

# HARRACHOV 2007

## Computational Methods with Applications

August 19-25, 2007

Harrachov, Czech Republic

<http://www.cs.cas.cz/~harrachov>

Following two previous highly successful meetings in computational methods with applications held in Milovy in previous years (Iterative Methods and Parallel Computing 1997 and 2002) we will organize from August 19th to 25th, 2007 the third meeting under the name Harrachov 2007. This conference is supported by AS CR (Academy of Sciences of the Czech Republic), DFG (Deutsche Forschungsgemeinschaft), GAMM (Gesellschaft für Angewandte Mathematik und Mechanik), it has been endorsed by ILAS (The International Linear Algebra Society), and it is organized in cooperation with the Society for Industrial and Applied Mathematics (SIAM), SIAM Activity Group on Linear Algebra (SIAG/LA).

### Character

We wish to continue in the tradition of the friendly and stimulating atmosphere of the previous events. In particular we will combine an intense scientific program based on the well-balanced choice of invited plenary talks by distinguished scientists with parallel sessions of contributed talks. We assume that sufficiently long afternoon breaks will allow a lot of discussions and interactions among participants. The program will be planned for full five days Monday through Friday (arrival Sunday afternoon, departure Saturday morning) with Wednesday afternoon devoted to a trip. Thursday afternoon and Friday will be mostly devoted to lectures of the special event: The 6th GAMM Workshop on Applied and Numerical Linear Algebra coorganized with GAMM (Gesellschaft für Angewandte Mathematik und Mechanik).

### Location

The meeting will be held at the hotel Sklar (literally "Glassmaker") (<http://www.ubytovani.cz/ubytovani/hotel/harrachov/orea-hotel-sklar/4214/>) which is located in the Giant Mountains resort Harrachov. The hotel offers modern conference facilities and a lot of indoor and outdoor activities. The transportation from and to Prague (approximately 100 kilometers or 65 miles) will be provided by conference buses on August 19th and August 25th, respectively. The place is close to the border with Germany and Poland and it is easily accessible by car from Zittau (70 km, 50 miles) and Jelenia Gora (35 km, 20 miles).



### Registration and Submission of Abstracts

For the preliminary registration please use the electronic registration form at the conference web page <http://www.cs.cas.cz/~harrachov> which contains additional information. We would appreciate if you could register soon.

The deadline for submitting an abstract is **January 15, 2007**. All participants will be notified about the acceptance of their contributions by **February 26, 2007**.

Conference proceedings will be published as a special volume of **ETNA** after the meeting. All submitted papers will be subject to standard refereeing procedures. The submission deadline will be **November 30, 2007**.

## Scientific Program

As in previous meetings, the program will concentrate on computational methods, namely on methods of numerical linear algebra, their sequential and parallel implementations and applications. Since a considerable part of such applications arise from numerical solution of partial differential equations, we will support interactions with this application field by continuing our partnership with the series of meetings ALGORITMY which started with the 17th meeting in 2005 in Podbanské, organized by the Faculty of Civil Engineering, Slovak University of Technology, Bratislava.

## Confirmed Plenary Lectures

Vít Dolejší, *Charles University, Czech Republic*  
Lars Eldén, *Linköping University, Sweden*  
Mark Embree (ILAS speaker), *Rice University, USA*  
Heike Fassbender, *TU Braunschweig, Germany*  
Roland Freund, *University of California at Davis, USA*  
Martin Gander, *University of Geneva, Switzerland*  
Wolfgang Hackbusch, *Max Planck Institute, Leipzig, Germany*  
Nick Higham, *University of Manchester, Great Britain*  
Jörg Liesen, *TU Berlin, Germany*  
Jan Mandel, *University of Colorado at Denver, USA*  
Volker Mehrmann, *TU Berlin, Germany (SIAM representative)*  
Mario Ohlberger, *University of Freiburg, Germany*  
Dianne O'Leary, *University of Maryland, USA*  
Kumbakonam Rajagopal, *Texas A&M University, College Station, USA*  
Masahisa Tabata, *Kyushu University, Japan*  
Eugenii Tyrtshnikov, *Moscow State University, Russia*  
Sabine van Huffel, *K.U. Leuven, Belgium*  
Heinrich Voss, *Hamburg University of Technology, Germany*  
Joachim Weickert, *University of Saarbrücken, Germany*



## Program Committee

Mario Arioli, *RAL, Great Britain*  
Michele Benzi, *Emory University, Atlanta, USA*  
Michael Eiermann, *TU Freiberg, Germany*  
Lars Eldén, *Linköping University, Sweden*  
Heike Fassbender, *TU Braunschweig, Germany*  
Anne Greenbaum, *University of Washington, USA*  
Martin Gutknecht, *ETH, Zürich, Switzerland*  
Josef Málek, *Charles University, Czech Republic*  
Ivo Marek, *Charles University and Czech TU, Czech Republic*  
Volker Mehrmann, *TU Berlin, Germany*  
Karol Mikula, *Slovak University of Technology, Slovakia*  
Gerard Meurant, *CEA, France*  
Zdeněk Strakoš, *ICS AS CR, Prague, Czech Republic*  
Daniel Szyld, *Temple University, USA*  
Sabine van Huffel, *K.U. Leuven, Belgium*

## Local Organization

Hanka Bílková, Iveta Hnětynková, Miro Rozložník, Jurjen Duintjer Tebbens, Petr Tichý, Mirek Tůma,  
*Institute of Computer Science, Academy of Sciences of the Czech Republic, Prague*