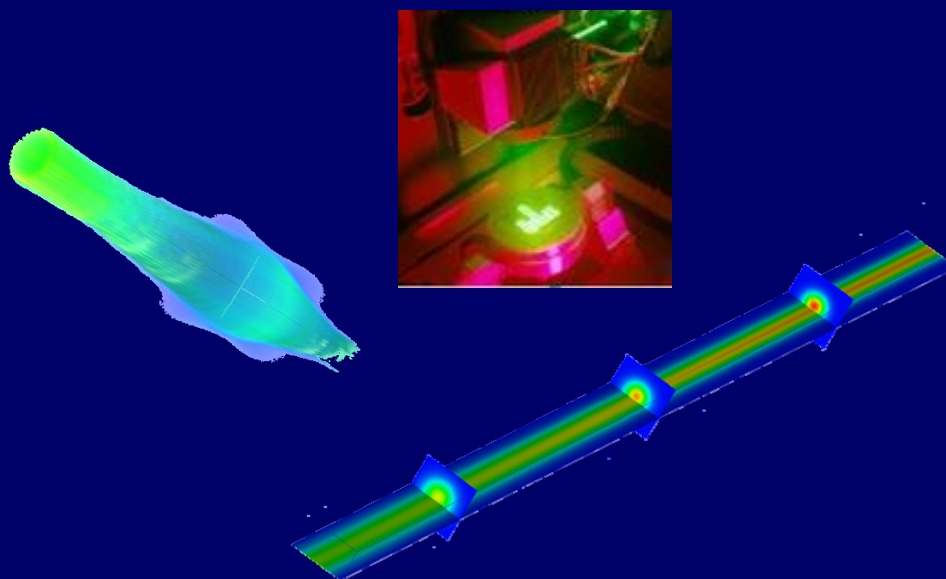




## 8th International SAOT Workshop

### "Development and Simulation of Advanced Laser Systems"

April 19-20, 2010  
Erlangen, Germany



### Workshop Chair:

Professor Dr. Christoph Pflaum (Chair)  
Professor Dr.-Ing. Michael Schmidt (Co-Chair)

### Local Organizing Committee:

Ms. Christina Ort, Dipl.-Math. Matthias Wohlmuth

----- **Program** -----



## “Development and Simulation of Advanced Laser Systems”

**Workshop Venue:**  
Unicum  
Carl-Thiersch-Str. 9  
91052 Erlangen, Germany  
First Floor



Time	Monday, April 19, 2010
08:00	<i>Registration</i>
08:20	<i>Christoph Pflaum</i> - University Erlangen – Nuremberg, Germany "Welcome and Opening Remarks"
08:30	<i>Michael Schmidt</i> - University Erlangen – Nuremberg, Germany "The Erlangen Graduate School in Advanced Optical Technologies (SAOT)"
08:40	<i>Ursula Keller</i> – Institute for Quantum Electronics, ETH Zurich, Switzerland "A New Class of Ultrafast Semiconductor Lasers for Optical Clocking Applications"
09:40	Coffee break
10:00	<i>Steffen Erhard</i> – TRUMPF Laser GmbH + Co. KG Schramberg, Germany "Radially Polarized CO2-Lasers"
11:00	<i>Adolf Giesen</i> – Deutsches Zentrum für Luft- und Raumfahrt Stuttgart, Germany "High Power Thin Disk Lasers"
12:00	Lunch break
13:00	<i>Bernd Witzigmann</i> – University Kassel, Germany "Multi-Physics Modeling of Active Photonic Devices "
14:00	<i>Joachim Piprek</i> – NUSOD Institute LLC Newark, USA "Design and Simulation of GaN-based Laser Diodes "
15:00	TODAYS WS END
15:15	<i>Lab tour at BLZ (*)</i>
16:20	Transfer to the hotels (speakers only)

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

	Evening Program (*)
17:30	Bus transfer to Bamberg
18:15	"The Night Watchman's Call" Guided City Tour through the World Cultural Heritage Site Bamberg
19:30	Dinner in Bamberg
22:30	Bus transfer to Erlangen

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

Time	Tuesday, April 20, 2010
08:30	<i>Martin Richardson</i> – Townes Laser Insitute & CREOL, University of Central Florida, Orlando, USA “The Challenges Ahead for High Power Fiber Lasers”
09:30	Coffee break
09:50	<i>Jens Limpert</i> – University Jena, Germany “Short Pulse Fiber Lasers – Challenges, State-of-the-art, Perspectives”
10:50	<i>Ivo Zawischa</i> – TRUMPF Laser GmbH + Co. KG Schramberg, Germany “Development of Frequency Converted Solid-State Lasers for Materials Processing Applications”
11:50	Lunch break
12:50	<i>Mikhail Zervas</i> – SPI Lasers UK Limited Southampton, United Kingdom “Fiber Lasers: The Rise to Power”
13:50	<i>Rüdiger Paschotta</i> – RP Photonics Consulting GmbH Zurich, Switzerland “Modeling of Fiber Amplifiers and Fiber Lasers”
14:50	Coffee break
15:10	<i>Christoph Pflaum</i> – University Erlangen - Nuremberg “Advanced Simulation Techniques for Solid-State and Semi-Conductor Lasers”
16:00	Bus Transfer to Max-Planck (*)
16:30	Lab Tour Max-Planck (*)
18:00	End of Workshop

(\*) Applications are welcome (only restricted attendance possible)  
Preference will be given to Speakers and non-SAOT Members



Bamberg

