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"Controlled Magnetic Bearings for Smart Machines" Prof. Gerhard Schweitzer (ICINCO 2015)

With his continued work on magnetic levitation principles and the industrialization of magnetic bearings at MECOS-Traxler AG, he contributed significantly to the progress of this research area. In 2006, he also organized and

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chaired ISMB10 in Martigny, Switzerland.  
Prof. Bleuler received the ISMB Outstanding  
Achievements Award in 2014.

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In the late 1980s, the research interest in magnetic bearings was growing quickly on an international level. The first international meeting, allowing the exchange and presentation of ideas and development results was organized in Zurich, Switzerland, in June 1988 by professor Gerhard Schweitzer.

History of ISMB - [magneticbearings.org](http://magneticbearings.org) |

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Magnetic bearings

A magnetic bearing is a type of bearing that supports a load using magnetic levitation. Magnetic bearings support moving parts without physical contact. For instance, they are able to levitate a rotating shaft and permit relative motion with very low friction and no mechanical wear. Magnetic bearings support the highest speeds of all kinds of bearing and have no maximum relative speed. Active bearings have several advantages: they do not suffer from wear, have low friction, and can often accommo

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Magnetic Bearing (Schweitzer) - Atuadores  
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Gerhard Schweitzer has been employed at the  
ETH Zurich since April 1978. He was Associate  
Professor and Full Professor of Mechanics and  
has been Full Professor of Robotics,  
beginning in 1989. The emphasis of his  
research work was on the field of

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mechatronics, especially interactive robots and contact-free magnetic bearings. He retired in April 2002.

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