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International Meeting on Chemical Sensors 2025, IMCS 2025

All eyes on chemical sensors: Fraunhofer IPM hosted the IMCS 2025

The International Meeting on Chemical Sensors took place in Freiburg, Germany, from June 22 to 26. Over 300 experts from research and industry gathered to discuss scientific advances and industrial applications in chemical sensor technology.

This year's IMCS in Freiburg featured biosensors for monitoring bodily functions, MEMS and NEMS sensors for high-precision detection of trace gases, and lab-on-a-chip and organ-on-a-chip applications for medicine and climate research. These are just a few of the event's many highlights, which took place at the Freiburg Konzerthaus under the direction of Fraunhofer IPM. Over the course of four days, researchers and industry representatives from around the world presented innovations and future applications in the field of chemical sensors. The presentations covered the full range of chemical sensor technology, from electrochemical and metal oxide sensors to biosensors, nanosensors, MEMS/NEMS sensors, and lab-on-chip systems to sensor materials, simulations, and data analysis. In addition to the presentations, there were two poster sessions and an industry exhibition. IMCS 2025 also offered great networking opportunities, including a kickoff event at Fraunhofer IPM and several evening events.

"We are proud to have hosted this prestigious conference in Freiburg," said conference chair Prof. Dr. Jürgen Wöllenstein, who is the head of department at Fraunhofer IPM and a Professor at the Department of Microsystems Engineering IMTEK at the University of Freiburg. „When so many experts come together, it opens up a wide range of perspectives. This is tremendously inspiring for our research."

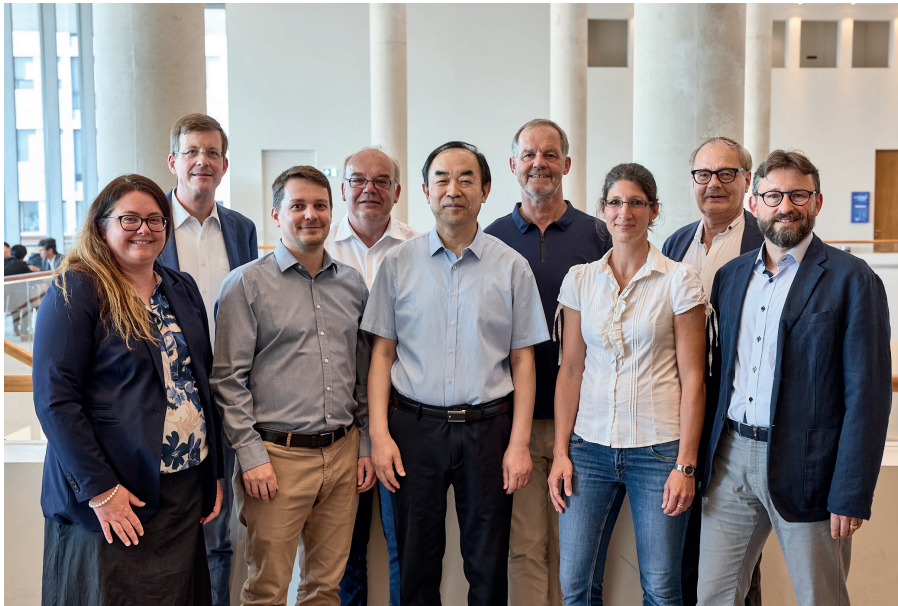
Since 1983, the IMCS has been held every two years in different cities around the world. The next conference is scheduled for July 2027 in Montreal, Canada.

Further information

<https://imcs2025.com/>
<https://www.imcs-conferences.org/>

Editorial notes

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The IMCS 2025 core team (from left to right): Jochen Kieninger (Publication Chair), Gerald Urban (Programme Chair) Katrin Schmitt (Local Scientific Chair), Albert van den Berg (Plenary Speaker), Lanqun Mao (Plenary Speaker), Jürgen Wöllenstein (Conference Chair) Andreas Günter (Plenary Speaker), Peter Lieberzeit (Executive Steering Committee Chair), Carolin Pannek (Local Organisation Chair) © Intercongress / T. Tanzyna

The **Fraunhofer-Gesellschaft**, based in Germany, is a leading applied research organization. It plays a crucial role in the innovation process by prioritizing research in key future technologies and transferring its research findings to industry in order to strengthen Germany as a hub of industrial activity as well as for the benefit of society. Founded in 1949, the Fraunhofer-Gesellschaft currently operates 75 institutes and research units throughout Germany. Its nearly 32,000 employees, predominantly scientists and engineers, work with an annual business volume of 3.6 billion euros; 3.1 billion euros of this stems from contract research.

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