

GENERAL INFORMATION

Organisation

Collaborative Research Centre (CRC) 606,
University Karlsruhe (TH), Germany

Deadlines

Registration for participation: 31 October 2006

Submission of abstracts for contributed posters: 31 October 2006

A one-page abstract of each poster should be mailed to sfb_606@vbt.uni-karlsruhe.de

Registration

The registration form can be found under www.sfb606.uni-karlsruhe.de The registration fee is 50 € and includes conference material, coffee-break refreshments and participation in the evening event.

Contact

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Germany

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Fax +49(0)721-608-65 66
E-mail sfb_606@vbt.uni-karlsruhe.de
Internet www.sfb606.uni-karlsruhe.de

VENUE AND ACCOMODATION

University Karlsruhe (TH)
Kaiserstrasse 12
76131 Karlsruhe, Germany
Engesser Hörsaal, Building 10.81

The University of Karlsruhe, Kaiserstrasse 12, can be reached by [train](#) via Karlsruhe Central Station ("Hbf"), then by [tram](#) 2, 3, S4 or S41; leave trams at "Kronenplatz/ Universität" (see <http://www.uni-karlsruhe.de/info/en/campusmap.php>).



Accommodation

Hotel reservation via internet:

<http://www1.karlsruhe.de/Tourismus>

Recommended hotels close to the conference site:

Queens Hotel, Ettlinger Str. 23

+49(0)721/3 72 7-0

Single Bedroom 104 €

Hotel Am Markt, Kaiserstr. 76

+49(0)721/91 99 8-0

Single Bedroom 72 €

Dorint Kongress-Hotel, Am Festplatz 2

+49(0)721/35 26-0

Single Bedroom 79 € - 180 €

Hotelwelt-Kübler, Bismarckstr. 35 - 43

+49(0)721/144-0

Single-Bedroom 76 €



Universität Karlsruhe (TH)

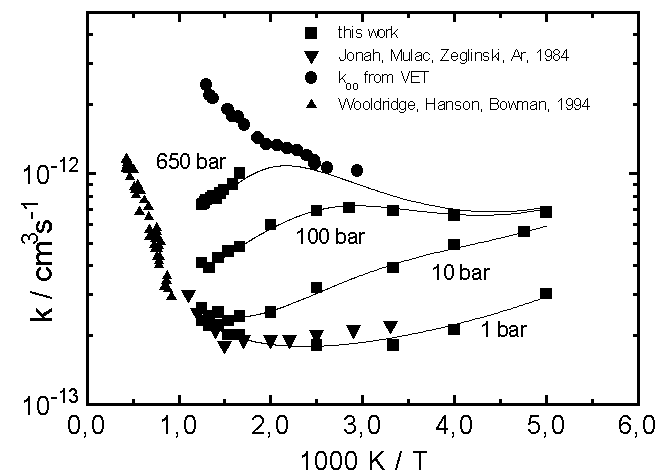
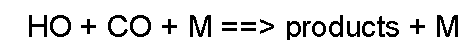
Research University · founded 1825

INTERNATIONAL WORKSHOP ON

GAS KINETICS

Collaborative
Research Centre (CRC) 606

17 November 2006



Deutsche
Forschungsgemeinschaft
DFG

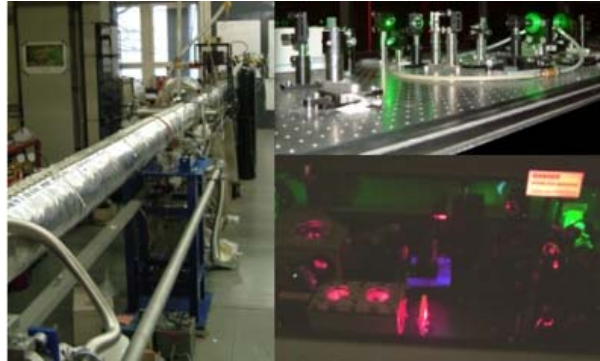
Collaborative Research Centre 606

UNSTEADY COMBUSTION: Transport Phenomena, Chemical Reactions, Technical Systems

The Collaborative Research Centre (Sonderforschungsbereich) "Unsteady Combustion: Transport Phenomena, Chemical Reactions, Technical Systems" has been established since 1.1.2002 by the Deutsche Forschungsgemeinschaft. The CRC is an installation of the University of Karlsruhe combining research groups from the faculties of Process Engineering, Mechanical Engineering, Chemistry and Biosciences, and Civil Engineering. Adjoined to the CRC are also research groups from the University of Stuttgart, the DLR Stuttgart and the Forschungszentrum Karlsruhe.

Research topics of the CRC are phenomena linked to unsteady and transient combustion such as

- chemical reactions and transport in highly transient temperature and pressure fields
- coupling of turbulence and chemical reactions in ignition and transient combustion
- interactions of chemical reactions, mass and heat transfer in transient multi-phase flows
- combustion-driven instabilities
- combustion in direct injection engines and gas turbines
- modelling and numerical simulation



The one-day international workshop on Gas Kinetics provides an opportunity for open discussions about the most recent developments in gas kinetics by highlighting several aspects by invited speakers. Ample discussion of modern developments will be provided in an open poster session. Contributions to the poster session are solicited. Submissions are encouraged preferably for the following topics:

- elementary chemical reactions
- complex mechanisms
- chemical reactions at elevated pressure
- chemistry of aromatic hydrocarbons and soot formation
- chemoluminescence and other molecular emission processes at high temperatures

Friday, 17 November 2006

CONFERENCE OPENING

- | | |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 | Welcome and Introduction
<i>Prof. Dr.-Ing. H. Bockhorn</i> |
| 10:05 | Modelling the Autoignition and Combustion of Real Fuels. A "Rigorous" Lumped Approach
<i>Prof. Dr. T. Faravelli (Milan)</i> |
| 10:50 | Isomer-selective Analysis for Combustion Chemistry
<i>Prof. Dr. K. Kohse-Höinghaus (Bielefeld)</i> |
| 11:35 | Coffee Break |
| 11:50 | Laser-diagnostic Methods for Assessment of Kinetics in Reactive Flows
<i>PD Dr. R. Surtz (Karlsruhe)</i> |
| 12:35 | Sensitivity and Uncertainty Analysis of a Methane Combustion Mechanism
<i>Prof. Dr. T. Turányi (Budapest)</i> |
| 13:30 | Lunch |
| 14:30 | Contributed Poster Discussion and Coffee |
| 16:30 | Practice and Pitfalls in the Use of RRKM/ME Methods for Understanding and Extrapolating Kinetic Data
<i>Prof. Dr. D. M. Golden (Stanford)</i> |
| 17:15 | Experimental and Modelling Studies of Radical Molecule Reactions
<i>Prof. Dr. M. J. Pilling (Leeds)</i> |
| 18:00 | Reaction Kinetics at its Best: The Reaction $\text{H}_2\text{O}_2 \rightarrow 2 \text{OH}$
<i>Prof. Dr. J. Troe (Göttingen)</i> |
| 19:00 | Evening Event |