

# ISMB19

## 19<sup>th</sup> International Symposium on Magnetic Bearings Otsu, Shiga, Japan, August 19-22, 2025

<https://www.jsme.or.jp/conference/ismb19/>

The nineteenth international symposium, ISMB19, will take place at Biwako Hotel in Otsu from August 19 to 22, 2025. The primary aims of ISMB19 are to promote scientific and technological exchange between Asia and other parts of the world, and to enhance the understanding and the dissemination of magnetic bearing technology worldwide. The ISMB is the major meeting for academic and industrial researchers from all over the world. Find out more on the history of ISMB and the past symposia at the web portal URL: <http://www.magneticbearings.org/>

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### Topics

Active magnetic bearings (AMB)  
Passive magnetic bearings (PMB)  
Electrodynamic bearings (EDB)  
Superconducting magnetic bearings (SMB)  
Hybrid bearing systems  
Self-bearing (bearingless) motors  
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  
Superconducting and high T<sub>c</sub> superconducting magnetic applications  
Blood pumps, vacuum pumps and canned pumps  
Flywheels  
Low loss and low power consumption magnetic bearings  
Ultra-high-speed bearings  
Micro bearings  
Electromagnetic suspensions (EMS)  
Electrodynamic suspensions (EDS)  
Diamagnetic levitation  
Electrostatic levitation  
MagLev trains  
Other related new fields

### Organizing Committee

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### Venue

The ISMB19 will be held at Biwako Hotel in Otsu (city), Shiga (prefecture), Japan. The hotel is located on the southern shore of Lake Biwa, where you can see a spectacular lake view. It can be reached by train in 10 minutes from Kyoto and 40 minutes from Osaka.

Otsu City is the ancient capital of Japan and home to many famous places including the World Heritage Site Hieizan Enryakuji.



<https://www.biwakohotel.jp>

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