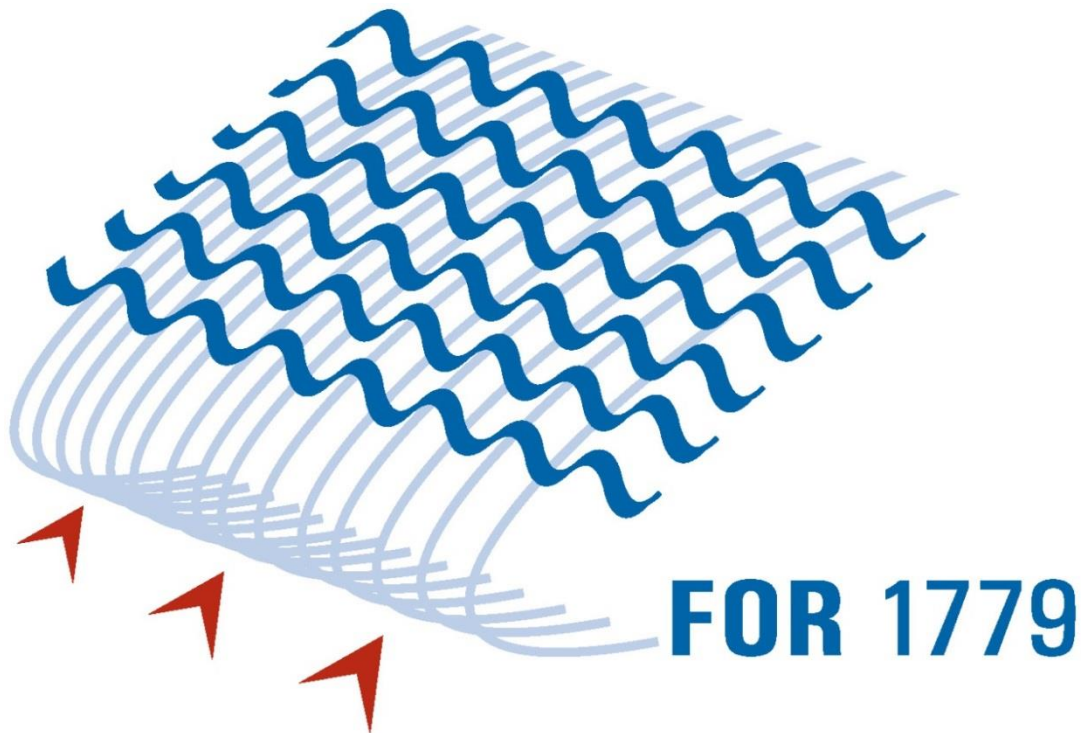


FOR 1779 Symposium

## Active Drag Reduction

Aachen, Germany, 9-10 November 2015

An interdisciplinary symposium organized by  
the DFG funded research unit FOR 1779  
RWTH Aachen University, Forschungszentrum Jülich



The symposium will be held at:

### **NOVOTEL Aachen**

Peterstrasse 66  
52062 Aachen  
Germany

### **Organizing Committee:**

Wolfgang Schröder  
Dirk Abel  
Wolfgang Dahmen  
Michael Klaas  
Siegfried Müller  
Matthias Meinke  
Michael Schiek  
Stefan van Waasen

# FOR 1779 Symposium

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<b>Monday, 9 November 2015</b>	
08:30 - 08:45	Welcome (W. Schröder) <i>FOR 1779: Active drag reduction via wavy surface oscillations</i>
08:45 - 09:30	S. L. Ceccio (University of Michigan) <i>Passive and Active Skin Friction Drag Reduction in Turbulent Boundary Layers</i>
09:30 - 10:00	D. Roggenkamp, W. Li, W. Jessen, M. Klaas, W. Schröder (RWTH Aachen) <i>Experimental investigation of friction drag over moving surfaces</i>
10:00- 10:45	M. Quadrio (Polytechnic University of Milan) <i>Turbulent drag reduction by spanwise forcing</i>
10:45 - 11:15	<b>Coffee Break</b>
11:15 - 12:00	K. Fukagata (Keio University) <i>Turbulent friction drag reduction by streamwise and spanwise traveling waves</i>
12:00 - 12:30	P. Meysonnat, M. Meinke, W. Schröder (RWTH Aachen) <i>Numerical investigation of friction drag via transversal wavy surfaces motions</i>
12:30 - 13:00	D. Gatti (Karlsruhe Institute of Technology) <i>Challenges in turbulent drag reduction via active means</i>
13:00 - 14:00	<b>Lunch</b>
14:00- 14:45	S. Bagheri (Royal Institute of Technology) <i>Flow control research at KTH</i>
14:45 - 15:15	L.Pyta, D. Abel (RWTH Aachen) <i>Reduction of friction drag in subsonic flow via feedback control</i>
15:15 - 16:00	M. Jovanovic (University of Minnesota) <i>Dynamics and control of wall-bounded shear flows</i>
16:00 - 16:30	<b>Coffee Break</b>
16:30 - 17:15	E. B. Castelan (Federal University of Santa Catarina) <i>On control and network systems</i>
17:15 - 17:45	M. Schiek (FZ Jülich) <i>New actuating systems and real-time network simulation for distributed surface actuation</i>
17:45 - 18:15	C. Kiefer (Saarland University) <i>Novel approach for flow manipulation by acoustic actuators</i>
19:00 – 21:00	<b>Dinner</b>

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<b>Tuesday, 10 November 2015</b>	
08:15 - 09:00	P. Ricco (University of Sheffield) <i>Title: To be determined</i>
09:00 - 09:30	G. Deolmi, S. Müller, W. Dahmen (RWTH Aachen) <i>Effective boundary conditions for compressible flows over rough boundaries</i>
09:30 - 10:15	A. Caiazzo (WIAS Berlin) <i>Multiscale modeling of elastic materials in harmonic regime and application to microscale structure estimation</i>
10:15 - 10:45	<b>Coffee Break</b>
10:45 – 11:30	B. Noack (Institut PPRIME, CNRS) <i>Closed-loop turbulence control using machine learning</i>
11:30 - 12:00	T. Beck, S. Stille (WKK TU Kaiserslautern) <i>Very high cycle fatigue (VHCF) behavior of riblet structured aluminum sheet materials in axial and bending loading</i>
12:00 - 12:30	M. Rütten (German Aerospace Center) <i>Experimental investigation of the influence of rotating discs on very-large structures in a turbulent boundary layer</i>
12:30 – 13:00	A. Banari, C. Janßen, T. Rung (Hamburg University of Technology ) <i>GPGPU simulation of natural transition using Lattice Boltzmann Methods</i>
13:00 - 14:00	<b>Lunch</b>

### Registration:

Wenfeng Li : [w.li@aia.rwth-aachen.de](mailto:w.li@aia.rwth-aachen.de)

### Online:

[www.aia.rwth-aachen.de/adr/symposium](http://www.aia.rwth-aachen.de/adr/symposium)