

Scientific Committee

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Brandenburg University of Technology,
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Extended Abstracts

The extended abstracts should be submitted as PDF files. Please restrict yourself to a maximum of 2 pages, and do not include page numbers. The paper format should be US Letter size, with a maximum file size of 2 MB. Use color figures as desired.

Please submit your extended abstract as a PDF file no later than March 15, 2015 via email to:

abstract@modelreduction.net

Local Organizer

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5th International
Workshop
on Model
Reduction
in Reacting
Flows

modelreduction.net

June 28th- July 1st 2015
Spreewald (south of Berlin)
Germany



Theoretical Foundations

Theoretical foundations of model reduction techniques, including definitions of slow, fast invariant manifolds and related subjects.

Mechanism Simplification

Chemical kinetic mechanisms simplification.

Model Reduction in ODE's, DAE's and PDE's

Computational Tools

Computational tools to analyze numerically generated reacting flows.

Applied Engineering*

* Additional topic

This biennial workshop brings together international experts on the theory and application of model reduction techniques in reactive flows. The objective of the workshop is to promote discussion and exchange of information among experts in this technical area, thereby promoting the advance of knowledge as regards the development of effective methods for model reduction in reacting flow.

Brandenburg University of Technology

The Brandenburg University of Technology was founded in 1991 and is the top technical university in state Brandenburg, Germany. In 2013, the University had 227 professors, 771 academic staff and 9,540 students, of which 1,600 are of foreign origin from over 100 nations.

The chair of Thermodynamics/Thermal Process Engineering develops detailed and reduced chemical mechanisms for reacting flows.



Spreewald

The Spreewald (German for "Spree Woods"; in Lower Sorbian: Blōta) is situated about 70km south-east of Berlin. It was designated a biosphere reserve by UNESCO in 1991. It is known for its traditional irrigation system which consists of more than 200 small channels (called "Fließe"; total length: 1,300 km) within the 484-square-kilometre (187 sq mi) area. The landscape was shaped during the ice-age. Alder forests on wetlands and pine forests on sandy dry areas are characteristic for the region.

It is a famous recreation famous for outdoor activities such as canoeing and bicycle trips. One can also find different spa resort and even a 'tropical paradise'-themed indoor holiday resort located in a 100m high hangar.

The center of Berlin can be reached by a direct train.

