

Conference Programme

08 - 10 June 2026, Flekkefjord – Norway

Monday, 8 June 2026 – Børsen, Elvegaten 24, Flekkefjord

18:00	Welcome reception and registration
18:00	Registration opens
19:00	Bar and buffet The musical atmosphere will be provided by pianist Thor Kristian from the Flekkefjord Jazz Club, while Rumen from Hos Åkke will be behind the bar. A local buffet will be served throughout the evening, and we will also present the IMPETUS Conference beer.
23:00	Closing of reception

Tuesday, 9 June 2026 – SPIRA, Elvegaten 1, Flekkefjord

08:00	Registration & Coffee
08:30 - 11:45	Session 1: Welcome and presentation of IMPETUS developments Room: Storsalen
08:30	Welcome Arve Grønsund Hanssen (CEO, IMPETUS)
08:40	Version 11 Release Lars Olovsson (CTO, IMPETUS)
09:45	New IMPETUS Element Technology Kin Fung Chan (Software Developer, IMPETUS)
10:00	Coffee break
10:30	Version 11 Release, cont'd Harald Vistnes (Product Manager, IMPETUS)

11:45	Photo session
12:00	Lunch Served at Grand Hotel
13:00 - 14:00	Session 2: Warheads and Munitions, Part 1/2 Room: Storsalen Moderator: Kin Fung Chan (IMPETUS)
13:00	When the Gun Barrel Breaks: A Simulation Study on Natural Fragmentation Petter Karlsson (Engineer, SAAB Dynamics, Sweden)
13:20	Simulation of Barrel Failure Hans Kristian Jorde (Development Engineer, NAMMO, Norway)
13:40	An Overview of IMPETUS Use for Vulnerability/Lethality Simulation at TDW GmbH Dr. Raphael Gutser (Technical Advisor Lethality Modelling & Simulation, TDW GmbH, Germany)
14:00	Coffee break
14:30 - 15:10	Session 3: Warheads and Munitions, Part 2/2 Room: Storsalen Moderator: Kin Fung Chan (IMPETUS)
14:30	Calibration of a simulation model for explosive reactive armor impacted by kinetic energy penetrators based on highly instrumented experiments Dr. Thibault Poulet (Researcher at the Terminal Ballistics and Hypervelocity Impact Group, Fraunhofer EMI, Germany)
14:50	Numerical and Experimental Investigation of Copper EFP Projectile Formation and Penetration Performance Against RHA Targets Batuhan Gökalp (Mechanical Design Engineer, Roketsan, Turkey)
15:10 - 16:10	Session 4: R&D, Part 1/3 Room: Storsalen Moderator: Maisie Edwards-Mowforth (IMPETUS)
15:10	Performance of Polyurea Pre-Layered Steel Targets under High-Velocity Ballistic Impacts: Experimental and Numerical Study. Dr. habil. Teresa FRAS (Researcher, ISL – French-German Research Institute, France/Germany)
15:30	Linear Shaped Charge Applications for Rapid Breaching of Reinforced Concrete Structures Dr. Daniel Huber (CEO and Founder, SIMBLAST GmbH, Germany)
15:50	Reproducing a Validated Thoracic Non-Lethal Impact Model in IMPETUS Lucas Milakovic (Research Engineer, Royal Military Academy, Belgium)

16:10 – 16:45	Session 5: Soldier Protection Room: Storsalen Moderator: Kin Fung Chan (IMPETUS)
16:10	IMPETUS for soldier protection on the modern battlefield Toivo Hovri (CTO, NFM, Norway)
16:30	Experiences from one week of IMPETUS use Axelle Chauvet (Engineer, NFM, Norway) and Dhuvi Rowen Subramaniam (Engineer, NFM, Norway)
16:45	Closing and practical info for the evening
18:00 - 23:00	Social programme – Midsummer evening cruise on veteran ship M/S Sandnes Enjoy a buffet dinner and drinks on board, with live music by Joe Rusi and local storytelling featuring “When Pirates Became our City Fathers” (1810–1814). Please bring your conference badge. During the conference, the ship will be based at the quay of Eschebrygga, within walking distance of all activities and hotels.

Wednesday, 10 June 2026 – SPIRA, Elvegaten 1, Flekkefjord

08:30	Coffee
09:00 – 09:30	Session 6: IMPETUS Material Objects Room: Storsalen Moderator: Maisie Edwards-Mowforth (IMPETUS)
09:00	HSR objects and Impetus Arena Lars Olovsson (CTO, IMPETUS)
09:30 - 10:30	Session 7: R&D, Part 2/3 Room: Storsalen Moderator: Maisie Edwards-Mowforth (IMPETUS)
09:30	Wooden plates subjected to near-field explosions Jonas Rudshaug (Researcher, Forsvarsbygg, Norway)
09:50	Advanced Simulation of 3D-Printed and Composite Concrete under Contact Detonation and Impact Dr.-Ing. Vahan Zohrabyan (Group Manager Structural Protection, UniBw, Germany)
10:10	Machine Learning for Blast Load Prediction: Our progress and next steps Adam A. Dennis (Numerical Modelling Lead and Blast Protection Researcher, University of Sheffield, UK)

10:30	Coffee break
11:00 - 12:00	Session 8: Digital twins of materials and objects Room: Storsalen Moderator: Vegeir Knudsen (IMPETUS)
11:00	Material objects package calibration and use cases Johan Kolstø Sønstabø (PhD, Principal Engineer, Enodo, Norway)
11:20	Blast Effects on Reinforced Concrete: Validation and Calibration of MAT_MM_CONCRETE Material Parameters Against Experimental Blast Tests Dr. René Costard (Researcher, BAM, Germany)
11:40	Overview of IMPETUS applications at IABG in the area of defence analysis Berkay Bitek (Project Engineer, IABG, Germany)
12:00	Lunch Served at Maritim Fjordhotell
13:00 - 14:20	Session 9: R&D, Part 3/3 Room: Storsalen Moderator: Maisie Edwards-Mowforth (IMPETUS)
13:00	Rebar Modelling in IMPETUS Henrik Sjø (Senior Scientist, FFI, Norway)
13:20	Predicting threat fragmentation using IMPETUS Jan Arild Teland (Principal Scientist, FFI, Norway) and Joseph Cordell (Principal Engineer, Dstl, UK) In collaboration with Mark Bobeldijk (Scientist Innovator, TNO, Netherlands)
13:40	Combined experimental and numerical approach for the characterisation of rate-dependent behaviour of materials Simone Falco (Senior Researcher and Lecturer, University of Oxford, UK)
14:00	FEM–SPH Modelling of Hypervelocity Impact Kayleigh Moore (PhD Student, The University of Edinburgh, Scotland)
14:20	Coffee break
14:50 - 16:10	Session 10: Vehicle protection & survivability Room: Storsalen Moderator: Simon Jesser (IMPETUS)
14:50	Full-Scale Vehicle Mechanical and Structural Response to Blast Loading Michele Denicolò (CAE Engineer, IDV, Italy)
15:10	VAA Command for Vulnerable Area Assessment of Military Vehicles Riccardo Scazzosi (CAE Engineer, IDV SpA, Italy)

15:30	<p>Progress on comparison of test setups for vehicle blast loading Mark William Reynolds (Senior Research Engineer, Qinetiq, UK)</p>
15:50	<p>Accelerate blast resistance optimization coupling process automation, variability analysis and AI-based metamodels Christopher George (CAE Engineer, CIMES, France)</p>
16:10	<p>Business opportunities Dr. Markus Graswald (VP Business Development, IMPETUS)</p>
16:20	<p>Conference closing</p>
	<p>In the afternoon we offer you to select from one of two possible activities followed by dinner</p>
18:00	<p>Crash course in kayaking in the Flekkefjord bay Experience kayaking in Flekkefjord, a town with strong kayaking traditions and home to Olaf Søyland, two-time World Champion in kayaking / sprint canoeing. Be prepared to get wet and bring suitable clothing. Meet up at Flekkefjord Kayak Club, Sundegaten 39.</p>
18:00	<p>Aperitif at Flekkefjord museum with guided tour of old town Explore Flekkefjord on a guided city walk through its historic streets, including the Dutch Quarter, the Fishermen's Wharf, classic architecture and Street Art. Along the way, hear stories about the people who lived here and the events that shaped the town's history.</p>
20:30	<p>Fish soup & bar - M/S Sandnes Enjoy a simple fish soup buffet on board M/S Sandnes, with the bar open and local Norwegian singing traditions brought to life by the Sangforening during dinner.</p>