

## NTREM 2026 -agenda

Approx. Time	Wednesday April 22, 2026	Thursday April 23, 2026	Friday April 24, 2026
7:30-8:30	Registration		
	Lecture hall A1 Session 1	Lecture hall A1 Session 3	Lecture hall A1 Session 5
8:30	meeting of speakers with chairman	meeting of speakers with chairman	meeting of speakers with chairman
8:45	Seminar opening & Organization remarks	<b>Matthieu Daniel</b> Database screening for the identification of potential thermostable and powerful explosives	9:00 <b>Raphaël Terreux</b> A new synthetic index enabling AI-guided discovery of novel molecules
9:20	<b>Navid Rahman</b> Synthesis and characterization of salts based on 1,2- bis(5-(trifluoromethyl)-4H-1,2,4-triazol-3-yl)diazene	8:50 <b>Qin Liu</b> Investigation of energy release characteristics of energetic materials	9:20 <b>Martin Braithwaite</b> Prediction of ideal detonation characteristics in high explosives – challenges and opportunities
9:40	<b>Shouei Yiu</b> Investigating the effect of nitration degree on nitroresorcinol-based energetic coordination compounds	9:10 <b>Wei Cao</b> Disc acceleration experiments and simulation of HMX-based aluminized explosives with PTFE addition	9:40 <b>Shiro Kubota</b> Evaluation of mixed gas and solid components in detonation products
10:00	<b>Qing Ma</b> Synthesis and characterization of pyrazolo[3,4- b]pyridine fused insensitive high-energy materials	9:30 <b>Peter Schultz</b> Cycled DSC-analysis of HNS in energetic melts	10:00 <b>Manfred A. Bohn</b> Simulation of heat flow curves from microcalorimetry- What has been achieved already
10:20	coffee break	9:50 <b>Xing-long Li</b> Research on propagation characteristics of explosion shock waves from typical aluminized explosives under negative pressure environment	coffee break
10:40	<b>Lukas Eberhardt</b> Synthesis and physicochemical characterization of energetic salts derived from 5-methyl-1- nitraminotetrazole	10:10 coffee break	<b>Hiroki Matsunaga</b> Thermal decomposition and combustion of ammonium dinitramide-based high energetic ionic liquids with improved ignitability
11:00	<b>Amr Helmy</b> Replacement of RDX by TKX-50 in a putty-plastic bonded explosive based on polydimethylsiloxane (PDMS)	10:30 <b>Geir Petter Novik</b> An emerging safety hazard: triacetone triperoxide formation in aged 2-propanol	11:00 <b>Mary Dean</b> Harmonization of fertilizer safety testing across manufacturing, storage, and transport
11:20	<b>Arnaud Osi</b> Oxidant filled nanoporous carbon as lead-free primary explosive	10:50 <b>Zi-jian Lyu</b> Exploration of differences in anti-static ability of various explosives	11:20 <b>Katsumi Katoh</b> Friction sensitivity testing variations by porcelain consumable type and plate-peg contact state
11:40	<b>Han Gao</b> Study of LLM-105 porous spherulites; preparation, characterization and crystallization mechanism	11:10 <b>Marcin Hara</b> Investigation of the reaction of selected pyrotechnic and explosive mixtures to bullet impact	11:40 <b>Jimmie Oxley</b> Unraveling the actual safety benefits of adding inorganic fillers to ammonium nitrate
12:00	Lunch	11:30 2 min oral poster introduction - 36 posters!	12:00 Closing Session Prize Awards
	Lecture hall A1 Session 2	12:50 Group photography before Lunch	
	meeting of speakers with chairman	13:00 Lunch	
14:00	<b>Harvey J. Newman</b> On the use of a closed vessel to determine the effect of novel ballistic modifiers on the burn rate	Foyer Session 4	
14:20	<b>Davney Ondié-Pandzou</b> Burning velocity of pyrotechnic compositions at various compaction pressures	14:00 Poster Session	
14:40	<b>Kento Shiota</b> Influence of water contamination on the combustion behavior of ammonium dinitramide-based formulation containing monomethylamine and urea		
15:00	coffee break	16:30 Scientific committee meeting at lecture hall A1	
15:20	<b>Karolina Olsen</b> A comparison of different methods in the analysis of the nitrogen content of nitrocellulose		
15:40	<b>Inés Cabete</b> Ageing effects on the structure and chemistry of gun propellants	18:30 Social Event Dinner at Atrium Palace 18:15 – 22:00	
16:00	<b>Suzanne Romeijn</b> Feedstock scarcity, alternative cellulose sources for gun propellants	22:00	
	Guided tour through Pardubice in the footsteps of Silver A 16:45 – 18:30 (max 40 participants)		