

SIC: Precision Motion Systems & Control
Brabantallen's-Hertogenbosch, The Netherlands, NL
17th - 18th November 2026

Tuesday 17th November 2026

Time (CET)	Programme
08:15 - 09:00	Registration
09:00 - 09:10	Welcome Address by Dick Laro, MI-Partners, NL on behalf of euspen
09:10 - 09:40	Keynote 1: Controls co-design for the Einstein Telescope: Combining fast mechanical simulations with robust optimisers <i>Dr Conor Mow-Lowry, Vrije Universiteit Amsterdam and Nikhef</i>
Chair: Dick Laro	Session 1: Vibration isolation and robotic systems
09:40 - 10:00	SK1.01 Design & control of a Hybrid robot for 3D inspection <i>Salomé Provost-Mattmann, Université Bourgogne Europe, FR (PMC26117)</i>
10:00 - 10:15	S1.02 Performance-Oriented Active Vibration Control of Ultra-Hard Piezoelectric Mounts <i>Aditya Natu, Delft University of Technology, NL (PMC26102)</i>
10:15 - 10:30	S1.03 Precision Pointing Control of a 2-DOF SRM-Based Coarse Pointing Assembly <i>Emre Deniz, TNO, NL (PMSC26135)</i>
10:30 - 10:45	S1.04 Quantum measurement of torsional motion for gravity experiments <i>Vivishek Sudhir, Massachusetts Institute of Technology, US (PMSC26132)</i>
10:45 - 11:05	Discussion
11:05 - 11:30	Coffee & Networking
11:30 - 12:00	Keynote 2: Active vibration control in large scale machine tools <i>Dr. Oier Franco, IDEKO, ES</i>
Chair: Markus Hauf	Session 2: High dynamic positioning systems
12:00 - 12:20	SK2.01 Electrostatic Shear Clamp Concept for EUV Photolithography Stages <i>Byron Seaberg, Massachusetts Institute of Technology, US (PMSC26130)</i>
12:20 - 12:35	S2.02 Dynamic Error Budgeting-Based Optimization of Narrow-Band Multimode Active Vibration Control for an Industrial Wafer Gripper <i>Aditya Natu, Delft University of Technology, NL (PMSC26106)</i>
12:35 - 12:50	S2.03 A novel constrained layer damping concept for improved system dynamic performance <i>Wietse Maas, ASML, Netherlands (PMSC26138)</i>
12:50 - 13:05	S2.04 Development of a Passive Hydraulic Capsule for Mechanical Assistance in Scanning Photolithography Stages <i>Byron Seaberg, Massachusetts Institute of Technology, US (PMSC26131)</i>

13:05 - 13:25	Discussion
13:25 - 14:25	Lunch, Networking & Poster Viewing
Chair: Jens Flugge	Session 3: Multi-axis positioning systems (part 1)
14:25 - 14:45	SK3.01 Magnetically Levitated Planar Motor with Nanometer Precision <i>Bert Kuijpers, Eindhoven University of Technology, NL (PMSC26118)</i>
14:45 - 15:00	S3.02 Hybrid Three-Degree-of-Freedom Positioning System Using Ultrasonic and Electromagnetic Actuators <i>Chenglong Ding, IFW Leibniz Universität Hannover, DE (PMC26104)</i>
15:00 - 15:15	S3.03 Optical detection of registration marks with a laser focus sensor and the NPS6D200 nanopositioning system <i>Steffen Hesse, IMMS GmbH, DE (PMSC26113)</i>
15:15 - 15:30	S3.04 6-DoF pose measurement of a precision hexapod using digital holographic microscopy and the VERNIER library <i>Victorien Lanneau, Institut FEMTO-ST, FR (PMSC122)</i>
15:30 - 15:50	Discussion
15:50 - 16:15	Coffee & Networking
Chair: Jens Flugge	Session 3: Multi-axis positioning systems (part 2)
16:15 - 16:30	S3.05 Metrological characterization of a millimeter-range planar MagLev stage with sub-nanometer resolution for high-speed large-area atomic force microscopy <i>Rudolf Krüger, Physik Instrumente (PI) GmbH & Co. KG, DE (PMSC26123)</i>
16:30 - 16:45	S3.06 Design and Analysis of the 5-phase Planar Motor <i>Evan Andersen, Andersen Electronic Design Ltd, CN (PMSC26126)</i>
16:45 - 17:00	S3.07 Inverted Interferometric Stage Metrology for Large-Area Lithography Using Range-Resolved Interferometry <i>Matthias Krojer, TU Ilmenau, DE (PMSC26127)</i>
17:00 - 17:15	S3.08 Data-driven compensation of position-dependent disturbances: applied to a 6-DOF sample positioning stage <i>Luuk van Sundert, Technical University of Eindhoven, NL (PMSC26129)</i>
17:15 - 17:35	Discussion
17:45 - 18:10	Walk to Three Amigos restaurant (20 minute walk)
18:15 – 21:00	Networking Dinner

Wednesday 18th November 2026

Time (CET)	Programme
08:30 - 09:00	Keynote 3: <i>Prof. Hans Vermuelen, ASML & TU/e, NL</i>
Chair: Jose Yague Fabra	Session 4: Mechatronic system architecture and designs
09:00 - 09:20	SK4.01 Precision Design and Control in Microphysiological Systems (Organs on Chips) <i>David Trumper, MIT, US (PMC26136)</i>
09:20 - 09:35	S4.02 Structure-preserving model reduction of modular high-precision systems <i>Luuk Poort, MI-Partners, NL (PMC26121)</i>
09:35 - 09:50	S4.03 Online Identification of Hysteresis Models for Condition Monitoring of Piezoelectric Actuators <i>Tobias Herkner, Physik Instrumente (PI) SE & Co. KG, DE (PMC26107)</i>
09:50 - 10:05	S4.04 Robust Control of Mechatronic Systems: A practical approach using the Nichols Plot and interpreting the Nyquist Criterion <i>Lukas Konietzny, Carl Zeiss SMT GmbH, DE (PMC26108)</i>
10:05 - 10:20	S4.05 Design and Validation of a Hybrid Tunable Magnet Actuator for Gravity Compensation in a 6-DoF Levitated Stage <i>Nikai Verzijl, TU Delft, NL (PMC26111)</i>
10:20 - 10:35	S4.06 Single-Phase Linear Motor-Driven Split Stage Architecture for High-Acceleration Photolithography Reticle Scanning <i>Yoonsik Kwon, MIT, US (PMC26133)</i>
10:35 - 10:50	Discussion
10:50 - 11:40	Coffee & Poster session
Chair: Sian Moxom	Poster pitch session (quick fire presentations next to your poster) P1.01 Competency Profiling and Production Planning Mechanism of Robotic Machining Incorporating CAD Integrated Cloud Manufacturing for Digital Twin; <i>Abdullah Ali Mamun Anik, University of Huddersfield, UK (PMSC26101)</i> P1.02 Force-Regulated Biaxial Loading for Quantitative Characterization of Vision-Based Tactile Sensors; <i>Geming Chen, Jiangnan University, CN (PMSC26103)</i> P1.03 A Free-Decay Oscillation Method for Hysteresis Characterisation in Precision Flexure Mechanisms; <i>Diederik van Inzen, Fontys university of applied sciences, NL (PMSC26105)</i> P1.04 System Identification for Precision Mechatronic Systems; <i>Kai Karvinen, DE (PMSC26109)</i> P1.05 Displacement Measurement and Anisotropy Investigations of Mineral Cast as a Base for Nanopositioning Systems; <i>Ina Naujokat, IMMS GmbH, DE (PMSC26114)</i>

	P1.06 Fusion of high precision planar Nanopositioning and tip-based Nanometrology; <i>Jaqueline Stauffenberg, IMMS GmbH, DE (PMSC26116)</i> P1.07 On the Influence of Flexible Modes on Rigid-Body Control: A Metric for Sensor–Actuator Configurations; <i>Tobias Thoma, Carl Zeiss SMT GmbH, DE (PMSC26119)</i> P1.08 Active Refractive Index Control for High-Precision Metrology; <i>Sebastian Siebenhaar Technische Universität Ilmenau, DE (PMSC26124)</i> P1.09 Adaptive Control of Parallel Link Type Robot Machine Tool by Observing Cutting forces; <i>Yoshitaka Morimoto, Kanazawa Institute of Technology, JP (PMS26125)</i> P1.10 Design and analysis of a piezoelectric Z/tip/tilt manipulator with millimeter-level motion; <i>Guangbo Hao, University College Cork, IRE (PMSC26128)</i> P1.11 Modular voice-coil reaction force compensation for a pneumatically isolated long-stroke XY stage; <i>Hyo-Young Kim, Tech University of Korea (TU Korea) KR (PMSC26137)</i>
Chair: Dick Laro	Session 5: Linear, angular and position measurement systems
11:40 - 11:55	SK5.01 Robust Amplitude Control for Nanometre-Scale Oscillatory Motion in a Rolling Friction-Dominated Linear Stage <i>Richard Albers, JPE, NL (PMSC26115)</i>
11:55 - 12:10	S5.02 Realization and characteristics of an aerostatically guided nanopositioning axis for high-vacuum applications <i>Ludwig Herzog, IMMS GmbH, DE (PMSC26110)</i>
12:10 - 12:25	S5.03 Monolithic Position Measurement Interferometer Optimized for Electron Beam Applications <i>Victor David, Keysight Technologies Inc., US (PMSC26112)</i>
12:25 - 12:40	S5.04 Observer-Based Control of Flexible Modes for Over-Actuated Motion Systems <i>Max Jans, MI-Partners, NL (PMSC26120)</i>
12:40 - 12:55	S5.05 Design of a Direct-drive Magnetic Wobble Motor for High-Torque-Density Low Power Applications <i>Taryn Loutit, Massachusetts Institute of Technology, US (PMSC26134)</i>
12:55 - 13:15	Discussion
13:15 – 13:25	Closing remarks, Dick Laro, MI Partners, NL
13:25 – 14:00	Lunch and distribution of Precision Fair tickets