

THE 16TH

INTERNATIONAL SYMPOSIUM ON MAGNETIC BEARINGS (ISMB16)



AUG. 13—17, 2018 BEIJING
<http://www.ismb16.org>

THE 16TH INTERNATIONAL SYMPOSIUM ON MAGNETIC BEARINGS (ISMB16), HOSTED BY TSINGHUA UNIVERSITY, WILL BE HELD ON **AUGUST 13 TO 17**, 2018 IN BEIJING, CHINA. THE PRIMARY AIM OF ISMB16 IS TO PROMOTE SCIENTIFIC AND TECHNOLOGICAL EXCHANGES AMONG RESEARCHERS AND ENGINEERING PRACTITIONERS AROUND THE WORLD.

THE ISMB HAS BEEN PROVIDING A UNIQUE OPPORTUNITY TO MEET PROFESSIONAL COLLEAGUES IN THE FIELD OF MAGNETIC BEARING RESEARCH AND APPLICATIONS AROUND THE WORLD. INFORMATION ON THE HISTORY OF ISMB AND THE PAST SYMPOSIA CAN BE FOUND AT [HTTP://WWW.MAGNETICBEARINGS.ORG](http://WWW.MAGNETICBEARINGS.ORG).

SYMPOSIUM TOPICS

Topics of the symposium include but are not limited to:

- Active magnetic bearings (AMB)
- Passive magnetic bearings (PMB)
- Electrodynamic bearings (EDB)
- Superconducting magnetic bearings (SMB)
- Hybrid bearing systems
- Smart bearings
- Sensors, actuators, power electronics for magnetic bearings
- Self-sensing (sensorless) techniques
- Modeling, simulation, design and identification
- Advanced control
- Rotor dynamics
- Safety and reliability aspects
- Fault detection, diagnosis and tolerance
- Back up / Touch down bearings
- Components and materials
- Industrial, medical and aerospace applications
- Blood pumps, vacuum pumps and canned pumps
- Flywheels
- Ultra high speed bearings
- Micro bearings
- Electromagnetic suspensions (EMS)
- Electrodynamic suspensions (EDS)
- Diamagnetic levitation
- Electrostatic levitation
- Maglev train
- Magnetic transmission
- Other related new fields

EXHIBITION

The symposium will be accompanied by an exhibition. Magnetic bearing manufactures, part suppliers as well as research laboratories are encouraged to present their magnetic bearing systems, products and components to the assembled international community. Registration and information about space and utility requirements should be submitted to Exhibition@ismb16.org by May 30, 2018.

CALL FOR PAPERS

Submissions of 1 or 2-page abstracts will be accepted through the website (www.ismb16.org). The abstract must be in the PDF and Word formats and submitted on or before **MARCH 26, 2018**.

The ISMB16 organizers plan to publish the conference proceedings with an ISBN number.

IMPORTANT DATES

Abstract submission: March 26, 2018
Acceptance notification: April 20, 2018
Final submission (<10 pages): June 15, 2018
ISMB16 conference: August 13-17, 2018

VENUE

The ISMB16 will be held at Beijing International Convention Center (www.bicc.com.cn) in Beijing, China. The convention center and hotel is conveniently located near the Olympic Park and close to many restaurants. The area also features convenient transportations, beautiful sceneries and many historical and commercial attractions.

INTERNATIONAL ADVISORY COMMITTEE

- Beat Aeschlimann, Mecos AG, Switzerland
- Paul E. Allaire, University of Virginia, USA
- Wolfgang Amrhein, JKU, Austria
- Hannes Bleuler, EPFL, Switzerland
- Giancarlo Genta, Politecnico di Torino, Italy
- Shawn Gibson, SKF, Canada
- Larry Hawkins, Calnetix Technologies, USA
- Raoul Herzog, HEIG-VD, Switzerland
- Toshiro Higuchi, University of Tokyo, Japan
- Wilfried Hofmann, TU Dresden, Germany
- Yefa Hu, Wuhan University of Technology, China
- Richard Jayawant, Waukesha Magnetic Bearings, UK
- Patrick Keogh, University of Bath, UK
- Mochimitsu Komori, Kyushu Institute of Technology, Japan
- Lichuan Li, Xi'an Jiaotong University, China
- Zongli Lin, University of Virginia, USA
- Toru Masuzawa, Ibaraki University, Japan
- Takeshi Mizuno, Saitama University, Japan
- Myounggyu Noh, Chungnam National University, Korea
- Kenzo Nonami, Chiba University, Japan
- Yohji Okada, Ibaraki University, Japan
- Jerzy Sawicki, Cleveland State University, USA
- Gerhard Schweitzer, ETH, Brazil/ Switzerland
- Richard Stephan, UFRJ Rio de Janeiro, Brazil
- Hirochika Ueyama, MUTECS Inc., Japan
- Lie Yu, Xi'an Jiaotong University, China
- Suyuan Yu, Tsinghua University, China

DOMESTIC ADVISORY BOARD

- Gensheng Li
Academician of Chinese Academy of Engineering, Chairman of Fluid Engineering Society in Chinese Society of Mechanical Engineering, Vice president of China University of Petroleum (Beijing)
- Jianbin Luo
Academician of Chinese Academy of Sciences, Director of Institute of Mechanical Engineering, Tsinghua University
Dean of Tianjin Research Institute for Advanced Equipment, Tsinghua University
- Yuming Wang
Academician of Chinese Academy of Engineering, Professor of Tsinghua University
- Jiancheng Fang
Academician of Chinese Academy of Sciences, Vice president of Beihang University
- Lie Yu
Professor of Xi'an Jiaotong University
- Kun Li
Professor and vice president of Hefei General Machinery Research Institute
- Shengxiong Xue
Professor and Secretary General of Fluid Engineering Society in Chinese Society of Mechanical Engineering
- Guangzhong Cao
Professor and Associate Dean of School of Mechanical and Control Engineering, Shenzhen University
- Jiyong Dong
General Manager of Nanjing CIGU Limited Corporation
- Shenping Hong
Deputy Director of Zhuzhou High-tech Zone management committee
- Liheng Ma
Deputy Director of Zhuzhou High-tech Zone management committee
- Yusheng Hu
Dean of Institute of Electrical and Mechanical Technology, Gree Electric Appliances Inc.
- Kun Liu
Professor of National University of Defense Technology
- Shuqin Liu
Professor of Shandong University.



◎ Zhiqiang Long
Professor, National University of Defense Technology

◎ Longxiang Xu
Professor of Nanjing University of Aeronautics and Astronautics

◎ Gang Zhang
Professor of Shanghai University

◎ Lei Zhao
Professor of Tsinghua University

◎ Changsheng Zhu
Professor of Zhejiang University

GENERAL CHAIRS

◎ Suyuan Yu, Tsinghua University, China

◎ Zongli Lin, University of Virginia, USA

KEYNOTES

◎ Prof. Hannes Bleuler, Director of Robotic Systems Lab, EPFL
Lausanne, Switzerland

◎ Prof. Chen Chen, Soochow University, China

◎ Prof. ShyhLeh Chen, Chung Cheng University, China

◎ Profs. Hui Huang (CEO), Yusheng Hu (Chief Engineer Assistant), Gree Electric Appliance Inc., China

◎ Prof. Takeshi Mizuno, Saitama University, Japan

◎ Dr. Lei Zhu, Solar Turbines, USA

INTERNATIONAL PROGRAM COMMITTEE

◎ Jin Zhou (Chair), Nanjing University of Aeronautics and Astronautics, China

◎ Parinya Anantachaisilp, Royal Thai AirForce Academy, Thailand

◎ Andreas Binder, TU Darmstadt, Germany

◎ Chaoyun Chen, Industrial Technology Research Institute, China

◎ Shyh-Leh Chen, National Chung Cheng University, China

◎ Qingwen Cui, Politecnico di Torino, Italy

◎ Long Di, ASML-HMI, USA

◎ Afonso C. D. N. Gomes, UFRJ-PEE, Brasil

◎ Wolfgang Gruber, Johannes Kepler University Linz, Austria

◎ Bangcheng Han, Beihang University, China

◎ Jan Janse Van Rensburg, North-West University, South Africa

◎ Chaowu Jin, Nanjing University of Aeronautics and Astronautics, China

◎ Gerald Jungmayr, Linz Center of Mechatronics GmbH, Austria

◎ Nobuyuki Kurita, Gunma University, Japan

◎ Matthias Lang, Siemens, Germany

◎ Torbjorn Lembke, Lembke Innovation, Sweden

◎ Hongwei Li, Shandong University, China

◎ Chung Hsien Lin, M2TURBO, China

◎ Yingzhe Lin, NanJing CIGU Limited Corporation, China

◎ Eric Maslen, James Madison University, USA

◎ Edmund Marth, Johannes Kepler University Linz, Austria

◎ Massimiliano Ortiz Neri, GE Oil and Gas,Italy

◎ Andres O. Salazar, Universidade Federal doRio Grande do Norte, Brasil

◎ Masahide Ooshima, Tokyo University ofScience, Japan

◎ Florian Poltschak, University of Linz,Austria

◎ Fernando C. Pinto, UFRJ-PEM, Brasil

◎ Jan Sandtner, EPFL, Switzerland

◎ Honglei Sha, Tianjin Emaging TechnologyCo., Ltd, China

◎ Tadahiko Shinshi, Tokyo Institute of Technology,Japan

◎ Siegfried Silber, LCM GmbH, Austria

◎ Feng Sun, Shenyang University ofTechnology, China

◎ Andrea Tonoli, Politecnico di Torino, Italy

◎ David L. Trumper, Massachusetts Instituteof Technology, USA

◎ Satoshi Ueno, Ritsumeikan University, Japan

◎ Christian Vanek, HS Zittau/Görlitz, Germany

◎ Zixi Wang, Tsinghua University, China

◎ Frank Worlitz, HS Zittau/Görlitz, Germany

◎ Huachun Wu, Wuhan University of Technology,China

◎ Yuanping Xu, Nanjing University ofAeronautics and Astronautics, China

◎ Se Young Yoon, University of New Hampshire,USA

◎ Li Zhang, National University of DefenseTechnology, China

◎ Lei Zhu, Solar Turbines, USA

LOCAL ORGANIZATION COMMITTEE

◎ Honglei Sha (Chair), Tianjin Emaging Technology Co., Ltd., China

◎ Hongwei Li, Shan Dong University, China

◎ Li Zhang, National University of Defense Technology, China

◎ Chaowu Jin, Nanjing University of Aeronautics and Astronautics, China

PUBLICATION COMMITTEE

◎ Huachun Wu (Chair), Wuhan University of Technology, China

◎ Zhen Fu, Atomic Energy Press, China

◎ Toshiyuki TAKAGI, Editor-in-Chief of International Journal of Applied Electromagnetics and Mechanics, Japan

SPONSORSHIP COMMITTEE

◎ Zixi Wang (Chair), Tsinghua University, China

EXHIBITION COMMITTEE

◎ Feng Sun (Chair), Shenyang University of Technology, China

CONFERENCE SECRETARIAT

◎ Hanwei Jiao (Chair), Tsinghua University, China

◎ Hong Shen, Tianjin EmagingTechnology Co., Ltd., China

◎ Chaowu Jin, Nanjing University of Aeronautics and Astronautics, China

◎ Hong Tian, Tsinghua University, China

ISMB16 ORGANIZATIONS

»ADVISORY ORGANIZATIONS

◎ Chinese Society of Mechanical Engineering

◎ Fluid Engineering Society in Chinese Society of Mechanical Engineering

◎ Tianjin Research Institute for Advanced Equipment, Tsinghua University

»ORGANIZERS

◎ Tianjin Emaging Technology Co., Ltd.

◎ Key Laboratory for Thermal Science and Power Engineering of Ministry of Education

◎ Chinese National Association of Magnetic Levitation Technology

DIAMOND SPONSORS



中国动力谷
China Power Valley

轨道交通、通用航空、新能源汽车
Rail Transit • General Aviation • New Energy Vehicles

http://www.zzgxq.gov.cn/Category_670/index.aspx

Zhuzhou Hi-tech Zone China Power Valley
Technology Innovation Service Center



EMAGING
飞旋科技

[HTTP://WWW.EMAGING.COM.CN](http://www.emaging.com.cn)

Tianjin Emaging Technology Co., Ltd



GREE 格力

让世界爱上中国造

[WWW.GREE.COM.CN](http://www.gree.com.cn)

Gree Electric Appliances, Inc. of Zhuhai



磁谷科技
CIGU

[WWW.CIGU.ORG.CN](http://www.cigu.org.cn)

Nanjing CIGU Limited Corporation



中国航发动研所


[WWW.HNTIANRUI.COM](http://www.hntianrui.com)

Science & Technology Co. Ltd. of AECC,
Hunan Aviation Powerplant Research Institute

PLATINUM SPONSORS

TO BE ANNOUNCED

GOLD SPONSORS


[WWW.VIRGINIA.EDU/ROMAC](http://www.virginia.edu/romac)
Rotating Machinery and Controls Laboratory

SILVER SPONSORS


[WWW.SKF.COM](http://www.skf.com)
SKF (China) Sales Co., Ltd.

PUBLISHERS



<https://www.iospress.nl/journal/international-journal-of-applied-electromagnetics-and-mechanics/>

International Journal of Applied Electromagnetics and Mechanics



流体机械
FLUID MACHINERY

<http://ltjx.cbpt.cnki.net/WKE/WebPublication/index.aspx?mid=LTJX>

Fluid Machinery



actuators
an Open Access Journal by MDPI

<http://www.mdpi.com/journal/actuators>

Actuators



中国原子能出版社
China Atomic Energy Press

China Atomic Energy Publishing & Media Co., Ltd.

