

Schedule International Spring School “**Calculation of Thermodynamic Data and Rate Coefficients for Combustion Reactions from First Principles**”, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

Venue: Karlsruhe Institute of Technology (Campus South),
Fritz-Haber-Weg 2-6, 76131 Karlsruhe, Germany

Date/Time	Lecturer	Topic
Monday, March 19		
08:30 – 09:30		Registration
09:45 – 10:45	M. Olzmann	Welcome + Introduction
11:00 – 12:30	W. Klopper	Quantum Chemistry, Foundations I
14:30 – 16:00	W. Klopper	Quantum Chemistry, Foundations II
16:30 – 18:00	R. Fournet	Quantum Chemistry, Applications I
Tuesday, March 20		
9:00 – 10:30	R. Fournet	Quantum Chemistry, Applications II
11:00 – 12:30	E. Goos	Statistical Thermodynamics, Thermochemical Quantities, Databases
14:30 – 16:00		Quantum Chemistry I
16:30 – 18:00		Quantum Chemistry II
Wednesday, March 21		
9:00 – 10:30	G. Lendvay	Direct Bimolecular Reactions, Canonical Transition State Theory (TST)
11:00 – 12:30	M. Olzmann	Specific Rate Coefficients, $k(E, J)$
14:30 – 16:00	M. Olzmann	Master Equations, Unimolecular Reactions
16:30 – 18:00		TST
20:00 – 23:00		Dinner
Thursday, March 22		
9:00 – 10:30	M. Olzmann E. Goos	Master Equations, Complex-Forming Bimolecular Reactions
11:00 – 12:30	G. Lendvay	Approximate Representations
14:30 – 16:00		Specific Rate Coefficients, RRKM
16:30 – 18:00		Specific Rate Coefficients, SACM
Friday, March 23		
9:00 – 10:30		Master Equations I
11:00 – 12:30		Master Equations II

Registration	Building 30.41, Hörsaal II (lecture hall II), Fritz-Haber-Weg 6
Lectures	Building 30.41, Hörsaal II (lecture hall II), Fritz-Haber-Weg 6
Seminars/ Computer Exercises	Building 30.44, Room 408, Fritz-Haber-Weg 2