

PROGRAMME

International Student Conference on Microtechnology
Research highlights – networking – career building

8th-14th October 2012, IMTEK-Department of Microsystems Engineering at the
University of Freiburg i. Br., Germany

Monday, 8th October 2012

9:00	Address of welcome and registration
	Moderation of the morning programme: Ingolf Baur, Dipl. Phys. and Science journalist, 3sat - SWR - Deutsche Welle
09:30	Keynote lecture to the leading issue "Mobility" Sensors for individual mobility Dr. Markus Ulm, Robert Bosch GmbH
10:30-11:00	Coffee break
11:00-12:30	Forum to the topic "Mobility"
	Silicon carbide based microsensors for harsh environment automotive applications Dr. Tino Fuchs, Robert Bosch GmbH
	Anovel approach for MEMS-based un-cooled RTFIR imagers Ingo Herrmann, Robert Bosch GmbH
12:30-13:30	Lunch break
13:30-16:45	Job applicant seminar for entrants Rainer Schmidt, D. und R. Schmidt GbR
16:45-17:00	Coffee break
17:00-18:00	Workshop - creativity team contest Department of Microsystems Engineering (IMTEK), University of Freiburg

Tuesday, 9th October 2012

	Moderation of the morning programme: Ingolf Baur, Dipl. Phys. and Science journalist, 3sat - SWR - Deutsche Welle
9:00	Keynote lecture to the leading issue "Health" The future of diabetes management: Innovative solutions Dr. Alexander von Massow, Roche Diagnostics GmbH
10:30-11:00	Coffee break
10:30-12:00	Forum to the topic "Health"
	Application-oriented research: Intelligent implants for diagnostic and therapy Dr. Alfred Stett, Natural and Medical Sciences Institute at the University of Tübingen Microtechnology for diagnostics and medicine Prof. Dr. Roland Zengerle, Department of Microsystems Engineering (IMTEK), University of Freiburg
12:00-13:00	Lunch break
13:00-14:30	Science presentation competition
14:30-15:00	Coffee break
15:00-17:00	Workshop – creativity team contest Department of Microsystems Engineering (IMTEK), University of Freiburg

Wednesday, 10th October 2012

	Moderation of the morning programme: Prof. Dr. Ulrich Mescheder, University of Applied Sciences Furtwangen
9:00	Keynote Lecture to the leading issue "Smart Systems Integration" Smart Systems Integration Prof. Dr. Leonard Reindl, Department of Microsystems Engineering (IMTEK), University of Freiburg
10:00-10:30	Coffee break
10:30-12:00	Forum to the topic "Smart Systems Integration"
	Smart orthodontics for a healthier bite Prof. Dr. Oliver Paul, Department of Microsystems Engineering (IMTEK), University of Freiburg SensRFID: Smart RFID-systems with integrated low-power sensors and energy harvester

	<p>Carolin Peter, IPM Fraunhofer Institut für physikalische Messtechnik</p> <p>Smart Textiles-Developments at ITV Hansjürgen Horter, Institut für Textil- und Verfahrenstechnik Denkendorf (ITV)</p>
12:00-13:00	Lunch break
13:00-14:30	Science presentation competition
14:30-15:00	Coffee break
15:00-17:00	<p>Workshop – creativity team contest Department of Microsystems Engineering (IMTEK), University of Freiburg</p>

Thursday, 11th October 2012

	Moderation of the morning programme: Prof. Dr. Oliver Paul, Department of Microsystems Engineering (IMTEK), University of Freiburg
9:00-10:00	<p>Keynote Lecture to the leading issue "energy in the 21st century" The Role of renewable energy in the 21st century Prof. Dr. Eicke Weber, Fraunhofer-Institut for Solar Energy Systems ISE</p>
10:00-10:30	Coffee break
10:30-12:00	Forum to the topic "energy in the 21st century"
	<p>Micro Energy Harvesting Prof. Dr. Peter Woias, Department of Microsystems Engineering (IMTEK), University of Freiburg</p> <p>Biofuel Cells - direct electricity from renewable sources Joana Danzer and Sabine Sane, Department of Microsystems Engineering (IMTEK), University of Freiburg</p> <p>Electret based energy harvesting for microsystems Prof. Dr. Ulrich Mescheder, Institute for Applied Research, University of Applied Sciences Furtwangen</p>
12:00-13:00	Lunch break
12:00-16:30	<p>Job fair A job fair with leading companies in the microtechnology area from the cluster region offers direct contacts and networking opportunities for a professional career.</p>
16:00-18:00	<p>Close and summary of the creativity team contest Department of Microsystems Engineering (IMTEK), University of Freiburg</p>
18:00-21:00	Evening Event with music and regional gastronomic specialties

Friday, 12th October 2012

	Moderation of the morning programme: Prof. Dr. Ulrich Mescheder, Institute for Applied Research, University of Applied Sciences Furtwangen
9:00-10:00	Keynote Lecture Metamaterials for transformation-physics Prof. Dr. Martin Wegener, Karlsruhe Institute of Technology (KIT)
10:00-10:30	Coffee break
10:30-11:00	Award of the creativity team contest and the science presentation competition Prof. Dr. Ulrich Mescheder, Institute for Applied Research, University of Applied Sciences Furtwangen Prof. Dr. Oliver Paul, Department of Microsystems Engineering (IMTEK), University of Freiburg
11:00-12:00	Ending of the International Student Conference on Microtechnology Conclusion and future prospects Prof. Dr. Ulrich Mescheder, Institute for Applied Research, University of Applied Sciences Furtwangen Prof. Dr. Oliver Paul, Department of Microsystems Engineering (IMTEK), University of Freiburg
12:00-13:00	Lunch break / End of the conference
14:00	<i>Start of the free post conference programme, 12th-14th October 2012</i>
	The program will be organized by bw-i Baden-Württemberg International. The two-and-a-half day post conference programme will give you the opportunity to learn more about the cluster microTEC Südwest (Southwest) and its members, as well as the region. The programme comprises site visits to renowned microtechnology companies and cutting-edge research institutions from the same field. The post conference programme will end at ca. 14:00 o'clock on Sunday 14th October in Freiburg.