

## Program FlexTEG 2016 (Sept. 26<sup>th</sup>-27<sup>th</sup>)

Time	Day 1	
08:00	Reception & Welcome & Coffee	
09:00	Introduction	
09:20	Session 1 EU Projects	Dr. Roch (FhG IWS) Results of the NanoCaTe-Project
09:45		Mr. Fonseca (IMB-CNM) SiNERGY - Silicon friendly materials and devices for microenergy applications
10:10		Dr. Reith (Leibniz IFW) Thermally Integrated Smart Photonics Systems (TIPS)
10:35	Coffee break	
11:05	Session 2 Materials	Dr. Paul (Uni Linköping) Nanoarchitected Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> thin films for flexible thermoelectric applications
11:30		Dr. Tkachov (TU Dresden) Synthesis of processable n-type Polymers
11:55		Dr. Pötschke (Leibniz IPF) Melt mixed polymer composites with carbon nanotubes as thermoelectric materials
12:20	Lunch Break	
13:50		Mr Liu (TU Dresden) Doped single-walled carbon nanotubes for flexible thermoelectric applications
14:15	Session 3 Devices	Prof. Feldhoff (Leibniz Uni Hannover) Application of thermoelectric materials in flexible thermoelectric generator
14:40		Mr Hecht (Otego) Roll-to-roll printed organic TEGs: Why ZT is not the most important factor
15:05	Coffee + Poster Session (1h)	
16:05	Session 3 Devices	Ms Leisten (TU Dresden) Dispenser printed flexible and full organic thermoelectric generators
16:30		Ms Aboulfotoh (Leibniz Uni Hannover) Investigating Dependence of Output Power on Design Parameters of a cantilevered Piezoelectric Energy Harvester as a step for developing an Optimal Design procedure of the Energy Harvester
17:00	Lab Tour	
18:30	Social Event: BBQ@IWS	

Time	Day 2	
09:00	Reception & Welcome	
09:20	Session 4 System- Issues	Prof. Takeda (TU Nagaoka) Simulation of Power Generation Characteristics of In-plane type Thermoelectric Module
09:45		Dr. Hinsche (TU Denmark) Simulating thermoelectric material properties without prior knowledge
10:10		Dr. Spies (FhG IIS) Energy Harvesting Systems with Integrated Energy Management Circuits
10:35		Ms Man (Uni Glasgow) Considerations on the applications of thermoelectric devices
11:00	Coffee break	
11:30	Session 4 System- Issues	Mr Linseis (TU Hamburg) Development of a ZT-measurement system for thin films plus additional Hall constant determination in a temperature range from LN <sub>2</sub> up to 300°C
11:55		Mr Francioso (CNR IMM) Heatsink-free wearable thermoelectric generator with a fully electrical high efficiency DC-DC converter
12:20	Session 5 Lessons we've learned <sup>1</sup>	Prof. Nielsch (Leibniz IFW) Lessons learned from Priority Program DFG-SPP1386 "Nanostructured Thermoelectrics"
12:45		Dr. Barbosa (FhG IWS) The evolution of thermal spray as additive manufacturing technology of TEGs: how far can we go?
13:10	Closing	
13:15	Lunch	
14:15	Open Session/Networking <sup>2</sup>	

<sup>1</sup> this is an open session that focusses on, why it is so difficult to bring research results into the market (researchers view) or why it is so difficult to apply energy harvesting solutions (companies view) and which ways maybe have been misleading

<sup>2</sup> located in a Biergarten