MNE NEWSLETTER # 1

The **Micro and Nano Engineering (MNE)** conference is the flagship event of the international Micro and Nano Engineering society (iMNEs) and the premium international meeting on:

- micro/nanofabrication and manufacturing techniques
- application of micro/nanostructures, devices and microsystems into electronics, photonics, energy, environment, chemistry and life sciences.

In 2022, the MNE conference will include two series of special sessions: the **Plasma Etch and Strip for Microtechnology (PESM)** and the **Superconducting Micro- and nano-devices (SMND)** workshops.

IMPORTANT DATES & DEADLINES

Congress Dates : Monday 19 until Friday 23 September 2022

Abstract submission: **May 2nd, 2022**

Acceptance of abstracts : **June 5th,2022**

Registration will be open as from **May 1st, 2022**

Registration (early fees) : **Until July 15th, 2022**

Registration (standard fees) : **Until August 31st, 2022**

Registration Late Rate/On-site : **After August 31st, 2022** (no ON-SITE payment, online only)

MEET OUR PLENARY SPEAKERS

Prof. CHRISTOFER HIEROLD
ETH Zurich

"Concepts for Ultra Low Power Sensors"

Professor of Micro and Nanosystems at ETH Zurich, Switzerland. His research is focused on ultra low power sensors, carbon nanotube devices and functional material integration in MEMS. Prof. Hierold published more than 300 papers in journals and conference proceedings and is author or co-author of more than 35 patents. Since 2020, he is Member of the Editorial Board of the Proceedings of the IEEE. He is Board member of the Swiss Academy of Engineering Sciences SATW, and IEEE Fellow.

Prof. WEILEUN FANG
Tsing Hua University

"CMOS MEMS as the Platform Technology for More-than-Moore Applications"

Prof. Fang received his Ph.D. degree from Carnegie Mellon University in 1995. He joined the Power Mechanical Engineering Department at the National Tsing Hua University (Taiwan) in 1996, where he is Chair Professor as well as a faculty of the NEMS Institute. Prof. Fang has close collaboration with MEMS industries, is VP of MEMS and Sensors Committee of SEMI Taiwan.

Prof CHRIS VAN HOOF
Imec / KULeuven

"Predictive health based on multimodal sensing in and around the body"

After receiving a PhD in Electrical Engineering from the University of Leuven in 1992, Chris has held positions as manager and director at imec in highly diverse fields spanning technology, circuits, systems, data and applications. Chris is currently VP of Connected Health Solutions across three imec locations and managing director of the OnePlanet Research Center in Gelderland, the Netherlands.

Prof. LIEVEN VANDERSYPEN
QuTech / Delft university

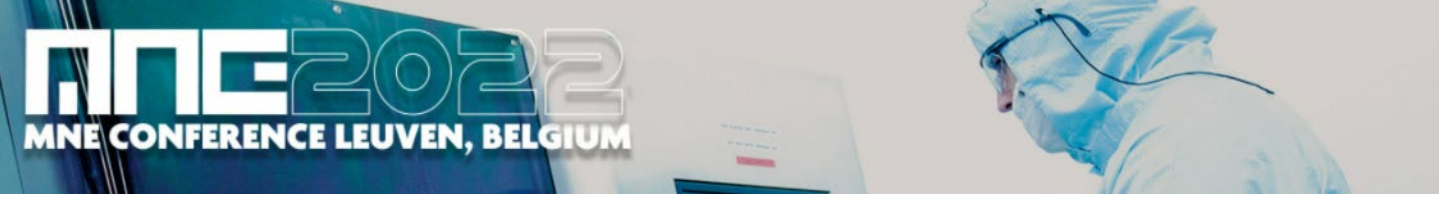
"Quantum Computing – Spins Inside"

Co-founder of QuTech and co-director of the Kavli Institute of Nanoscience at Delft University of Technology. A graduate of KU Leuven, he received his PhD from Stanford University for the first experiments in quantum computing and then joined TU Delft. With his QuTech colleagues, he currently focuses on taking the field to the next level, where exploratory physics goes hand in hand with high-level engineering. In 2015, his group started a close collaboration with Intel, and he took a part-time appointment with Intel Corporation.

Prof. JOS BENSCHOP
ASML / Twente university

"EUV lithography: past, present and future"

Prof. Benschop received his MSc and PhD from the faculty of physics in Twente University. As Senior VP Technology, he is responsible for research and system engineering within ASML. He is an SPIE fellow and part-time professor "NNV leerstoel Industriële Natuurkunde" at the University of Twente. He is a member of the Netherlands Academy of Technology and Innovation. He is appointed as advisor to the Dutch government on science, technology and innovation.



THE MNE FELLOW AWARD 2022

This year, the MNE Fellow award will go to Prof. Jürgen Brugger from EPFL for his contribution to the advancement of the field of MNE, i.e. the development of innovative novel micro/nano manufacturing strategies for MEMS and Nanotechnology.

It will be handed over by **HEIDELBERG instruments** and **iMNEs**, on Thursday September 22nd, at 8h45 during the plenary session.

Juergen Brugger is a Professor of Microengineering and co-affiliated to Materials Science. Before joining EPFL he was at the MESA Research Institute of Nanotechnology at the University of Twente in the Netherlands, at the IBM Zurich Research Laboratory, and at the Hitachi Central Research Laboratory, in Tokyo, Japan. He received a Master in Physical-Electronics and a PhD degree from Neuchâtel University, Switzerland.

Jürgen Brugger was appointed in 2016 as Fellow of the IEEE "For contributions to micro and nano manufacturing technology". In 2017 he was awarded an ERC Advanced Grant in the field of advanced micro-manufacturing.

HEIDELBERG INSTRUMENTS
The power of direct writing

MEE/MNE YOUNG INVESTIGATOR AWARD

Elsevier & the MNE Conference are eager to honor and promote Young researchers active in the fields of Nanofabrication and Nanotechnology for Electronics, MEMS and Life Sciences Microelectronic Engineering family (MEE/MNE). Do not hesitate to submit your application through this website BEFORE May 9th : Journal Elsevier-Applications

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