



MIGRATE Workshop - June 30 – July 1st, 2016 University of Strasbourg

Workshop day 1: June 30, 2016	
09:00 - 09:15	Registration
09:15 - 09:30	Welcome Address
09:30 - 10:30	Session 1 – Keynote Lecture
	Prof. Joost Lotters, University of Twente (The Netherlands)
	Integrated systems for real-time flow and composition measurement
10:30 - 11:00	Coffee
11:00 - 12:20	Session 1A – Sensors and Measurement Techniques
11:00	WS06 – Measurements of the temperature gradient driven flow for various gases.
11.00	I. Graur
	WS09 – Design and experimental characterization of a thermostress-based MEMS gas
11:20	sensor.
	A. Strongrich
	WS08 - A new method for the determination of momentum accommodation
11:40	coefficients by using axial bulk temperature gradients.
	G. L. Morini
12:00	WS14 – Impact of rarefied gas flows in low pressure lithography.
	E. Arlemark
12:20 - 14:00	Lunch
14:00 - 14:50	Session 2 – Keynote Lecture
	Dr. Janez Setina, Institute of Metals and Technology, Ljubljana (Slovenia)
	Gas analysis in high and ultrahigh vacuum using quadrupole mass spectrometers
14:50 - 15:40	POSTER Session (WP1 & WP2)
14:50	WS12 – Overview of alternative designs for thermally driven micropumps.
11.50	G. Lopez Quesada
	WS15 – Design, development and validation of a micro-pirani pressure sensor for
15:02	micro and macro scale applications.
	S. Toto
15:15	WS22 – Gas solid surface micro separators - VOCs trapping.
	A. Sharifi
15:27	WS25 – Thermal transpiration in a complex geometry.
	I. Graur
15:40 - 16:20	Coffee & Discussions around posters
16:20 - 17:20	Session 2A – Analysis Micro Systems
16:20	WS20 - Real-time monitoring of gaseous formaldehyde using a microfluidic device.
	C. Trocquet
16:40	WS16 - A micro Photo Ionization Detector for VOC gases
	D. Newport
17:00	WS21 - Real-time monitoring of airborne VOCs using microdevices
	I. Lara Ibeas





Workshop day 2: July 1st, 2016	
09:00 - 10:00	Session 3A – Modeling of rarefied gas flows
09:00	WS02 – On the unsteady vortex shedding behind a cylinder. <i>E. Roohi</i>
09:20	WS05 – An insight view of pressure, temperature and boundary driven flows based on DSMC decomposition. <i>G. Tatsios</i>
09:40	WS04 – Rarefied Poiseuille gas flow due to harmonically oscillating pressure gradient. <i>A. Tsimpoukis</i>
10:00 - 10:30	Coffee
10:30 - 11:50	Session 1B – Sensors and Measurement Techniques
10:30	WS18 – Gas dynamics in vacuum total pressure sensors. <i>M. Wüest</i>
10:50	WS11 - Acetone luminescence at low pressure for Molecular Tagging Velocimetry in confined rarefied gas flows. D. Fratantonio
11:10	WS17 - Interferometric and Colorimetric Based Sensing for miniaturised VOC detection D. Newport
11:30	WS19 – Microscale gas flows in high heat flux electronics cooling applications. J. Stafford
12:00 - 14:00	Lunch
14:00 - 14:50	Session 3 – Keynote Lecture
	Dr. Marc Linder, Institute of Engineering Thermodynamics - German Aerospace Center High temperature thermal energy storages and heat recovery
14:50 – 15h40	POSTER Session (WP1 & WP3)
14:50	WS10 – Thermal gas mixing in microscale. S. Meskos
15:02	WS13 - Micro Molecular Tagging Thermometry V. Yeachana
15:15	WS23 - Gas-wall interactions under rarefied conditions A. Frijns
15:26	WS24 - Design & optimization of a compact heat exchanger for a micro gas turbine micro-chp application J. Joseph
15:40 - 16:20	Coffee & Discussions around posters
16:20 - 17:20	Session 3B – Modeling of rarefied gas flows
16:20	WS01 – Evaluation of the SBT collision model for near continuum nano Fourier flows. <i>E. Roohi</i>
16:40	WS07 – Modeling polyatomic gas flows by classical trajectory Direct Simulation Monte Carlo. <i>A. Frezzotti</i>
17:00	WS03 - On DSMC calculations of high speed gas flows on adaptive meshes. <i>K. Shterev</i>
17:20 - 17:30	Closing Address