



The 14th International Symposium on Magnetic Bearings

ISMB14

Linz, AUSTRIA
August 11-14, 2014

Organized by the **ACCM Austrian Center of Competence in Mechatronics**

The International Symposium on Magnetic Bearings is the oldest and nowadays, the most important conference series on magnetic bearings. It succeeded in bringing together magnetic bearing experts from all over the world in order to present and discuss new results and trends in magnetic bearing technologies and to act as a stimulus for intensifying magnetic bearing approaches in research and product development.

In this event, the industrial implementation of magnetic bearing technology shall be given proper space without losing sight of the approved scientific accents. The involvement of industry shall be particularly stimulated by mini-symposia devoted to magnetic bearing problems, especially in a mechatronic sense, and to application examples.

Symposium Scope

The conference covers all of the magnetic bearing disciplines, in particular, but not exclusively:

- Active magnetic bearings (AMB)
- Passive magnetic bearings (PMB)
- Hybrid bearing systems
- Bearingless motors
- Smart bearings
- Industrial applications
- Sensors and sensorless techniques
- Back up / Touch down bearings
- Power electronics for magnetic bearings
- Modelling, simulation, design and verification
- Advanced control
- Rotor dynamics
- Fault detection and diagnosis

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- Safety and reliability aspects
- Components and materials

Mini-Symposia

Mini-symposia within the conference can be proposed for any topic related directly or indirectly to magnetic bearing technology; organizers are requested to compose their mini-symposium in close coordination with the conference chairs. The review of the mini-symposia contributions will be coordinated by the respective organizer.

Participants interested in contributing to the mini-symposia are requested to contact the respective organizers. The list of mini-symposia and organizers' contact data will be successively published at the conference homepage.

Important Dates, Conference Fees

Papers / Special proposals:

- Mini-symposia proposals: **November 17th, 2013**
- **Digest** (2-4 pages): **January 19th, 2014**
- Acceptance notification, review comments: **April 6th, 2014**
- **Final paper submission** (4-6 pages): **June 15th, 2014**
 - Industrial partners are offered the possibility of submitting **their presentation instead of a final paper** for publication. However, the digest is nevertheless mandatory!
 - Please note that we reserve the right to **demand changes** in your final submission if the required publication standards are not met.

Registration & Fees

Please register via the conference homepage: <http://ismb14.magneticbearings.org>

- **Regular fee** (until July 27th, 2014)
 - Full registration: € 620,--
 - Student registration: € 310,--
 - One day participation (without gala dinner): € 250,--
- **Early fee** (until July 7th, 2014)
 - Full registration: € 560,--
 - Student registration: € 250,--

All conference attendees must register. Only participants with a full (non student) registration are entitled to contribute and present a paper at the symposium. Personal badges will be provided to

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identify registered participants. Please identify the paper to be covered by the registration when you register. All registrations include conference proceedings in electronic form, welcome-reception, gala dinner (except one day registration), lunches, coffee breaks, and closing reception.

Additional fees can be paid for

- Additional papers: € 150,-- per paper (please identify the additional paper you are paying for and which registration the additional paper is associated with)
- Gala dinner (extra ticket) € 70,--, spouse and children go free (with full or student registration) but registration is necessary
- Additional lunch tickets for the actual cost

Conference Proceedings

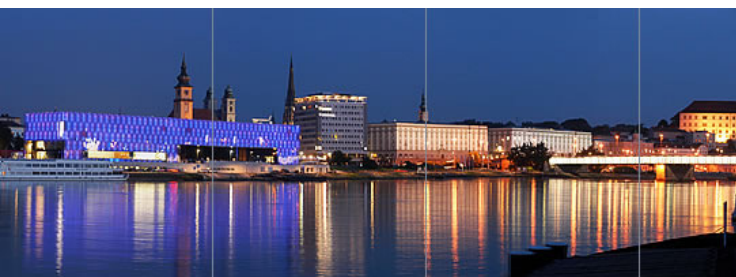
All submitted digests will be reviewed. Accepted papers will be published in the conference proceedings which will be handed out at the conference. After the event, the final papers will be available online at www.magneticbearings.org.

Publication of Selected Papers in Peer-Reviewed Journals

Negotiations with peer-reviewed international journals for additional selected publication are in progress. Authors of ISMB14 conference papers recommended during the review process will be invited to submit extended versions for journal publication. These works will undergo a separate journal review process.

Accommodation

Special rate hotel rooms of various price categories are offered for participants. Find detailed offers on the conference homepage.



Venue

The conference will be held at the campus of the Johannes Kepler University in Linz. The university, which is particularly renowned for its engineering department, was the first to introduce a full mechatronics curriculum at university level worldwide. The campus is nicely situated in the northern part

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of Linz bordering the picturesque region “Mühlviertel” and can be conveniently reached by public transport (tramway) from the city centre.

Linz (population ~200.000) is the capital of Upper Austria (“Oberösterreich”), a highly dynamic state with respect to technology and industry, tourism, and culture. Linz was the European Capital of Culture in 2009 and is an attractive city with scenic surroundings. The latter include the Salzkammergut (~1h trip from Linz), which offers many leisure opportunities with its numerous lakes and mountains.

Other major Austrian cities including Vienna and Salzburg can be conveniently reached by train.

Organized Sightseeing Tours

Two beautiful optional tours are organized within the conference program schedule to discover attractions of the city of Linz and historical und scenic sites of Upper Austria (a one-day tour on August 11th before the welcome-reception and a one-day tour on August 15th after the conference).

You are invited to look for more information on the conference homepage.

International Advisory Committee:

- Paul E. Allaire, USA
- Wolfgang Amrhein, Austria
- Hannes Bleuler, Switzerland
- Giancarlo Genta, Italy
- Shawn Gibson, Canada
- Tim Griffin, USA
- Larry Hawkins, USA
- Raoul Herzog, Switzerland
- Toshiro Higuchi, Japan
- Yefa Hu, China
- Mochimitsu Komori, Japan
- Lichuan Li, China
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- Takeshi Mizuno, Japan
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- Kenzo Nonami, Japan
- Yohji Okada, Japan
- Alan Palazzolo, USA
- Frank Pinckney, USA
- Jerzy Sawicki, USA
- Richard Stephan, Brazil
- Mike Swann, USA
- Gerhard Schweitzer, Brazil, Switzerland
- Hirochika Ueyama, Japan
- Giuseppe Vannini, Italy
- Lie Yu, China
- Suyuan Yu, China

International Program Committee (preliminary):

- Nicola Amati, Italy
- Junichi Asama, Japan
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- Katia Cavalca Dedini, Brasil
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- Alexei V. Filatov, USA
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- Wolfgang Gruber, Austria
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- Matthias Lang, Germany
- Jun-Ho Lee, Korea
- Torbjörn Lembke, Sweden
- Kun Liu, China

- Urban Lundin, Sweden
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- David L. Trumper, USA
- Satoshi Ueno, Japan
- Heinz Ulbrich, Germany
- Johann Wassermann, Austria
- Ralf Werner, Germany
- Frank Worlitz, Germany
- Longxiang Xu, China
- Pablo Yoon, USA
- Jin Zhou, China

Local Organizing Committee:

- Wolfgang Amrhein, Austria (Conference Chair)
- Wolfgang Gruber, Austria (Conference Co-Chair)
- Gerald Jungmayr, Austria (Conference Co-Chair)
- Hubert Mitterhofer, Austria (Conference Co-Chair)
- Siegfried Silber, Austria (Conference Co-Chair)
- Conference office: ismb14@magneticbearings.org

Not registered for www.magneticbearings.org yet?

Created after the last ISMB, this permanent web portal shall serve the international community as a public meeting and exchange point. Sign up for free and take advantage of the **open access to all previous ISMB publications** in the quickly growing online repository.

Another new feature for registered users has just been added to the web portal - browse the "**Jobs & Partners**" section or post your own job offer or research cooperation proposal. This offer was inspired by the high number of daily page views – in many countries, the web portal has quickly moved up to the first page of google's search results (key words: "magnetic bearings").

For adding your contribution to the web portal, feel free to contact us!



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