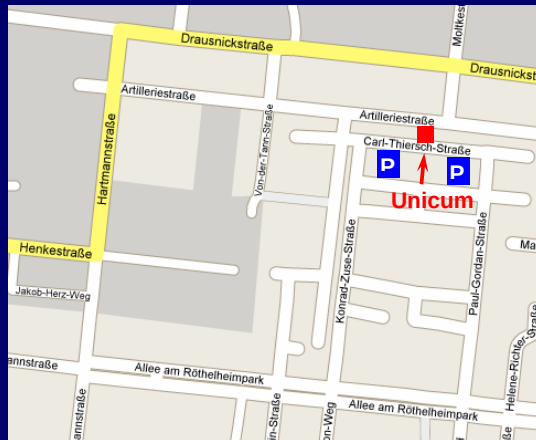


"Optical Diagnostics for Flow and Combustion Research"

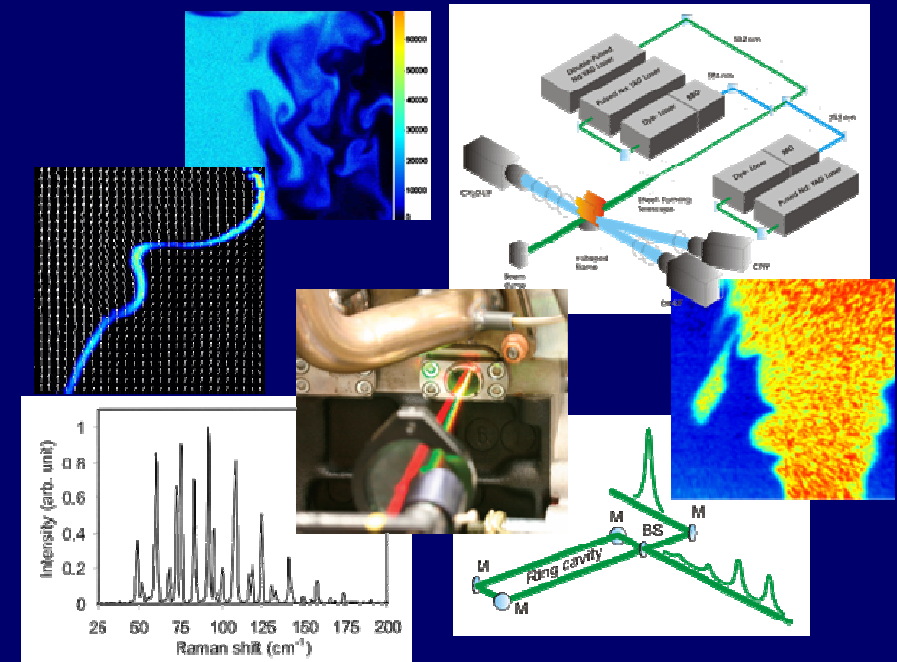
Conference Venue:
Unicum Bar & Bistro
Carl-Thiersch-Straße 9, 91054 Erlangen



1st International SAOT Workshop on Optical Metrology

"Optical Diagnostics for Flow and Combustion Research"

August 19-21, 2007
Erlangen, Germany



Workshop Chair:
Prof. Dr.-Ing Alfred Leipertz

Organizing Committee:
Dr.-Ing. Frank Beyrau (Chair)
Dipl.-Ing. Andreas Bräuer, Ms. Iris Knopf, Dr.-Ing. Ingo Schmitz

----- Preliminary Program -----

	Sunday, August 19
19:00	Arrival and Welcome Reception for Speakers & Accompanying Persons

	Monday, August 20
08:30	Registration
09:00	Opening Remarks <i>A. Leipertz, Chair and H. Meerkamm, Vice-Rector of the University</i>
09:15	<i>A. Leipertz, University Erlangen - Nuremberg</i> The Erlangen Graduate School in Advanced Optical Technologies (SAOT)
09:45	<i>J.W. Fleming, Naval Research Laboratory, Washington</i> "Tunable Diode Laser Absorption Spectroscopy: Application to Harsh Environments"
10:30	Coffee break
10:50	<i>R.B. Miles, Princeton University</i> "Applications of Radar REMPI and Filtered Rayleigh Scattering for Combustion Diagnostics"
11:35	<i>R.W. Dibble, University of California Berkeley</i> "Application of Laser Raman Scattering, and the He-Ne 3.38 μ m Laser, in Combustion"
12:20	Lunch
13:30	<i>V. Sick, University of Michigan</i> "High-speed laser-based imaging techniques for concentration and velocity measurements in reacting flows"
14:15	<i>C. Kaminski, University Cambridge</i> „Laser diagnostics of thermoacoustic instabilities in lean premixed flames“
15:00	Coffee break
15:20	Bus transfer
15:30	Lab tour at the Department of Engineering Thermodynamics
17:00	Bus transfer to the Unicum

For Speakers, Accompanying Persons, SAOT Principal Investigators & Mentors

	Evening Program
17:00	Bus transfer to Bamberg
17:30	"The Night Watchman's Call" Guided City Tour through the World Cultural Heritage Site Bamberg
19:00	Dinner in Bamberg
22:00	Bus transfer to Erlangen

	Tuesday, August 21
09:00	<i>P. Ewart, Oxford University</i> Four-Wave Mixing for Combustion and Engine Diagnostics
09:45	<i>D.N. Kozlov, Russian Academy of Sciences, Moscow</i> Laser-induced Gratings and Gas Phase Diagnostics
10:30	Coffee break
10:50	<i>P.M. Danehy, NASA Langley Research Center</i> "Simultaneous Temperature, Species Concentration and Velocity Measurements in Supersonic Flows"
11:35	<i>M.B. Long, Yale University</i> „A paradigm shift in the interaction of experiments and computations“
12:20	Lunch
13:40	<i>L.J. Wang, Max Planck Research Group, Erlangen</i> "Ultrahigh Precision Measurement Science and Applications"
14:25	Bus transfer
14:35	Lab tour Max Planck Research Group "Institute of Optics, Information & Photonics"
15:50	Bus transfer to the Unicum
16:00	Departure



Bamberg



The Figures on the front page are taken from:

F. Beyrau, A. Bräuer, T. Seeger and A. Leipertz, Opt. Lett. **29**: 247 (2004)
F. Beyrau, M. C. Weikl, T. Seeger and A. Leipertz, Opt. Lett. **29**: 2381 (2004)
M.C. Weikl, F. Beyrau, A. Leipertz, Appl. Opt. **45**: 3646 (2006)
S. Pfadler, F. Beyrau, M. Löffler and A. Leipertz, Opt. Express **14**: 10171 (2006)
M.C. Weikl, F. Beyrau, A. Leipertz, A. Loch, C. Jeliitto and J. Willand, SAE Paper 2007-01-0182 (2007)