

## Thursday, August 28<sup>th</sup>

- 09.00 Project working session 4 (same rooms)
- 12.30 Lunch
- 13.30 Concluding working session
- 16.50 Visiting Graasten Chapel and the Royal Castle in the Southern Jutland
- 19.00 ESGI47 Banquet

## Friday, August 29<sup>th</sup>

- 09.00 Opening remarks (room "Havesal")
- 09.10 Study Group Presentations and Recommendations (room "Havesal")
  - Project 1 (09.10 – 09.45)
  - Project 2 (09.45 – 10.20)
- 10.20 Coffee break
  - Project 3 (10.50 – 11.25)
  - Project 4 (11.25 – 12.00)
  - Project 5 (12.00 – 12.35)
- 12.35 Closing remarks (room "Havesal")
- 13.00 Lunch
- 14.00 Departures

### How to get there:

ESGI47 / Mathematics for Industry Workshop will take place in a picturesque area near the castle town Graasten.

**Address:** Graasten Landbrugsskole  
Fiskbækvej 15  
DK-6300 Graasten  
Tel. +45 74 65 10 24 / Fax +45 74 65 06 24

It takes about 20 minutes to get there by taxi from the Sønderborg airport and the Sønderborg train station.

If you travel by train from Copenhagen or Odense, your train will stop in Graasten, from where it will take you 5 minutes by taxi to get to the conference venue.

<http://www.esgi47.sdu.dk>  
E-mail: [esgi47@mci.sdu.dk](mailto:esgi47@mci.sdu.dk)

*Picture:  
Gråsten Castle*

## The 47<sup>th</sup> European Study Group with Industry and the Mathematics for Industry Workshop



**Denmark, August 24<sup>th</sup>-29<sup>th</sup>, 2003**

Sponsored by

MCI, Faculty of Science & Engineering,  
University of Southern Denmark,  
MASCI-net:  
Mathematics, Computing and Simulation for Industry

# PROGRAM

ESGI47, August 24<sup>th</sup>-29<sup>th</sup>, 2003

## Sunday, August 24<sup>th</sup>

- 15.30 Registration at the conference venue
- 18.00 Reception

## Monday, August 25<sup>th</sup>

*Breakfast every morning between 07.30 and 08.30*

- 09.00 Official opening of the ESGI47 (room "Havesal")  
Welcome by the Dean of the Faculty of Science & Engineering,  
University of Southern Denmark  
Administrative matters  
  
Industrial Project Presentations (room "Havesal")
- 09.30 Project 1: Stall Prediction Model (Grundfos)
- 10.00 Project 2: Model to Check Distance to Catalog  
Curve(Grundfos)
- 10.30 Coffee break
- 11.00 Project 3: Mathematical Analysis of the Dynamic Flow  
Characteristic in a Damping Nozzle for a Pressure  
Transmitter (Danfoss Industrial Controls)
- 11.30 Project 4: Trigger Algorithm for Ultrasonic Flow Metering  
(Danfoss Flow Division)
- 12.00 Project 5: Determination of Distance from a 2D Picture  
(Unisensor)
- 12.30 Lunch
- 13.30 Forming working groups.  
Brainstorming session:  
Project 1: }  
Project 2: } Rooms A-E, I or "blå stue"  
Project 3: }  
Project 4: }  
Project 5: }
- 18.00 Dinner

## Tuesday, August 26<sup>th</sup>

- 09.00 Project working session 1 (same rooms)
- 12.30 Lunch  
  
**ESGI47 Mathematics for Industry Workshop (room "Havesal")**
- 13.30 Industry & Science Collaborations  
*MCI Director Frands Voss*  
*Mads Clausen Institute, University of Southern Denmark*
- 14.15 Computational Methods for Estimation in the Presence of  
Uncertainty  
*Professor H. Thomas Banks*  
*Director of Center for Research in Scientific Computation*  
*North Carolina State University, United States*
- 15.15 Coffee break
- 15.30 Computational Modelling of Industrial Operations Involving  
Multi-physics and Multi-scale Processes  
*Professor Mark Cross*  
*Director of the Centre for Numerical Modelling and Process*  
*Analysis*  
*University of Greenwich, United Kingdom*
- 16.30 Mathematical Models of Hysteresis  
*Professor Martin Brokate*  
*Chair of Numerical Mathematics and Control*  
*Technical University of Munich, Germany*
- 18.15 Buffet Dinner and Networking

## Wednesday, August 27<sup>th</sup>

- 09.00 Project working session 2 (same rooms)
- 12.30 Lunch
- 13.30 Project working session 3 (same rooms)
- 17.10 Project progress summaries (room "Havesal")  
Project 1 (17.10 – 17.20)  
Project 2 (17.20 – 17.30)  
Project 3 (17.30 – 17.40)  
Project 4 (17.40 – 17.50)  
Project 5 (17.50 – 18.00)
- 18.00 Dinner