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• IEEE Fellows Recognition in the Field of MEMS/NEMS
• IEEE EDS Robert Bosch Micro and Nano Electro Mechanical Systems Award

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¹*Chonnam National University, KOREA,* ²*Korea Institute of Industrial Technology (KITECH), KOREA,*
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All times are Chinese Standard Time (CST).

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11:45	Conference Chairs Andreu Llobera, <i>Silicon Austria Labs, AUSTRIA</i> Ashwin Seshia, <i>University of Cambridge, UK</i>
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¹Chinese Academy of Sciences (CAS), CHINA, ²University of Chinese Academy of Sciences, CHINA,
³Shanghai Tech University, CHINA, ⁴Wuhan Research Institute of Posts and Telecommunications, CHINA,
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¹Northwestern Polytechnical University, CHINA, ²Hangzhou Dianzi University, CHINA

Session XIIb - Nano Material

Invited

- 14:10 CARBON NANOTUBES AS CONTACT MATERIAL FOR MEMS: ENHANCING SENSITIVITY, DURABILITY, AND FLEXIBILITY N/A**
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 Yonsei University, KOREA
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³Jiao Tong University School of Medicine, CHINA, ⁴ShanghaiTech University, CHINA,
⁵Neuroxess Co., Ltd., CHINA, ⁶Guangdong Institute of Intelligence Science and Technology, CHINA,
⁷Tianqiao and Chrissy Chen Institute for Translational Research
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¹Chinese Academy of Sciences (CAS), CHINA, ²ShanghaiTech University, CHINA,
³University of Chinese Academy of Sciences, CHINA

Poster Session III

- 15:10 Poster Session III**
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- 16:40 TOWARDS TACTILE SENSING HUB VIA CMOS-MEMS PLATFORM:
EFFECT OF CONTACT INTERFACE MATERIAL AND COIL TURNS
ON THE PERFORMANCE OF INDUCTIVE TACTILE SENSORS N/A**
Fuchi Shih, Mei-Feng Lai, Weileun Fang
National Tsing Hua University, TAIWAN
- 16:55 FROM MOTION TO MEDICINE: TRIBOELECTRIC NANOGENERATORS
IN NEXT-GEN HEALTHCARE AND HUMAN-MACHINE INTERACTION N/A**
Kumar Shrestha
Kwangwoon University, KOREA

17:10	Adjourn for the Day
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Thursday, 23 January

All times are Chinese Standard Time (CST).

Plenary Presentation IV

- 08:15 WILL ORGAN-ON-A-CHIP SURVIVE THE TEST OF TIME? N/A**
Sabeth Verpoorte
University of Groningen, NETHERLANDS

Session XIII - Innovative Sensor

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¹Kwangwoon University, KOREA, ²Korea Institute of Machinery and Materials, KOREA,
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- 09:15 DURABLE AG-COATED MICRO-CRACK VELCRO ELECTRODE
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¹Northwestern Polytechnical University, CHINA, ²Hangzhou Dianzi University, CHINA
- 09:30 IMPACT OF SKIN SURFACE PH ON INTERSTITIAL FLUID
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¹Beijing Institute of Technology, CHINA, ²Guangdong ACXEL Micro & Nano Tech Co., Ltd, CHINA

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¹Yonsei University, KOREA, ²Gyeongsang National University, KOREA

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Awards Ceremony and Final Remarks
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11:50	Awards Ceremony
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12:05	Final Remarks
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12:15	Conference Adjourns
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c - Industry MEMS and Advancing MEMS for Products and Sustainability
d - MEMS & NEMS Materials, Fabrication and Packaging
e - MEMS Actuators and PowerMEMS
f - MEMS Physical & Chemical Sensors
g - MEMS/NEMS for Optical, RF and Electromagnetics
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i - Open Posters

a - Bio and Medical MEMS
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a - Bio and Medical MEMS
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a - Bio and Medical MEMS
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STMicroelectronics, ITALY
- T85-i LASER DOPPLER VELOCIMETER USING ON-CHIP MICRO FRINGE PATTERN PROJECTOR FOR MICROFLUIDICS...N/A**
Hiroki Kumon, Masatoshi Takahashi, Kazuyoshi Hirose, Shu Honma, Hiroki Kamei, Tomohiko Hirano, Masakazu Katsumata, Hidenao Yamada
Hamamatsu Photonics K.K., JAPAN
- W82-i LEAD-FREE PIEZOELECTRIC MEMS ACOUSTIC EMISSION SENSOR COMPATIBLE WITH COMMERCIAL BULK AE SENSORS...N/A**
Yongfang Li, Yuki Ueda, Takashi Usui, Kazuo Watabe
Toshiba Corporation, JAPAN

- M81-i** **WORLD'S SMALLEST COMMERCIALIZED PARTICULATE MATTER SENSOR ENABLED BY AN INNOVATIVE SEMICONDUCTOR PACKAGE DESIGN...N/A**
Tobias Henn¹, Steve Lin¹, Nico Chou¹, Wallace Chuang¹, Chin Yi Cho¹, Anna Kamolawat², Martin Edel², Joachim Friedl², Florian Grabmaier³, Robert Weiss³
¹Robert Bosch Ltd., TAIWAN, ²Robert Bosch GmbH, GERMANY, ³Bosch Sensortec GmbH, GERMANY
- T86-i** **SINGLE-TRANSDUCER ULTRASONIC AIRFLOW-METER...N/A**
Stefano Sanvito¹, Marco Passoni², Marco Ferrera²
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- W83-i** **OPTIMIZATION OF THIN-FILM MAGNETOELECTRIC CANTILEVER THROUGH DUAL MODULATION OF MAGNETIC AND ELECTRIC BIAS FIELDS...N/A**
Yuxi Wang^{1,2,3,4}, Lihui Jin¹, Mingye Du¹, Jiawei Li¹, Daozheng Luo¹, Ruihong Xiong¹, Tao Wu^{1,2}
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- M82-i** **NUMERICAL FLUID-STRUCTURE INTERACTION WORKFLOW FOR PATTERN COLLAPSE PREDICTION DURING SEMICONDUCTOR FABRICATION...N/A**
Ashraful Islam, Gabriel Pichon, Rafael Salazar-Tio, Ganapathi Balasubramanian, Bernd Crouse, Junghan Kim, Seokwon Hwang, Yeongchan Yu
Dassault Systemes Simulia, USA