

14th International Conference on Pressure Surges Eindhoven, The Netherlands; 12th - 14th April 2023

Conference Topics and Sectors

Topics	Sectors
<p><i>Any aspect of pressure surges, fluid transients and waterhammer (academic research or industrial case studies), including:</i></p> <ul style="list-style-type: none"> • <i>Beneficial use of pressure surges, e.g.</i> <ul style="list-style-type: none"> ○ <i>Leak and blockage detection</i> • <i>Fundamentals, e.g.</i> <ul style="list-style-type: none"> ○ <i>Cavitation, column separation</i> ○ <i>New modelling approaches</i> ○ <i>Numerical methods</i> ○ <i>Oscillating and pulsating flow</i> ○ <i>Resonance</i> ○ <i>Software development</i> ○ <i>Surge damping</i> ○ <i>Unsteady friction</i> ○ <i>Visco-elastic pipes</i> • <i>Hydraulic networks, e.g.</i> <ul style="list-style-type: none"> ○ <i>Air management</i> ○ <i>Control system design and operation</i> ○ <i>Geysering</i> ○ <i>Marine risers</i> ○ <i>Pipeline design and integrity</i> ○ <i>Priming, draining, commissioning</i> ○ <i>Pumps, valves and other hydraulic machinery</i> ○ <i>Steam condensation</i> ○ <i>Surge pressure limits</i> • <i>Multiphase transients, e.g.</i> <ul style="list-style-type: none"> ○ <i>Multi-batch transport</i> ○ <i>Slugging</i> ○ <i>Slurries</i> • <i>Safety, e.g.</i> <ul style="list-style-type: none"> ○ <i>Accidents and incidents</i> ○ <i>Condition monitoring</i> ○ <i>Dangerous liquids</i> ○ <i>Fire-fighting systems</i> ○ <i>Maintenance operations</i> ○ <i>Surge protection</i> • <i>Structural effects, e.g.</i> <ul style="list-style-type: none"> ○ <i>Flow-induced vibration</i> ○ <i>Fluid-structure interaction</i> • <i>Other, e.g.</i> <ul style="list-style-type: none"> ○ <i>Flow assurance</i> ○ <i>Fluid power</i> ○ <i>Free-surface transients</i> ○ <i>Haemodynamics</i> ○ <i>Hydropower</i> ○ <i>History</i> ○ <i>Renewable energy and solar power</i> 	<p><i>Any sector where transient pressures occur, including:</i></p> <ul style="list-style-type: none"> • <i>Aerospace</i> • <i>Automotive</i> • <i>Biomedical</i> • <i>Chemical</i> • <i>Domestic housing plumbing</i> • <i>Power generation</i> <ul style="list-style-type: none"> ○ <i>Fossil fuels</i> ○ <i>Hydropower</i> ○ <i>Nuclear</i> • <i>Medicine</i> • <i>Mining</i> • <i>Oil and gas</i> • <i>Petrochemical</i> • <i>Storm drainage</i> • <i>Wastewater</i> • <i>Water</i>