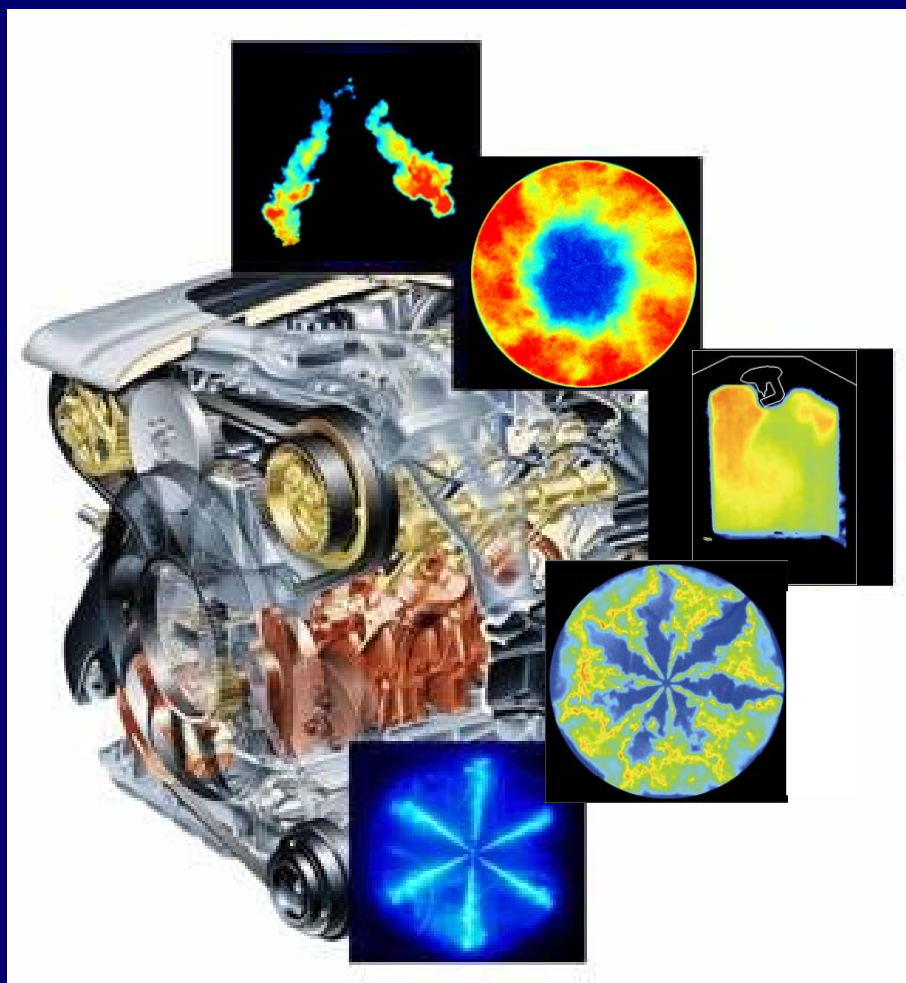


18th International SAOT Workshop on Optical Metrology

“Optical Engine Diagnostics”

March 18-19, 2013
Erlangen, Germany



Workshop Chair:

Prof. Dr.-Ing. Alfred Leipertz (Chair)
Dr.-Ing. Lars Zigan, M.Sc. (Co-Chair)

Local Organizing Committee:

Dipl.-Ing. Johannes Kuhl (Chair),
Dipl.-Ing. Johannes Trost,
Ms. Christina Ort, Ms. Susanna Kress

----- Program -----

Monday, March 18	
08:30	Registration
09:00	<i>Leipertz, Alfred</i> – University of Erlangen-Nuremberg, Germany Welcome, Opening Remarks and Brief Introduction into SAOT
09:45	<i>Su, Wanhua</i> – Tianjin University, China “Diesel spray characteristics in high pressure and temperature atmosphere by the planar laser-induced exciplex fluorescence (PLIEF) technique”
10:35	Coffee break
11:00	<i>Arai, Masataka</i> – Gunma University, Japan “PIV analysis for Diesel spray angle and velocity”
11:50	<i>Linne, Mark</i> – Chalmers University of Technology, Göteborg, Sweden ” X-ray techniques for challenging combustion environments”
12:40	Lunch break
13:30	<i>Paciaroni, Megan</i> – Metropolitan State University, Denver, USA “Applications of Ballistic Imaging in Optically Dense Spray Regions”
14:20	<i>Beyrau, Frank</i> – Imperial College, London, UK “Use of thermographic phosphor particles for simultaneous gas-phase thermometry and velocimetry”
15:10	<i>Zigan, Lars</i> – University of Erlangen-Nuremberg, Germany “High surface temperature measurements using thermographic phosphors”
15:30	<i>Zhang, Yuyin</i> – Shanghai Jiao Tong University, China “Measurement on droplet temperature and vapor concentration using quantitative laser-induced exciplex fluorescence (LIEF)”
16:30	Transfer
17:00	Lab tour “Institute of Engineering Thermodynamics (LTT)”
18:00	Transfer to the hotel

Evening Program (*)	
18:45	Guided City Tour through Erlangen
20:00	Dinner in Erlangen (Franconian Restaurant Alter Simpl)



(*) Applications are welcome (only restricted attendance possible)

Tuesday, March 19	
09:00	Transfer from Hotel (**)
	Lab tour LTT Test Center Nuremberg
10:15	Transfer to IZMP (**)
10:40	Coffee break
11:00	<i>Lai, Ming-Chia</i> – Wayne State University, Detroit, USA “Direct-injection spark ignition engine combustion characterized by direct visualization”
11:50	<i>Corcione, Felice, G. Valentino et al.</i> – CNR-Instituto Motori, Naples, Italy “Spectroscopic investigation of spray combustion mechanism in DI spark ignition engines”
12:40	Lunch break
13:30	<i>Ma, Lin</i> – Aerospace and Ocean Engineering, VirginiaTech, Blacksburg, USA “2D and 3D engine diagnostics based on absorption and emission spectroscopy”
14:20	<i>Böhm, Benjamin & Dreizler, Andreas</i> - TU Darmstadt, Germany “Combined high-speed flow and scalar imaging in a direct-injection spark-ignition engine”
15:10	<i>Zigan, Lars & Trost, Johannes</i> – University of Erlangen-Nuremberg, Germany “Tracer laser- induced fluorescence measurements inside IC engines”
16:00	End of Workshop
Afternoon Program (**)	
16:45	Visit Nuremberg Castle and Old Town



(**) For invited speakers only

“Optical Engine Diagnostics”

Conference Venue:
Innovationszentrum für Medizintechnik
und Pharma (IZMP)
Henkestraße 91, 91052 Erlangen

