

# Iceland

The island of natural wonders. Take advantage of the amazing Arctic summer nights with midnight golf, or paddle up close to millions of nesting sea birds on a sea-kayaking tour. July is the best month to visit and there are many exciting possibilities for social events and pre/post excursions:

- Hiking
- Bicycling
- World Class Seafood
- Bird Watching
- Horseback Riding
- Whale Watching
- Fishing
- Cultural Shows
- Museums & Galleries
- Glacier Tours
- Super Jeep Safaris
- Outdoor Swimming
- River Rafting

## Travel and Accommodation

Icelandair ([www.icelandair.net](http://www.icelandair.net)) offers regular flights from many cities in Europe and the USA and Iceland Express ([www.icelandexpress.is](http://www.icelandexpress.is)) flies from Copenhagen, Frankfurt Hahn and London. The conference office, Iceland Incentives Inc ([www.iii.is](http://www.iii.is)), has secured hotel rooms in various price categories for conference attendees. We highly recommend making reservations as early as possible (preferably no later than January 2006), since Reykjavik is a popular tourist destination during the summer months.



## Registration fees

Regular Early (before March 1, 2006)	€ 325
Regular Late (after March 1, 2006)	€ 400
Student Early (before March 1, 2006)	€ 125
Student Late (after March 1, 2006)	€ 200
Accompanying Persons	€ 75
Banquet (Tuesday night)	€ 55

Registration fees include the Welcome Reception, coffee breaks and lunches as well as the scientific programme.

For accompanying persons the registration fee includes participation in the Welcome Reception and a sightseeing tour of the city of Reykjavik.



## Important Dates:

- On-line registration opens in October 2005
- Recommended last date for hotel reservation: January 2006
- Deadline for abstract submission: March 1st, 2006
- Deadline for early registration: April 1st, 2006
- Conference: July 2-5th, 2006

## Contact Information

EURO XXI conference  
Professor Snjólfur Ólafsson  
University of Iceland  
IS-101 Reykjavik, Iceland

Tel: +354 525 4570  
Fax: +354 552 6806  
Email: [info@euro2006.org](mailto:info@euro2006.org)  
Web: [www.euro2006.org](http://www.euro2006.org)

euroXXI  
2006

# euroxxi 2006

July 2-5, Reykjavík, **Iceland**

**21st** European Conference on Operational Research

**Call for Papers**

OR for Better  
Management  
of Sustainable  
Development





# Welcome

www.euro2006.org

We would like to invite you to come and join us at the EURO 2006 conference in Iceland. Within the conference theme "OR for Better Management of Sustainable Development" we aim to showcase how OR can improve the management of this important topic that touches everyone in the world.

For decades, Icelanders have produced electricity by hydropower and heated their buildings by geothermal power. The Reykjavík public transportation authority is taking part in a pioneer project running some city buses on hydrogen fuel cells, using the world-first commercial hydrogen filling station.

Icelandic nature is characterized by variety. In just a few hours, you can drive through lava fields, mountains and meadows, past geysers and golf courses - even across glaciers. The countryside is dotted by numerous lakes, while streams cascade down the mountainsides in

countless waterfalls. The greatest challenge facing a visitor to Iceland may indeed be deciding on which adventure to enjoy.

Located on the volcanic Atlantic rift, midway between Europe and America, Iceland is a suitable location for a European meeting with international flavour. The Organising and Programme Committees are working hard to secure the quality of the academic program as well as that of other aspects of the conference.

A number of semi-plenary speakers will develop in depth the conference theme of "OR for Better Management of Sustainable Development". Many of the streams will be directly related to this theme and further papers in this area will be particularly welcome.

**Tuula Kinnunen,**  
Chair, Programme Committee

**Snjólfur Ólafsson,**  
Chair, Organising Committee

## Conference Highlights

The conference starts with a midnight sun welcome session on Sunday evening, July 2nd.

The scientific programme starts on Monday with an opening address by the **President of Iceland, Ólafur Ragnar Grímsson**. A welcome reception will take place that evening at the world-renowned Blue Lagoon spa. Bring your swimsuit for a once-in-a-lifetime experience!

The conference banquet will be held on Tuesday evening and will be accompanied by live music and other entertainment.

The closing session on Wednesday afternoon will include an address by the IFORS Distinguished Lecturer, **Saul Gass**.

## Conference Venue

The conference will be held at the University of Iceland at the heart of Reykjavík City. It offers excellent facilities with state-of-the-art visual equipment.

## Prizes and Awards

**The EURO Gold Medal** will be awarded to an outstanding contribution to Operational Research at the opening plenary session and the laureate(s) will give a speech.

**The 2006 EURO Excellence in Practice Award** for an outstanding application of Operational Research in practice will be presented at Tuesday's banquet.

**The EURO Management Science Strategic Innovation Prize 2006** is aimed at fostering specific areas of application of Operational Research in management.

**The Best Poster Award** and **the EURO Best Ph.D. Dissertation Award** will also be presented at the 2006 Conference.

## Special Journal Issue

Selected papers presented at the conference will be considered for publication in a special conference issue of the European Journal of Operational Research on "OR for Better Management of Sustainable Development". Full texts must be submitted by September 1st 2006.

### Programme Committee

**Chair:** Tuula Kinnunen, Finland Post Corp. (pcchair@euro2006.org)

**Plenary chair:** Gerhard-Wilhelm Weber, METU Ankara, Turkey  
Raymond Bisdorff, University of Luxembourg  
Jean-Pierre Brans, Vrije Universiteit Brussel (VUB), Belgium  
Ulrike Leopold-Wildburger, Karl-Franzens Universität Graz, Austria  
Snjólfur Ólafsson, University of Iceland  
Maurice Shutler, London School of Economics, United Kingdom  
Marino Widmer, University of Fribourg, Switzerland  
Martin Zachariassen, University of Copenhagen, Denmark

### Organising Committee

**Chair:** Snjólfur Ólafsson, University of Iceland (occhair@euro2006.org)

Gülay Barbarosoglu, Vice-President 1 of EURO  
Magnús M. Halldórsson, University of Iceland  
Ingjalður Hannibalsson, University of Iceland  
Thorkell Helgason, National Energy Authority  
Páll Jensson, University of Iceland  
Tuula Kinnunen, Finland Post Corp.  
Birna P. Kristinsdóttir, Alcan Iceland  
Bjarni Kristjánsson, Maximal Software  
Jakob Krarup, University of Copenhagen  
Hlynur Stefánsson, Imperial College London

## Parallel sessions

### Contributed Papers

All members of the international OR community are encouraged to contribute papers describing their current research and applications. Presentations from all areas of operational research are welcomed. Abstracts can now be submitted via the conference web site - [www.euro2006.org](http://www.euro2006.org). Please note that at most one paper can be accepted from the same lead author.

### Invited Papers

EURO Working Group members and other people have taken a major role in the conference and are organising several streams; see the list of streams accepted by August 2005. If you wish to organise a session or offer a paper within a stream, please contact the PC chair with your proposal ([pcchair@euro2006.org](mailto:pcchair@euro2006.org)).

### Discussion sessions

One of the streams consists of discussion sessions with contributed and invited presentations. If you wish to contribute to this stream please contact Professor Valerie Belton ([val@mansci.strath.ac.uk](mailto:val@mansci.strath.ac.uk)). All accepted discussion presentations may be candidates for the Best Poster Award.

## Semi-plenary sessions

Operational Research and Fisheries Management

**Ragnar Arnason**

Problem Structuring and Formulation in Decision Aiding

**Valerie Belton**

Dynamics and Control of Epidemic Processes

**Gustav Feichtinger**

Unified Approaches and Techniques for Approximation Algorithms to NP-hard Problems

**Dorit Hochbaum**

Energy, Environmental Management, and Sustainable Development

**Klaus S. Lackner**

Design and Optimization of Emission Trading Markets and Sustainable Bargaining Systems

**Stefan W. Pickl**

Global Optimization in Practice: Software and Applications

**János D. Pintér**

Pricing and Revenue Management with Endogenous Demand

**Ioana Popescu**

Social Choice and Computer Science

**Fred S. Roberts**

Problem Structuring and Sustainable Development

**Jonathan Rosenhead**

How Good are Interior Point Methods?

**Tamás Terlaky**

## List of accepted streams

### Adaptive Memory Programming

Cesar Rego

### Advanced Investment Analysis Models and Techniques

Mikael Collan

### Applied Probability

Ulrich Rieder

### Approximation Algorithms

Klaus Jansen and Magnús M. Halldórsson

### Auctions

Karla Hoffman

### Behavioural and Experimental Economics

Bernd Brandl and Stefan W. Pickl

### Business and Industry OR - Special Track

Bjarni Kristjánsson, Josef Kallrath, Jo van Nunen and Richard Rosenthal

### Combinatorial Optimization

Silvano Martello

### Complex Societal Problems

Dorien DeTombe

### Computational Biology and Bioinformatics

Jacek Blazewicz and Metin Türkay

### Convex Optimization Methods

Marc Teboulle

### Cutting and Packing

José Fernando Oliveira

### Data Mining

Emilio Carrizosa and Jacob Kogan

### DEA and Performance Measurement

Robert Dyson

### Discussion sessions

Valerie Belton

### Distributed Decision Making

Rudolf Vetschera

### Dynamic Programming

Moshe Sniedovich

### Dynamical and Anticipatory Systems

Daniel Dubois, Marat U. Akhmet and Hakan Öktem

### Electricity Markets

Daniel Ralph, Edward Anderson and Heinz Stigler

### Environmental Planning

Costas Pappis

### Financial Modelling

Jaap Spronk

### Forest Management and Wood Processing Industry

Manfred Gronalt

### Generalized Newton Methods

Liqun Qi

### Global and Local Derivative Free Optimization

Adil Bagirov and Alexander Rubinov

### Global Optimization: Deterministic and Stochastic Methods

Mirjam Dür

### Global Optimization: Software and Applications

János D. Pintér

### Human Centred Processes

Gilles Coppin and Philippe Lenca

### Industrial Application of Nonlinear Programming Algorithms

Klaus Schittkowski

### Industrial Modeling and Optimization

Josef Kallrath

### Linear Programming

Petra Huhn

### Linear Semi-Infinite Optimization

Miquel Goberna, Marco Lopez and Maxim Todorov

### Maritime Transportation

Marielle Christiansen

### Mathematical Programming

Mustafa Pinar and Raphael Hauser

### Metaheuristics

Marc Sevaux and Kenneth Sörensen

### Metric Regularity in Optimization & Non-Smooth Analysis

Alexander Ioffe and Assen Dontchev

### Modeling Social Systems

Markus Schwanninger

### Modelling of Economies and Societies in Transition

Z. Nahorski and W. Owsinski

### Models and Tools for Financial Planning

Gautam Mitra

### Multicriteria Decision Analysis

Theo Stewart and Valerie Belton

### Multiple Criteria Decision Aid

José Figueira

### Multiple Objective Optimization

Kathrin Klamroth and José Figueira

### Network Optimization

Bernard Fortz

### Nonlinear Semi-Infinite Optimization

Jan J. Rückmann and Oliver Stein

### Operations Management / Revenue Management

Ármann Ingólfsson and Ioana Popescu

### Optimization in Financial Mathematics

Ralf Korn and Mustafa Pinar

### Optimization in Postal Logistics

Hans-Jürgen Sebastian and Ulrich Plösser

### OR - The Profession

Jakob Krarup

### OR and Strategy

Maureen Meadows

### OR Education

Ármann Ingólfsson and Ioana Popescu

### OR in Agriculture and Forest Management

Luis M. Pla-Aragones

### OR in Developing Countries

Fernando Crespo, Leroy White, Sethuraman Janardhanan and Eric Soubeiga

### OR in Fisheries

Trond Bjordal

### OR in Health Care

Sally Brailsford and Jan Vissers

### Problem Structuring Methods / Soft OR

Sue Merchant and Alberto Franco

### Project Management

Luis Tavares

### Scheduling

Chris Potts

### Semidefinite Programming

Miguel Anjos

### Software for OR/MS

Bob Fourer and Bjarni Kristjánsson

### Stochastic Programming

Georg Pflug, Werner Römisch and Alexander Shapiro

### Supply Chain Management

George Doukidis

### Systems and Game Theory

Stefan W. Pickl and Ulrike Leopold-Wildburger

### Transportation

Maurizio Bielli

### Vehicle Routing

Daniele Vigo