

NTREM 2020
Preliminary program - subject to change

Wednesday April 1, 2020	
Time	Registration
	Lecture hall A1 Session 1 Chair: Ruth Doherty
8:20	Opening speach - University representative
8:40	organization remarks - Pachman
8:50	Zhang - Invited lecture Computational strategy for improving detonation performance of energetic materials
9:20	Sullivan A reaction violence test for evaluating the safety of thermitic formulations
9:40	Grobler Modifying the ignition and combustion performance of the Al/KIO ₄ system with the use of additives
10:00	Morley Time resolved pyrometry for deflagration
10:20	coffee break
10:40	Zverev Photocatalytic processes in laser initiation of energetic materials
11:00	Yan Controllable Combustion Characteristics of Solid Propellants by Interactions of Al ₂ PDA ₂ Oxidizers
11:20	Atceken High Pressure Characterisation of 3,4,5-Trinitropyrazole
11:40	Le Clanche Deceleration of projectiles by liquid foam
12:00	Lunch
	Lecture hall A1 Session 2 Chair: Michel Lefebvre
14:00	Gettings Synthesis of the 3,6-Dinitro-[1,2,4]triazolo[4,3-b][1,2,4]triazolate Anion and Characterization of Its Energetic Salts Khumsri
14:20	Cocrystallisation studies of FOX-7 (DADNE)
14:40	Johansson Automated production of energetic materials using flow chemistry
15:00	Maraden Novel carbon nanomaterials coated with CuO particles via electroless plating for nonothermite
15:20	coffee break
15:40	Warren Investigating interactions between nitroglycerin and various ballistic modifiers in rocket propellants
16:00	Gorn Thermal decomposition of nitropyrazoles: Interplay of predictive electronic structure theory and thermal analysis
16:20	Sizov Carbon materials action on the 1,1'-ferrocendicarboxylic acid salts efficiency on combustion of double-base propellant
16:40	Zhang The Hydrolytic Action of Nitramino Oxadiazole-Based Compounds

Thursday April 2, 2020	
Time	Lecture hall A1 Session 3 Chair: Tatyana S. Pivina
8:00	
8:20	Lease Explosive Derivatives of Erythritol Tetranitrate
8:40	Unger Recent Developments in the Research of Oxygen-rich Energetic Molecules
9:00	Kofen The new energetic material bis(1-oxidotetrazol-5-yl)triazene and its corresponding C ₂ N ₁₁ O ₂₃ -triple anion
9:20	Gruhne Evaluation of Etylenedinitramine as a Building Block in Energetic Materials
9:40	Rečko Investigation on energetic coordination compounds with ammonia
10:00	coffee break
10:20	Melnikov Kinetics and mechanism of primary thermolysis reactions of bicyclooctogen (BCHMX) from highly accurate quantum chemical calculations
10:40	Keerthi Thermal Characteristics of Fluoropolymer Coated Boron Powders
11:00	Atamanov Thermal behavior of RDX under the effect of Graphene - doped complexes of Polydopamine
11:20	Sultan Thermal Decomposition of Benzotrifuroxan (BTF) at high temperature via ReaxFF-Ig Reactive force field Molecular Dynamics
11:40	Group photography before Lunch
12:00	Lunch
	Foyayer Session 4 Chair: Svatopluk Zeman
14:00	Poster Session
16:30	Scientific committee meeting at lecture hall A1
18:30	Social Event Dinner at AFI 18:30 – 22:00

Friday April 3, 2020	
Time	Lecture hall A1 Session 5 Chair: Adam Cumming
8:00	
8:20	Oxley Metabolism of TATP
8:40	Kyprianou Synthesis, isolation and characterisation of oligomer acetone peroxides
9:00	Mochalova Detonation properties of the mixture of nitromethane/polymethylmethacrylate
9:20	Bohn Thermo-chemical decomposition of RDX in cyclohexanone and gamma-butyrolactone
9:40	coffee break
10:00	Lempert High-enthalpy organic components as dispersants of solid fuel for aircrafts with ramjet engine
10:20	Katoh The effect of magnesium oxide as a stabilizer of nitrocellulose
10:40	Kiselev Decomposition Mechanism of o-Nitrotoluene: New Insights From Predictive Electronic Structure Theory
11:00	Gash Accelerated Aging Characteristics of the Explosive LLM-105 and Selected PBXs
11:20	Locking TNT Equivalence Theory, problems, solutions and remaining issues
11:40	Peter Effect of TNT Contaminated Soil on Vegetation in a Controlled Environment using UPLC-qTOF MS and FTIR Profiling Methods
12:00	Closing Session Prize Awards
13:00	