

Fees

Company submitting a problem
Academic participants

DKK 20 000
Free

Breakfast can be bought on campus for approx. DKK 40.

Lunch can be bought on campus for approx. DKK 50.

Daily dinner is included in the fees.

Deadline for submission of problems is 1 July 2006.

Deadline for submission of registration form is 31 July 2006.

The meeting starts Monday 14 August 10⁰⁰ and ends Friday 18 August 13⁰⁰.

Check-in and registration Sunday afternoon and Monday morning 9⁰⁰–10⁰⁰.

The industrial problems will be advertised as they become available on the web-address "<http://www.mat.dtu.dk/ESGI/57>".

For further information contact:

ESGI 57

Department of Mathematics
Matematiktorvet, Bygning 303
Technical University of Denmark
DK-2800 Kgs. Lyngby
DENMARK

Email: esgi@mat.dtu.dk

Fax: (+45) 4588 1399

WWW: <http://www.mat.dtu.dk/ESGI/57>



57th EUROPEAN STUDY GROUP with INDUSTRY



Technical University of Denmark
14 – 18 August 2006

What is a European Study Group with Industry?

A Study Group is a workshop where mathematicians work on problems directly related to industry. Workshops of this nature have taken place in Great Britain for a number of years, going back to 1968 when Prof. Alan Tayler started the *Oxford Study Group with Industry*. The coordination of Study Groups is now in the hands of *European Consortium for Mathematics in Industry* (ECMI), and the name is currently *European Study Group with Industry* (ESGI).

The format of a Study Group is a week-long meeting (Monday – Friday) where the participating companies on the first day of the meeting each present a problem they believe to be of a mathematical nature. Each such problem is taken up by a group of mathematicians who, together with the company representative, work towards the solution of the problem, through Thursday afternoon. Friday is used to present in a plenary session the results from each of the problem groups.

Shortly after the meeting a report is sent to the companies. After approval, the report is sent to all the participants and published on the net.

The reasons for the continuing success of the Study Groups are simple: The industrial participants get, for a very modest sum, a highly qualified ‘think tank’ of mathematicians to focus on their particular problem. Besides a full or partial resolution of the problem, the companies establish useful contacts with international researchers and prospective employies in the form of students. The academics benefit from new ideas and challenges from the real world, providing inspiration for both education and their own research. The students see mathematics at work and make can make useful contacts with companies.

The success criterion for a Study Group is that participating companies experience the meeting as useful and that it brings them a significant step closer to the resolution of their problem.

Among companies that have participated in previous Danish study groups are: Amrose, Danisco, Danish Maritime Institute, Danfoss, DSB S-train, HV-Turbo, LEGO, Novo Nordic, NKT Research, Scan Technology, Siemens Flow Instruments, and Unisensor.

Venue

ESGI 57 takes place at the Technical University of Denmark (DTU) in the week 14 to 18 August, 2006 hosted by the Department of Mathematics. The organizers are

- Associate Professor Poul Hjorth, phone: (+45) 4525 3061.
- Associate Professor Jens Gravesen, phone: (+45) 4525 3064.
- Professor Henrik G. Petersen, phone (+45) 6550 2324.
- Professor Morten Willatzen, phone (+45) 6550 1682.

The facilities available to the participants in the Study Group includes DTV (Technical Knowledge Center & Library of Denmark), access to powerful computers, advanced programs, and high speed access to the internet.



The European Consortium for Mathematics in Industry