



The German MATHEON and the Dutch 3TU.AMI together make up one of the largest mathematics consortia in Europe. Their mission is to bring the potential of modern applied mathematics to full use in key technologies and to support partners in industry, economy and science.

The DFG Research Center MATHEON was founded in 2002. It is a joint initiative of the three Berlin universities (FU, HU and TU) and the mathematical research centers WIAS and ZIB. 3TU.AMI started in 2010 - it is one of the seven Centers of Expertise of the 3TU.Federation, combining the strengths of Applied Mathematics at the Universities of Technology at Delft, Eindhoven and Twente.

The Embassy of the Kingdom of the Netherlands in Berlin plays a key role in stimulating the AMI- MATHEON collaboration and hosts the launching workshop.

# Management of Gas Networks: Mathematical Solution Technologies October 14, 2011

**09:00** Registration

**09:30** Welcome address

Frank Mollen, Deputy Ambassador of The Kingdom of The Netherlands to Germany

**09:40** Introduction to the Problem & Plans

Bernard Geurts, Scientific Director 3TU.AMI, The Netherlands - Chair of morning session

**10:00** STW's role in the Dutch Energy Research Policy

Chris Mommers, Vice Director, Technology Foundation-STW, The Netherlands

**10:20** German Energy Policy

Knut Kübler, Head Division for Energy Research,  
German Federal Ministry of Economics and Technology, Germany

**10:40** New Rules on Capacity Management Since 2011 - Regulatory Aims and Measures

Markus Backes, Assistant Head of Section "Gas Transmission Network Access,  
International Gas Trading", Federal Network Agency, Germany

**11:00** Break

**11:30** Numerical Methods for Energy Network Optimization

Kees Vuik, Professor for Numerical Mathematics, Technical University Delft, The Netherlands

**12:00** Impact of Liberalization on the Network Planning

Piet Nienhuis, Project Manager "Gas Transport Services", Gasunie, The Netherlands

**12:30** Lunch

**13:30** Program Summary

Volker Mehrmann, Chairman MATHEON, Germany - Chair of afternoon session

**13:45** From Simulation to Optimization

Martin Grötschel, Vice-President, Zuse Institute Berlin, Germany

**14:15:** Mathematical Optimization at Work

Thorsten Koch, Division Head, Zuse Institute Berlin, Germany

**14:45** Challenges for OGE and the FORNE Project

Ludger Sax, Vice President,  
Open Grid Europe, Germany

**15:15** Speeches by:

Mark Dierikx, Director General Energy, Telecom and Markets in the ministry of Economics,  
Agriculture and Innovation, The Netherlands

Volker Rieke, Director General European and International Cooperation, Ministry of  
Education und Research, Germany

Paul Uwe Thamsen, 1st Vice-President of the Technical University Berlin

Ed Brinkma, Rector Magnificus of the University of Twente, representing the 3TU Federation, The Netherlands

**16:00** Closing / Reception