009, Rotterdam, Netherlands.
 - E. L. **Charsley**, Thermal Studies on Alkali Metal Dinitramides
 - A. **Gash**, Fabrication and Processing of Nanostructured Energetic Composites by Non-Traditional Methods
 - T. T. **Griffiths**, Techniques used to Study the Ignition of Pyrotechnic Compositions
 - B. **Hidding**, Overview on Higher Silanes as Fuels, Combustion Enhancers and Energetic Materials
 - A. **Pivkina**, Combustion of Energetic Materials: Condensed-Phase Reaction Models Based on Experimental Thermal Decomposition Kinetics
 - K. **Tarantik**, Salts of 1-(2-Chloroethyl)-5-nitriminotetrazole – New Pyrotechnic Colorants
 - V. **Weiser**, Combustion Behavior of Metal Particles as Bulk Materials under Different Gases

- 8th, 14 May, 2011, Reims, France.
 - M. **Comet**, Control of the Reactivity of Phosphorus-Based Nanothermites Nanocalorimetry for the characterization and the detection of energetic materials
 - J. **Corbel**, Understanding Strobe Reactions
 - A. **Dolgorodov**, Silicon Based Mechanoactivated Energetic Nanocompositions
 - C. **Rossi**, Multifunctional Nano-Energetical Material on Chip (extended abstract only)
 - M. **Rusan**, Some Recent Aspects of Boron and Silicon in Energetic Materials
 - U. **Schaller**, Triazolium based energetic ionic liquids

- 9th, 9 June, 2012, Denver, USA.
 - S. **Chaudhuri**, Aluminum in Oxidizer Medium, First Principles Calculations of Combustion
 - K. O. **Christe**, Novel High-Oxygen Carriers for Use in Explosives and Propellants
 - L. **Groven**, Reactive Aluminum-Fluorocarbon Composite Particles
 - S. **Knapp**, A new approach on modelling granular pyrotechnic reactions
 - S. **Son**, The effect of doping on the combustion and reaction kinetics of silicon reactives

- 10th, 25 May, 2013, Valencia, Spain.
 - K. O. **Christe**, High Oxidation State Iodine Oxides for Bio-Agent Destruction
 - W. **DeKlerk**, Green Energetics – Why to go green ? The difference shades of green; the challenges to go to less toxic and more environmental benign energetic materials
 - M. **Rusan**, Energetic Materials Based on Azole Borates
 - S. **Scheutzw**, High Nitrogen Materials for Near Infrared Illuminants
 - K. **Sullivan**, Nanocomposite Thermites, Probing Phenomena at Various Time and Length Scales
- T. **VanBeneden**, NATO support to the demilitarization of pyrotechnics

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- 11th, 12 July, 2014, Colorado Springs, USA.
 - M. C. **Grubelich**, Green- does it make sense (Cents)?
 - J.A. **Puszynski**, Additive Manufacturing Techniques For Composite Energetic Materials
 - M. **Rusan**, Development of Environmentally benign Pyrotechnic Formulations Based on Energetic Boron Compounds, Nitrogen Rich Metal Salts and Copper Iodate.
 - C. M. **Sabate**, (*E*)-1,1,4,4,-Tetramethyltetrazene – And Energetic Derivatives Thereof
 - A. P. G. **Shaw**, Factors Affecting Burning Rate in Boron Carbide-Based Pyrotechnics
 - A. S. **Tappan**, Critical detonation thickness in vapor-deposited hexanitroazobenzene (HNAB) films with different preparation conditions

- 12th, 9 July, 2016, Grand Junction, USA.
 - J. **Brusnahan**, Ceramic Fuels in Pyrotechnics
 - M. **Comet**, Hybrid Nanothermites
 - W. **Focke**, Green Time Delays
 - S. **Knapp**, Emission Spectroscopy on Pyrotechnic Mixtures
 - S. **Son**, Tailored Energetic Materials
 - T.W. **Myers**, Explosive Chromophores

- 13th, 26 June, 2017, Pfinztal, Germany
 - L. **Catoire**, Detailed Chemical Kinetic Models for Nanothermites Combustion
 - M. **Comet**, Nanothermites: From Deflagration to Detonation (NSTEX); From Loose Powder to Object (NT-Foams)
 - Z. **Doorenbos**, Bottom Up Fabrication of Pyrophoric Substrates and Structures Utilizing Iron Nanoparticles
 - A. **Gromov**, New Avenues by Thermites Combustion X-rays and Nuclear Processes
 - A. **Kuhl**, Hydrodynamics of Pyrotechnic Explosions
 - W. G. **Proud**, Shock and ignition Properties of Thermites
 - C. **Weinhold**, Glass-based Thermites
 - V. **Weiser**, Theoretical and experimental evaluation of performance data and reactivity of thermite systems