



LASIG TWIN: LASER IGNITION - A TWINNING COLLABORATION FOR FRONTIER RESEARCH IN ECO-FRIENDLY FUEL-SAVING COMBUSTION

(<http://www.lasig-twin.eu/>)

Workshop 2: Laser Ignition – Measurement and Characterization

Date: 10-11 November 2016
Location: University of Bayreuth, Faculty of Engineering Science
95447 Bayreuth, Germany

PROGRAM

Day 1: 10 November 2016

- 09:00 – 09:30 Registration and Coffee
- 09:30 – 09:45 **Welcome and Introduction**
Prof. Dr. Dieter Brüggemann University of Bayreuth, Germany
- 09:45 – 10:30 **Laser measurement techniques for investigating the combustion process**
Prof. Dr. Dieter Brüggemann University of Bayreuth, Germany
- 10:30 – 10:45 Discussion
- 10:45 – 11:00 Coffee Break
- 11:00 – 12:00 **Laser-induced plasma as a tool for combustion diagnostics**
Prof. Dr. Johannes Kiefer University of Bremen, Germany
- 12:00 – 12:15 Discussion
- 12:15 – 13:15 Lunch
- 13:15 – 14:00 **Kinetic and dynamic studies of discharge-assisted combustion by advanced spectroscopic diagnostics**
Prof. Dr. Gabi-Daniel Stancu Centrale Supélec, Paris, France
- 14:00 – 14:15 Discussion
- 14:15 – 15:00 **Diagnostic tools for characterization of the laser ignition process**
Mark Bärwinkel University of Bayreuth, Germany
- 15:00 – 15:15 Discussion
- 15:15 – 15:30 Coffee Break
- 15:30 – 16:30 **Laboratory Tour**
- End of Day 1**
- 18:00 **Social Event** (Guided Tour through the "Bayreuther Beer Cellar")
- 19:30 **Dinner** at Restaurant "Liebesbier"



Workshop 2: Laser Ignition – Measurement and Characterization

Day 2: 11 November 2016

09:00 – 10:00 **The use of imaging tools for ignition studies in internal combustion engines**
Prof. Dr. Volker Sick University of Michigan, USA

10:00 – 10:15 Discussion

10:15 – 10:30 Coffee Break

10:30 – 11:00 **Impact of turbulent in-cylinder air motion and local mixture formation on inflammation: Is multiple point ignition a solution?**
Dr. Roman Grzeszik Robert Bosch GmbH, Germany

11:00 – 11:15 Discussion

11:15 – 12:00 **General Discussion**

12:00 – 13:00 Lunch

13:00 – 13:30 **Measurement and analysis techniques for evaluation of the combustion process of an automobile engine**
Vincent Page University of Liverpool, England

13:30 – 13:45 Discussion

13:45 – 14:05 **Use of Acoustic Sensors in Alignment of a Gas Turbine Laser Ignition System**
Dr. Jonathan Griffith University of Lincoln, England

14:05 – 14:15 Discussion

14:15 – 14:30 Coffee Break

14:30 – 14:45 **Short presentation about an optically accessible series-production engine (BMW)**
Prof. Dr. Marco Taschek University of Applied Science
Amberg/Weiden, German

14:45 – 14:55 Discussion

14:55 – 15:15 **General Discussion**

15:15 – 15:30 **Wrap up, Outlook to the Future Workshop Program and Workshop 3 in Jena**
Prof. Dr. Dieter Brüggemann, Dr. Erik Beckert

End of Day 2



Accommodation (recommended hotels)



H4-Hotel Residenzschloss Bayreuth

<https://www.h-hotels.com/de/h4/hotels/h4-hotel-residenzschloss-bayreuth>



Hotel Rheingold

<http://www.hotel-rheingold-bayreuth.de/zimmer.html>



Hotel Bayerischer Hof (directly at the train station)

<http://www.bayerischer-hof.de/index.php>