5th International Conference "Inverse Problems: Modeling and Simulation" (IP:M&S) (May 24 -29, 2010, Antalya, Turkey)

The International Program Committee of the International Conference "Inverse Problems: Modeling and Simulation", International Society for Inverse Problems in Science and Engineering, and the Department of Mathematics and Computer Sciences of Izmir University, are pleased to invite you to the 5th International Conference "Inverse Problems: Modeling and Simulation" (IP:M&S) to be held from *May 24 -29, 2010, Antalya, Turkey,* in one of the distinguished hotels of the Mediterranean Region, in famous Lykia World & Links Golf Antalya hotel (http://www.lykiaworldantalya.com/).

We are looking forward to welcoming you in Antalya.

HISTORY & OBJECTIVIES

The International Conferences "Inverse Problems: Modeling and Simulation" have been held bi-annualy since 2002 at the end of May in the historic city of Oludeniz - Fethiye, on the Mediterranean Sea, in Turkey. The main aim of the Conference is to bring together all classical and new inverse problems areas from various international scientific schools, and to discuss new chalenges of inverse problems in current interdisciplinary sciences. All these International Conference are organizing under the auspices of the leading international journals "Inverse Problems", "Inverse Problems in Science and Engineering" and "Inverse and III-Posed Problems". The First International Conference "Inverse Problems: Modeling and Simulation", sponsored by Fethiye Municipality, Office of Naval Research International Field Office and Naval Undersea Warfare Center (USA), and also by Danish Interdisciplinary Inversion Group (DIIG) (Denmark), was held during July 12 - 21, 2002, in Fethive. Turkey. The Second International Conference "Inverse Problems: Modeling and Simulation", sponsored by Fethiye Municipality, international journals "Inverse Problems", "Inverse and III-Posed Problems", "Inverse Problems in Engineering", Scientific and Technological Research Council of Turkey (TUBITAK), was held during June 07 - 12, 2004, in Fethiye, Turkey. The Third International Conference "Inverse Problems: Modeling and Simulation" sponsored by Oludeniz Municipality, international journals "Inverse Problems", "Inverse and Ill-Posed Problems", "Inverse Problems in Science and Engineering", Scientific and Technological Research Council of Turkey (TUBITAK), was held during May 29 - June 02, 2006 in Fethiye, Turkey. **The Fourth** International Conference "Inverse Problems: Modeling and Simulation" was held during May 26 - 30, 2008. in the historic city of Oludeniz - Fethiye, on the Mediterranean Sea, in Turkey. The Conference is also sponsored by the Scientific and Technological Research Council of Turkey (TUBITAK), the International Association formed by the European Community, for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union (INTAS).

Approximately 1250 participants from 50 countries attended these four Conferences. There were about 45 main expository addresses, 35 organized sessions including several mini symposiums and 200 invited talks. These presentations were given by well-known experts on inverse problems in such diverse disciplines as mathematics, engineering sciences, medicine, aerospace engineering, economics and social sciences.

The Fifth International Conference "Inverse Problems: Modeling and Simulation" will be held during May 24-29, 2010, in one of the distinguished hotels of the Mediterranean Region, in famous Lykia World & Links Golf Antalya hotel (http://www.lykiaworldantalya.com/), Antalya, Turkey. The proposed International Conference will be under the auspices of the leading international journals, "Inverse Problems in Science and Engineering", "Inverse Problems", "Inverse and Ill-Posed Problems", and the International Society for Inverse Problems in Science and Engineering (ISIPSE). The organizers of the Conference, in particular Department of Mathematics and Computer Sciences Izmir University, Antalya Governorship and Antalya Metropolis Municipality will work to put together an excellent scientific program with social activities consisting of tours to historic places and boat rides.

CHAIR: A. Hasanoglu (Hasanov), Izmir University, Turkey <alemdar.hasanoglu@izmir.edu.tr>

CO-CHAIRS: G.S. Dulikravich , Florida International University, USA < dulikrav@fiu.edu >

S.I. Kabanikhin, Sobolev Institute of Mathematics, Russia <kabanikh@math.nsc.ru>

INTERNATIONAL PROGRAM COMMITTEE

V. Agoshkov (Institute of Numerical Mathematics, RAS, Russia) <agoshkov@inm.ras.ru>

J. A. Burns (Virginia Tech, USA) <burns@math.vt.edu>

D. Cioranescu (University Pierre et Marie Curie, France) <cioran@ann.jussieu.fr>

A.J. Kassab (University of Central Florida, USA) kassab@mail.ucf.edu

M. Klibanov (University of North Carolina at Charlotte, USA) <mklibanv@uncc.edu>

F. Kojima (Kobe University, Japan) <kojima@cs.kobe-u.ac.jp>

D. Lesnic (University of Leeds, Leeds, UK) <amt5ld@maths.leeds.ac.uk>

J. McLaughlin (Rensselaer Polytechnic Institute, USA) <mclauj@rpi.edu>

A. Nenarokomov (Moscow Aviation Institute, Russia) <nenar@cosmos.com.ru>

A. Neubauer (University of Linz, Austria) <neubauer@indmath.uni-linz.ac.at>

H.R.B. Orlande (Federal University of of Rio de Janeiro, Brazil) <helcio@mecanica.ufrj.br>

S. V. Pereverzyev (Johann-Radon-Institute – RICAM) <sergei.pereverzyev@oeaw.ac.at>

O. Scherzer (University of Innsbruck, Austria) <otmar.scherzer@uibk.ac.at>

M. Slodicka (Ghent University, Belgium) <ms@cage.ugent.be>

G. Uhlmann (University of Washington, USA) <gunther@math.washington.edu>

V.V. Vasin (Inst. Math. Mechanics, Ekaterinburg, Russia) <vasin@imm.uran.ru>

Y.-F. Wang (Chinese Academy of Sciences) <yfwang@mail.iggcas.ac.cn>

F. Zirilli (Universita di Roma La Sapienza, Italy) <f.zirilli@caspur.it>

INTERNATIONAL ORGANIZING COMMITTEE

Beilina L. (Chalmers University of Technology, Sweden), larisa.beilina@chalmers.se

Bektemesov M. (Almaty Pedagogical National University, Kazakhstan), hccs-adm@nursat.kz

Erdem A. (Kocaeli University, Turkey), erdem.arzu@gmail.com

Otelbaev M. L.N. Gumilev Euroasian National University, Kazakhstan), otelbaev m@rambler.ru

Pektas B. (Izmir University, Turkey), <u>burhanps@gmail.com</u>

Sebu. C. (Oxford Brookes University, UK) csebu@brookes.ac.uk

Shishlenin M. (Sobolev Institute of Mathematics, Russia), mshishlenin@ngs.ru

Tirvaki A. (Izmir University, Turkey), aydın.tirvaki@izmir.edu.tr

SPONSORS

- International Society for Inverse Problems in Science and Engineering (http://www.isipse.net/)
- Department of Mathematics and Computer Sciences, Izmir University (http://www.izmir.edu.tr)
- International journals:
- "Inverse Problems in Science and Engineering"
- "Inverse Problems"
- "Inverse and III-Posed Problems"
- Antalya Governorship
- Antalya Metropolis Municipality

ABSTRACT SUBMISSION

(this information will be available soon at: http://www.ipms-conference.org/abstract.htm)

MAIN TOPICS:

Main topics:

*Inverse Problems in: Biology and Bio-Medical Sciences, Electromagnetics, Mechanics, Chemistry; Economics, Acoustics, Geophysical Hydrodynamics (theory, algorithms, applications);

*Imaging Techniques:

*Statistical and Probabilistic Methods;

*Identification in Nonlinear Differential Equations;

*Design and Shape Optimization;

*Inverse Scattering and Time Reversal;

*Inverse Determination of Boundary and Initial Conditions;

*Computational Methods;

*Identifiability Concepts;

*Regularization Techniques;

*Data Analysis

MINISYMPOSIUMS:

Data Analysis (Chair: F. Zirilli)

Recent Progress in Regularization Theory, (Chair: B. Hofmann, A. Neubauer)

Inverse Problems in Elastoplasticity (Chair : A. Hasanov)
Inverse Problems in Nonlinear PDE (Chair : M. Slodiska)
Numerical Analysis of Inverse Problems (Chair: S.I. Kabanikhin)

(Other Minisymposiums and Special Sessions will be announced later)

AWARDS

Awards will be presented to young scientists of age below 40 at the time of the conference for particular merits in inverse problems analysis and its applications. Candidates for the awards may be nominated especially by Steering Committee Members of the International Society on Inverse Problems in Science and Engineering (http://www.isipse.net/), but also may apply by themselves. Nominations and applications should be sent before March 31, 2010 to the the contact address of the conference.

An Award Committee will select the awardees. Awards will only be given to participants.

HOTEL INFORMATION

The conference will be held in one of the best hotels of the Mediterranean Region, in famous LykiaWorld & LinksGolf hotel (http://www.lykiaworldantalya.com/), Antalya. This hotel is beautifully located between the Mediterranean Sea on one side and lush green forests and the Toros mountains on the other. It offers a unique scene where blue and green become one; one step away, you enjoy historical places and archaeological sites that are well worth visiting. LykiaWorld & LinksGolf Antalya has a beach of 2.5 km, the very first and the only links golf course on the shores of the Mediterranean and the hotel offering comfort, luxury and excitement amid Turkey's finest architecture and natural surroundings.

The hotel is located 50 km from Antalya airport.

Special prices for registred invited lecturers are (per night).

Single room: 100USD; Double room: 136 USD; Shared 70 USD

Prices include room, 3 meals, all alcoholic drinks (beer, vine, raki, votka, etc.), use of all restorants in the hotel.

These prices will be valid until January 31, 2010.

Payment for these hotel rooms can be done on arrival, but hotel reservation will be done by the organizing committee for only registered participants. Unfortunately, it is not possible to guarantee rooms without registration.

Participants should contact the organizers by e-mail to check the availability and to reserve hotel rooms. The deadline for reservation is January 31, 2010. Participants are strongly advised to reserve the rooms as soon as possible, since there are many activities in the Lykia World & Links Golf Hotel.

CONFERENCE VENUE

The Conference will take place at the Conference Center of the South Kensington campus of Lykia World & Links Golf Antalya hotel. Information on how to reach the campus of the hotel can be found on the hotel web site http://www.lykiaworldantalya.com/Cultures/en-US/AboutMeetingRooms.aspx



TRANSPORTATION

The Local Organizing Committee will organize a free transport/bus from Antalya Airport, on 24th of May, 2010, in the following time periods: 10:00-11:00AM; 15:00-16:00PM; 19:00-20PM. Hotel representative will meet participants at the exit of the Antalya Airport with a sign "International Conference IP:M&S-2010".

The Lykia World & Links Golf Hotel is located in Denizyaka at the coastline of Köprüçay, Antalya. Since Antalya International Airport is only 40min from the hotel, various kind of transportations from this airport are very easy.

VISAS

Participants from USA, Canada, Japan, China, European Union and former USSR countries can obtain a tourist visa to Turkey upon entry with a valid passport and payment of a fee (i.e., \$20 USD for US citizens). Participants from other countries should check the rules for their own passports with Turkish consulates in their countries.

SOCIAL PROGRAMS

Social programs consist of an opening ceremony, cocktail party, banquet, visiting historical places and one day boat tour. There is no fee for registered participants.

REGISTRATION (In the bank transfer please show your name, family name and keep the receipt)

Registration Fees: Received

Before December 31, 2009 After January 01, 2010

Nonstudent Euro 200 Euro 250 Student / From Turkey Euro 100 Euro 150

Due to the expenses involving all participants including the members and invited speakers are required to pay the registration fee. Participants need to pay an additional EURO 100 to the account of the conference for each accompanying person.

BANK TRANSFER:

Name of the account holder: International Workshop

Address of the account holder: | Izmit - Kocaeli, Turkey

Name and number of the bank: Halkbank, HBTR2A

Address of the bank: Kocaeli - Izmit Branch, Kocaeli, Turkey

Number of the city Kocaeli-Izmit: 41A

Account number of the holder for 23000394 (USD) 2P000118(EURO)

payments: 10000766 (YTL)

SWIFT code: TRHBTR2AXXX

<u>IBAN code:</u> TR1800012009443000 (+ Account No)

DEADLINES

Proposals for Mini-Symposia: November 31, 2009

Abstract Submissions: January 31, 2010

CONTACT ADDRESSES

Professor Alemdar Hasanoglu

Department of Mathematics and Computer Sciences Izmir University, 35350 Uckuyular

Izmir, Turkey

Tel (mob).: +90 (532) 465-2884; Fax: +90 (532) 224-0909

E-mail: alemdar.hasanoglu@gmail.com

Burhan Pektaş (for registration and hotel information)

Alemdar Hasanoglu Department of Mathematics and Computer Sciences Izmir University, 35350 Uckuyular Izmir, Turkey

Tel (mob).: (90) 532 5943473; Fax: (90) 224 0909

E-mail: burhanps@gmail.com

A. Erdem (for abstract submission)

Kocaeli University, Department of Mathematics, Umuttepe Kampusu, Izmit-Kocaeli, 41380, Turkey.

Tel: (90) 262 303 21 02; Mobil Tel: (90) 533 730 45 22 E-mail: erdem.arzu@gmail.com