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2025 GENERAL ASSEMBLY

Stockholm - Sweden

CIRP-2025-S-3

**SCIENTIFIC TECHNICAL COMMITTEE "S"
(SURFACES)**

Meeting to be held on Thursday, August 21, 2025
8.30 - 12.30

You are kindly invited to participate in the next SURFACES Scientific Technical Committee meeting to be held in Stockholm.

Draft Agenda

1. Opening and introduction of invited guests (H. Haitjema)
2. Discussion and approval of the agenda (H. Haitjema)
3. Discussion and approval of the minutes of the STC-S session at CIRP Winter Meetings 2025 (H. Haitjema)
4. Status report on keynote papers
 - 4.1. 2025: Surface Finishing by Shape-Adaptive Processes (J. Yan)
 - 4.2. 2026: Manufacturing of Structured Surfaces for Tissue Engineering and Regenerative Medicine (G. Lucchetta)
 - 4.3. 2027: Traceability and uncertainty of characterisation of mechanical properties of technological surfaces (M. Galetto)
 - 4.4. Proposal for 2028: Surface Engineering in Additive Manufacturing of Smart and Multi-Functional Composite Materials: Process, Characterization, Integrity, and Functionalization (N. Michailidis)
 - 4.5. Discussion: proposals for 2029
5. STC S cooperative activities
 - 5.1. Surface features observed on metal additive manufacture build layers – Progress Report (J. Fox)
6. CIRP Novel Topics in Production Engineering (CNTPE) (H. Haitjema/B. Mullany)
 - 6.1. On the Formation and Identification of Anomalous Solidified and Liquid Melt Pools in PBF-LB – Update (J. Fox)

7. Short technical presentations and discussions (G. Tosello)
 - 7.1. *Innovative bio-inspired surface structures of compound restrictors for high precision aerostatic bearings* (X. Luo, X. Chen)
 - 7.2. *Simulation of elastically loaded rough contact surfaces for electric contact resistance estimation* (F. Rasetti, G. Bissacco)
 - 7.3. *Automated control of measurement error in nanoindentation by a traceable Digital Twin* (G. Genta, G. Maculotti, L. Giorio, R. Bertolini, E. Savio, M. Galetto)
 - 7.4. *Ultrasonic metrology for in-operando estimation of contact area in sliding interfaces* (C. Courbon, J. Rech, E. Chaize, E. Vieville, F. Valiorgue)
 - 7.5. *Development of Facile Fabrication Process for Superhydrophobic Aluminum Surfaces via Grinding and Environmentally Benign Post-Treatments* (D.-M. Chun, N. Quang Chien Do)
 - 7.6. *Influence of temperature on the surface topography achievable in precision turning of optical polymers* (D. Meyer, W. Wang, O. Riemer, B. Karpuschewski)
8. Any other business
 - 8.1. Approval of CIRP conferences and CIRP-sponsored conferences (H. Haitjema/G. Tosello)
 - 8.2. Any other business from the STC (H. Haitjema/G. Tosello)
9. Closing