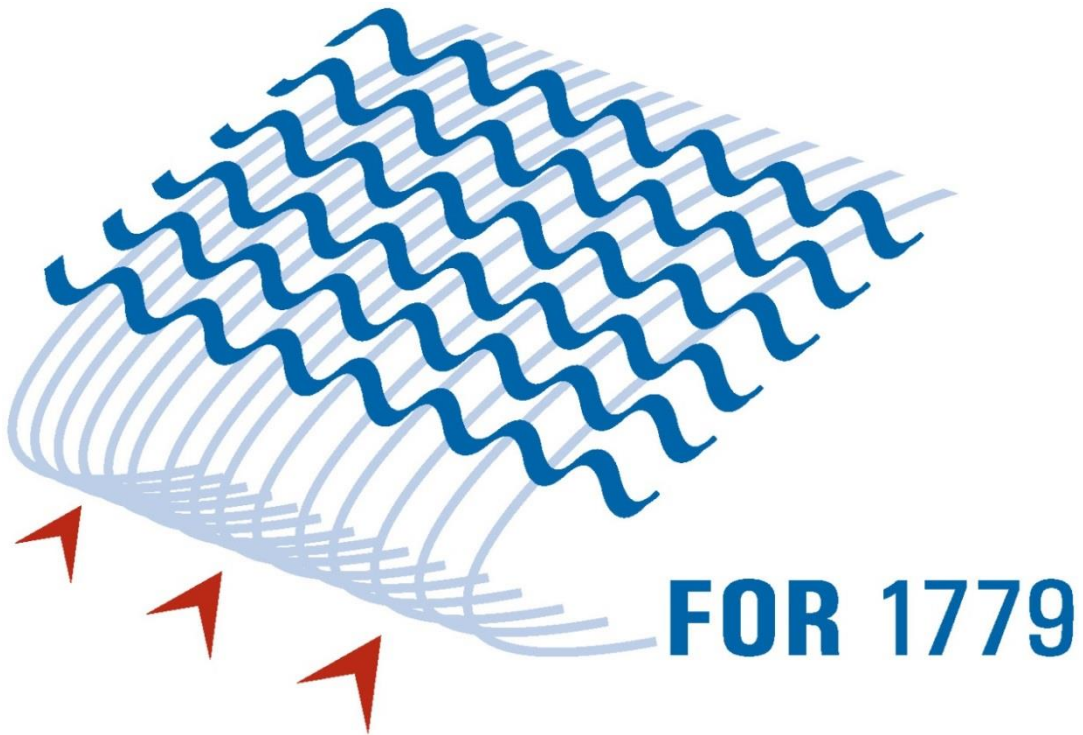


FOR 1779 Symposium

Active Drag Reduction via Wavy Surface Oscillations

Aachen, Germany, 20-21 November 2014

An interdisciplinary symposium organized by the DFG funded research group FOR 1779, RWTH Aachen University, Forschungszentrum Jülich and Technische Universität Kaiserslautern



The symposium will be held at:

NOVOTEL Aachen

Peterstrasse 66
52062 Aachen
Germany

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Thursday 20 November 2014	
09:00 - 09:30	Welcome (W. Schröder) <i>FOR 1779: Active drag reduction via wavy surface oscillations</i>
09:30 - 10:15	S. Tamano (Nagoya Institute of Technology Repository) <i>Turbulent drag reduction due to spanwise traveling waves with wall deformation</i>
10:15 - 10:45	D. Roggenkamp, W. Li, W. Jessen, M.Klaas, W. Schröder (RWTH Aachen) <i>Experimental investigation of friction drag over moving surfaces</i>
10:45 - 11:15	Coffee Break
11:15 - 12:00	J. Borggaard (Virginia Polytechnic Institute and State University) <i>Cylinder wake stabilization using linear feedback control and interpolatory model reduction</i>
12:00 - 12:30	L.Pyta, D. Abel (RWTH Aachen) <i>Reduction of friction drag in subsonic flow via feedback control</i>
12:30 - 13:00	Schiek (FZ Jülich) <i>New actuating systems and real-time network simulation for distributed surface actuation</i>
13:00 - 14:00	Lunch
14:00 - 14:45	R. Alderliesten (TU Delft) <i>How GLARE eventually may fail - Initiation and propagation of fatigue damage in fibre metal laminates</i>
14:45 - 15:30	M. Zimmermann (TU Dresden) <i>Charakterization of damage relevant microstructural features in high cycle and very high cycle fatigue</i>
15:30 - 16:00	Coffee Break
16:00 - 16:30	S. Stille, T. Beck, L. Singheiser (FZ Jülich) <i>Very high cycle fatigue behavior of riblet structured Al 2024 thin sheets</i>
16:30 - 17:00	J. Pöplau, M. Bambach, G. Hirt (RWTH Aachen) <i>Riblet rolling of metallic sheets - influence of process parameters on the riblet geometry</i>
17:00 - 17:45	L. Demkowicz (University of Texas at Austin) <i>Discontinuous Petrov Galerkin (DPG) method with optimal test functions with applications to compressible flows, an overview</i>

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Friday 21 November 2014	
09:00 - 09:45	P. Ricco (University of Sheffield) <i>Reduction of turbulent friction drag by rotating discs</i>
09:45 - 10:30	Y. Zhou (Harbin Institute of Technology Shenzhen Graduate School) Surface-based active skin friction drag reduction
10:30 - 11:00	P. Meysonnat, M. Meinke, W. Schröder (RWTH Aachen) <i>Numerical investigation of friction drag via transversal wavy surfaces motions</i>
11:00 - 11:30	Coffee Break
11:30 - 12:15	B. Engquist (University of Texas at Austin) <i>The heterogeneous multiscale method for fluid dynamics</i>
12:15 - 12:45	G. Deolmi, S. Müller, W. Dahmen (RWTH Aachen) <i>Effective boundary conditions for Compressible Flows over Rough Boundaries</i>
12:45 - 13:45	Lunch

Registration:

Dorothee Roggenkamp: d.roggenkamp@aia.rwth-aachen.de

Online:

www.aia.rwth-aachen.de/adr/symposium