



Monday, 25 September

6pm **Welcome Reception**
Atrium

Tuesday, 26 September

8:30am **Opening Ceremony**
Plenary Hall

8:45am **Keynote, Andreas Tünnermann**
Plenary Hall

9:25am **Keynote, Bernard Kress**
Plenary Hall

10:05am **Coffee Break**
Atrium

10:35am **Keynote, Thomas Glinsner**
Plenary Hall

11:15am **Break**

11:30am **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
MOA12

11:30am

Scalable, Full-Wafer Fabrication of High Performance, All-Inorganic Metalenses, Waveguides and Diffractive Optics via Nanoimprint Lithography

» Dr. Dae Eon Jung (University of Massachusetts Amherst), Dr. Vincent Einck (University of Massachusetts Amherst), Mr. Lucas Verrastro (University of Massachusetts Amherst), Prof. Amir Arbabi (University of Massachusetts Amherst), Prof. James Watkins (University of Massachusetts Amherst)

11:45am

Investigation of different focused ion beam systems and milling strategies for structuring crystalline semiconductors and polycrystalline metal layers

» Dr. Thomas Loeber (RPTU Kasierslautern - Landau), Dr. Bert Laegel (RPTU Kasierslautern - Landau), Prof. Georg von Freymann (RPTU Kasierslautern - Landau)

12pm

Research and Development Activities of EUVL at NewSUBARU Synchrotron Light Facility

» Prof. Takeo Watanabe (University of Hyogo), Dr. Tetsuo Harada (Center for EUVL, Laboratory of Advanced Science and Technology for Industry, University of Hyogo), Dr. Shinji Yamakawa (Center for EUVL, Laboratory of Advanced Science and Technology for Industry, University of Hyogo)

12:15pm

Nano-antennas with decoupled transparent leads for opto-electronic studies

» Ms. Melanie Sommer (University of Tübingen), Dr. Florian Laible (University of Tübingen), Dr. Kai Braun (University of Tübingen), Prof. Alfred Meixner (University of Tübingen), Prof. Monika Fleischer (University of Tübingen)

11:30am

Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems

MOA4/5



Continued from Tuesday, 26 September

- 11:30am **Plasmonic black coatings with broadband absorption**
» Dr. Mario Ziegler (Leibniz Institute for Photonic Technology e.V.), Dr. David Zanders (Ruhr University Bochum), Mr. Valentin Ripka (Leibniz Institute for Photonic Technology e.V.), Mr. Hanjörg Wagner (Leibniz Institute for Photonic Technology e.V.), Ms. Vilborg Vala Sigurjónsdóttir (Leibniz Institute for Photonic Technology e.V.), Prof. Anjana Devi (Ruhr University Bochum), Dr. Uwe Hübner (Leibniz Institute for Photonic Technology e.V.)
- 11:45am **A spin-on-carbon/thin-metal based metasurface for broadband light modulation**
» Mr. Shuoqiu Tian (Fudan university), Prof. Yifang Chen (Fudan university)
- 12pm **Durable Icephobic Superhydrophobic Silicon Nanowires Surfaces**
» Mr. Miika Heikkilä (Aalto University), Ms. Laura Fieber (Aalto University), Mr. Seyed Mehran Mirmohammadi (Aalto University), Dr. Ville Jokinen (Aalto University), Prof. Sami Franssila (Aalto University)
- 12:15pm **Photoinduced reconfigurable hydrophilic pattern generation in thin film metal oxides**
» Mr. Jesper Navne (Technical University of Denmark), Ms. Rucha A. Deshpande (Technical University of Denmark), Mr. Mathias Adelmark (Technical University of Denmark), Mr. Evgeniy Shkondin (DTU Nanolab), Prof. Julien Bachmann (Friedrich-Alexander-Universität Erlangen-Nürnberg), Prof. Rafael Taboryski (Technical University of Denmark)
- 11:30am **Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems**
MOA6
- 11:30am **3D Printing of Molecularly Imprinted Polymers by Digital Light Processing for antibiotics recovery**
» Ms. Elena Camilli (Politecnico di Torino), Mr. Wei Tang (The University of Tokyo), Dr. Ignazio Roppolo (Politecnico di Torino), Dr. Francesca Frascella (Politecnico di Torino), Mrs. Valentina Bertana (Politecnico di Torino), Prof. Matteo Cocuzza (Politecnico di Torino), Prof. Tsuyoshi Minami (The University of Tokyo), Dr. Simone Luigi Marasso (CNR)

- 11:45am **Fully inkjet printed and metallized waveguide antenna for RADAR application**
» Mr. Peter Bauer (PROFACTOR GmbH), Mr. Gerald Stubauer (PROFACTOR GmbH), Dr. Pavel Kulha (PROFACTOR GmbH), Dr. Michael Haslinger (PROFACTOR GmbH), Mr. Christian Debatin (Notion Systems GmbH), Mr. Jochen Seeser (Notion Systems GmbH), Dr. Alexander Fischer (Robert Bosch GmbH), Dr. Istvan Denes (Robert Bosch GmbH), Dr. Dieter Holzinger (TIGER Coatings GmbH & Co KG), Dr. Doron Gurovich (PV Nano Cell Ltd), Mr. Semyon Melamed (PV Nano Cell Ltd)
- 12pm **Focused Ion Beam sample preparation for Reverse Tip Sample SPM applications**
» Mr. Pieter Lagrain (IMEC), Mr. Lennaert Wouters (IMEC), Mr. Kris Paulussen (IMEC), Dr. Eva Grieten (IMEC), Dr. Geert Van den Bosch (IMEC), Dr. Sana Rachidi (IMEC), Dr. Didit Yudistira (IMEC), Dr. Thomas Hantschel (IMEC)
- 12:15pm **Block copolymer nanostructured Si thin films for thermoelectric enhancement**
» Mr. Alex Rodriguez-Iglesias (Institute of Microelectronics of Barcelona (IMB-CNM-CSIC)), Dr. Iñigo Martín-Fernández (Institute of Microelectronics of Barcelona (IMB-CNM-CSIC)), Dr. Francesc Perez-Murano (Institute of Microelectronics of Barcelona (IMB-CNM-CSIC)), Dr. Joaquín Santander (Institute of Microelectronics of Barcelona (IMB-CNM-CSIC)), Dr. F. Xavier Álvarez (Universitat Autònoma de Barcelona (UAB)), Dr. Aitor F. Lopeandia (Universitat Autònoma de Barcelona (UAB)), Dr. Luis Fonseca (Instituto de Microelectrónica de Barcelona (IMB-CNM, CSIC)), Dr. Libertad Abad (Instituto de Microelectrónica de Barcelona (IMB-CNM, CSIC)), Dr. Marc Salleras (Instituto de Microelectrónica de Barcelona (IMB-CNM, CSIC)), Dr. Marta Fernández-Regúlez (Instituto de Microelectrónica de Barcelona (IMB-CNM, CSIC))
- 11:30am **Invited Talk Claudia Bock**
MOA9
- 12pm **Track4 - Micro/Nano Engineering for Physical and Chemical Applications**
MOA9



Continued from Tuesday, 26 September

12pm **Group IV nanowires for nano-/optoelectronic and sensing applications**
 » Dr. Muhammad Bilal Khan (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Ahmad Echresh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Sayantan Ghosh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Oliver Steuer (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Muhammad Moazzam Khan (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Slawomir Prucnal (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Lars Rebohle (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Shengqiang Zhou (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Prof. Manfred Helm (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Prof. Artur Erbe (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Yordan Georgiev (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR))

12:15pm **Gas sensing properties of thin Carbyne-enriched coatings on micro- InterDigitated Electrodes**
 » Dr. Ioannis Raptis (NCSR Demokritos), Dr. Petros Oikonomou (Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Aghia Paraskevi 15341, Attiki, Greece), Mr. Athanasios Botsialas (Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Aghia Paraskevi 15341, Attiki, Greece), Prof. Mariya Aleksandrova (TU Sofia), Dr. Angeliki Tserepi (Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Aghia Paraskevi 15341, Attiki, Greece), Dr. Evangelos Gogolides (NCSR Demokritos)

12:30pm **Lunch Break**

1:30pm **Invited Talk Marc Verschuuren**
 MOA12

Full wafer based soft-NIL of functional materials for photonics and bio applications

1:30pm **Focus Track - Next Generation Quantum Computing and related Materials/Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems**
 MOA4/5

1:30pm **Optimizing Josephson Junction manufacturing to increase yield and throughput in Qubit fabrication**
 » Dr. Marcus Rommel (Chalmers University of Technology)

1:45pm **Nanofabrication methodology and optimization for photon extraction on diamonds' NV center**
 » Dr. Mohammad Soltani (Institute for quantum computing (IQC), University of Waterloo), Dr. Behrooz Semnani (Institute for quantum computing (IQC), University of Waterloo), Mr. AbdolReza Pasharavesh (Institute for quantum computing (IQC), University of Waterloo), Mr. Vinodh Raj Rajagopal Muthu (Institute for quantum computing (IQC), University of Waterloo), Prof. Christopher Wilson (Institute for quantum computing (IQC), University of Waterloo), Prof. Michal Bajcsy (Institute for quantum computing (IQC), University of Waterloo)

2pm **Integrated superconducting single photon detectors for trapped ion quantum computers**
 » Mr. Philipp Hoffmann (Physikalisch-Technische Bundesanstalt (PTB)), Dr. Alexander Fernandez Scarioni (Physikalisch-Technische Bundesanstalt (PTB)), Dr. Sebastian Raupach (Physikalisch-Technische Bundesanstalt (PTB)), Mr. Peter Hinze (Physikalisch-Technische Bundesanstalt (PTB)), Dr. Thomas Weimann (Physikalisch-Technische Bundesanstalt (PTB)), Dr. Mark Bieler (Physikalisch-Technische Bundesanstalt (PTB))



Continued from **Tuesday, 26 September**

2:15pm

Design, fabrication and characterization of diamond nanophotonic structures for quantum networks applications

» Mrs. Nina Codreanu (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Dr. Lorenzo De Santis (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Mr. Matteo Pasini (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Mrs. Julia Brevoord (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Mr. Christian Primavera (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Mr. Adria Riera-Moral (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Prof. Ronald Hanson (QuTech and Kavli Institute of Nanoscience, Delft University of Technology), Prof. Simon Groeblicher (Department of Quantum Nanoscience and Kavli Institute of Nanoscience, Delft University of Technology)

2:30pm

MOCVD of 2D Materials and Heterostructures

» Mr. Jan Mischke (AIXTRON SE), Dr. Simonas Krotkus (AIXTRON SE), Dr. Sergej Pasko (AIXTRON SE), Mr. Haonan Tang (AIXTRON SE), Dr. Xiaochen Wang (AIXTRON Ltd.), Mr. Ben Conran (AIXTRON Ltd.), Dr. Clifford McAleese (AIXTRON Ltd.), Dr. Richard John Walker (AIXTRON Ltd.), Dr. Alexander Henning (AIXTRON SE), Prof. Prof. Dr. Michael Heuken (AIXTRON SE)

1:30pm

Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems

MOA6

1:30pm

Integrating top-down nanopatterning with bottom-up self-assembly to fabricate photonic cavities with atomic-scale dimensions

» Mr. Ali Nawaz Babar (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.), Mr. Thor August Schimmell Weis (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.), Mr. Konstantinos Tsoukalas (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.), Dr. Shima Kakhodazadeh (DTU Nanolab, Technical University of Denmark, Kgs. Lyngby, Denmark.), Dr. Guillermo Arregui (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.), Dr. Babak Vosoughi Lahijani (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.), Dr. Søren Stobbe (DTU Electro, Department of Electrical and Photonics Engineering, Technical University of Denmark, Kgs. Lyngby, Denmark.)

1:45pm

Evaluation of the van der Waals force on the CNT Slipping Process in Transmission Electron Microscope

» Mr. Keisuke Higashitani (University of Tsukuba), Prof. Samel Jeong (University of Tsukuba), Prof. Keishi Akada (University of Tsukuba), Dr. Toshihiko Fujimori (Sumitomo Electric Industries, Ltd.), Prof. Fujita Jun-ichi (University of Tsukuba)

2pm

Harvesting and optical manipulation of 4D printed hydrogel microrobots

» Mr. Stefan Sützl (Technical University of Denmark), Mr. Daniel Maher (Technical University of Denmark), Mr. Marcin Piekarczyk (Technical University of Denmark), Dr. Colm Delaney (Trinity College Dublin), Dr. Larisa Florea (Trinity College Dublin), Dr. Ada-Ioana Bunea (Technical University of Denmark)

2:15pm

Conventional fabrication techniques with high yield for a tuneable room temperature single-electron transistor and field-effect transistor

» Mr. Kai-Lin Chu (Imperial College London), Dr. Faris Abualnaja (Imperial College London), Mr. Wenkun He (Imperial College London), Dr. Mervyn Jones (Imperial College London), Dr. Zahid Durrani (Imperial College London)



Continued from Tuesday, 26 September

2:30pm **Structural and morphological study on a-Ge based nanostructures: dewetting from flat to patterned films**
 » Dr. Sonia Freddi (Institute of Photonics and Nanotechnology (IFN) – CNR), Mr. Michele Gherardi (Department of Physics, Politecnico di Milano), Dr. Dominique Chatain (Aix-Marseille Univ, CNRS, CINaM), Prof. Gianfranco Sfuncia (Istituto per la microelettronica e microsystemi (IMM) -CNR), Prof. Giuseppe Nicotra (Istituto per la microelettronica e microsystemi (IMM) -CNR), Dr. Mohammed Bouabdellaoui (Aix-Marseille Univ, CNRS, CINaM and Solnil), Ms. Chiara Barri (Department of Physics, Politecnico di Milano), Mr. Luca Fagiani (Politecnico di Milano), Dr. Alexey Fedorov (Department of Physics, Politecnico di Milano), Dr. Marco Abbarchi (Aix Marseille Univ, Université de Toulon and Solnil), Dr. Monica Bollani (CNR)

1:30pm **Track4 - Micro/Nano Engineering for Physical and Chemical Applications**
 MOA9

1:30pm **Micro-scaled chemical oscillator networks - towards chemical computing**
 » Ms. Jacqueline Figueiredo da Silva (IBM Research Zurich), Dr. Robert Lovchik (IBM Research Zurich), Dr. Vesna Bacheva (IBM Research Zurich), Ms. Ute Drechsler (IBM Research Zurich), Mr. Steffen Reidt (IBM Research Zurich), Prof. Juan Perez-Mercader (Harvard University), Dr. Armin Knoll (IBM Research Zurich), Dr. Heiko Wolf (IBM Research Zurich)

1:45pm **Laser production of clean energy by laser micro and nano-bubbling in liquids**
 » Prof. G.W. Yang (School of Materials Science & Engineering, Sun Yat-sen University, Guangzhou 510275, P. R. China)

2pm **Fabrication of self-powered wearable pressure sensing system based on PVDF-TrFE and ionic liquid**
 » Prof. Je Hoon Oh (Hanyang University), Ms. Chaeun Lee (Hanyang University), Mr. Changwoo Cho (Hanyang University)

2:15pm **Resonance tuning in plasmonic nanorings**
 » Mr. Wei Tao (University of Technology of Troyes), Dr. Florian Laible (University of Tübingen), Dr. Abdelhamid Hmima (University of Technology of Troyes), Ms. Oceane Guillot (University of Tübingen), Prof. Thomas Maurer (University of Technology of Troyes), Prof. Monika Fleischer (University of Tübingen)

2:30pm **Fabrication of silicon gratings for an X-ray free electron laser spectrometer**
 » Dr. Ioan Vila-Comamala (Paul Scherrer Institute), Dr. Elisabeth Marie Skoropata (Paul Scherrer Institute), Dr. Cristian Svetina (IMDEA Nanociencia), Prof. Luc Patthey (Paul Scherrer Institute), Dr. Konstantins Jefimovs (Paul Scherrer Institute), Dr. Elia Razzoli (Paul Scherrer Institute), Dr. Christian David (Paul Scherrer Institute)

2pm **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
 MOA12

2pm **An effective and promising process for manufacturing nanofluidic channels in large scale**
 » Mr. Wentao Yuan (Fudan university), Mr. Shuoqiu Tian (Fudan university), Prof. Yifang Chen (Fudan university)

2:15pm **3D laser direct lithography for maskless patterning on large-format complex surfaces**
 » Mr. Julian Hürtgen (Fraunhofer ILT)

2:30pm **Rapid Tooling for Injection Moulding with DLP 3D Printing**
 » Mr. Duarte Menezes (University of Glasgow), Ms. Alysha Hunter (University of Glasgow), Prof. Nikolaj Gadegaard (University of Glasgow)

2:45pm **Break**

3pm **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
 MOA12



Continued from Tuesday, 26 September

3pm

A Unique New Correlative Microscopy Platform for Combined Nanoscale Microscopy by Combination of AFM and SEM

» Dr. Christian Schwalb (Quantum Design Microscopy GmbH)

3:15pm

Millimeter-Scale Van Der Waals Graphene-MoS₂ Heterostructures Verified by Raman Spectroscopy

» Mr. Nico Rademacher (Chair of Electronic Devices, RWTH Aachen University), Mr. Eros Reato (Chair of Electronic Devices, RWTH Aachen University), Ms. Annika Grundmann (Compound Semiconductor Technology, RWTH Aachen University), Prof. Prof. Dr. Michael Heuken (AIXRT), Dr. Holger Kalisch (Compound Semiconductor Technology, RWTH Aachen University), Prof. Andrei Vescan (Compound Semiconductor Technology, RWTH Aachen University), Dr. Alwin Daus (Chair of Electronic Devices, RWTH Aachen University), Prof. Max C. Lemme (Chair of Electronic Devices, RWTH Aachen University and AMO GmbH, Advanced Microelectronic Center Aachen)

3:30pm

Wafer-Level Zone Casting of Additive-Free Graphene Dispersion

» Mr. Marc Stevens (Fraunhofer ENAS), Dr. Sascha Hermann (Fraunhofer ENAS)

3:45pm

Damage-free Plasma-assisted Atomic Layer Deposition of High-quality Dielectrics on 2D Materials

» Dr. Sarah Riazimehr (Oxford Instruments), Dr. Harm Knoop (Oxford Instruments), Mrs. Ardeshir Esteki (RWTH Aachen), Dr. Gordon Rinke (AMO GmbH), Mr. Martin Otto (AMO GmbH), Dr. Zhenxing Wang (AMO GmbH), Prof. Max Lemme (AMO GmbH), Dr. Katie Hore (Oxford Instruments)

4pm

Synthesis of super-flat graphene on substrates selected by molecular dynamics calculation

» Dr. Satoru Kaneko (KISTEC), Prof. Takashi Tokumasu (Tohoku University), Dr. Satomi Tanaka (KISTEC), Dr. Chihiro Kato (KISTEC), Dr. Manabu Yasui (KISTEC), Dr. Masahito Kurouchi (KISTEC), Dr. Daishi Shiojiri (aaa), Mr. Masahiko Mitsuhashi (KISTEC), Prof. Ruei-Sung Yu (Asia University), Dr. Shihgeo Yasuhara (Japan Advanced Chemicals), Prof. Musa Can (Istanbul University), Dr. Kripasindhu Sardar (National Cheng Kung University), Dr. Sumanta Sahoo (Radhakrishna Institute of Technology and Engineering), Prof. Masahiro Yoshimura (National Cheng Kung University), Dr. Akifumi Matsuda (Tokyo Institute of Technology), Prof. Mamoru Yoshimoto (T)

3pm

Invited Talk Michael Heuken

MOA4/5

3pm

Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems

MOA6

3pm

Dry release of MEMS Al₂O₃ origami for facet-based device integration with assistance of SU-8 reinforcement and folding stopping bars

» Mr. Jianran Zhang (Dresden University of Technology Center for Advancing Electronics Dresden), Dr. Carsten Strobel (TU Dresden), Prof. Thomas Mikolajick (Dresden University of Technology Center for Advancing Electronics Dresden), Dr. Robert Kirchner (Dresden University of Technology Center for Advancing Electronics Dresden)



Continued from Tuesday, 26 September

3:15pm

Near-infrared photodetectors based on single germanium nanowires

» Mr. Ahmad Echresh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Mohd Saif Shaikh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Prof. Manfred Helm (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Prof. Artur Erbe (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Yonder Berencén (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Lars Rebohle (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Yordan Georgiev (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR))

3:30pm

The coexistence of volatile and non-volatile resistive switching in WTe₂ conductive bridge random access memory devices for neuromorphic computing

» Dr. Haider Abbas (Nanyang Technological University), Dr. Asif Ali (Nanyang Technological University), Mr. Jiayi Li (Nanyang Technological University), Prof. Diing Shen Ang (Nanyang Technological University)

3:45pm

Development of thermal rectification on asymmetric defect engineered graphene device

» Dr. Mohammad Razzakul Islam (Japan Advanced Institute of Science and Technology), Dr. Afsal Kareekunnam (Japan Advanced Institute of Science and Technology), Prof. Hiroshi Mizuta (Japan Advanced Institute of Science and Technology)

4pm

2D BDiode – A Switchable Bidirectional Diode for Analog Electronic Circuits Fabricated Entirely from 2D Materials

» Dr. Christian Matthus (Chair for Circuit Design and Network Theory, Technische Universität Dresden), Mr. Phanish Chava (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Kenji Watanabe (Research Center for Functional Materials, National Institute for Materials Science, 1-1 Namiki, Tsukuba 305-0044, Japan), Dr. Takashi Taniguchi (Internat. Center for Materials Nanoarchitectonics, National Institute for Materials Science, 1-1 Namiki, Prof. Thomas Mikolajick (Dresden University of Technology Center for Advancing Electronics Dresden), Prof. Artur Erbe (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR))

3pm

Track4 - Micro/Nano Engineering for Physical and Chemical Applications

MOA9

3pm

3D printed diffractive optical elements for rapid prototyping.

» Dr. Daniel Fan (University of Melbourne), Dr. Sejeong Kim (University of Melbourne)

3:15pm

Bowtie photonic-crystal waveguides as strong light-matter interfaces

» Dr. Guillermo Arregui (Technical University of Denmark), Mr. Ali Nawaz Babar (Technical University of Denmark), Ms. Anastasiia Vladimirova (Technical University of Denmark), Mr. Christian Anker Rosiek (Technical University of Denmark), Dr. Babak Vosoughi Lahijani (Technical University of Denmark), Dr. Søren Stobbe (Technical University of Denmark)

3:30pm

qBIC-based metasurfaces on SOI for light polarization control

» Mr. Luca Fagiani (Politecnico di Milano), Dr. Luca Bolzonello (ICFO - Institut de Ciències Fotoniques), Dr. Johann Osmond (ICFO - Institut de Ciències Fotoniques), Prof. Domenico de Ceglia (University of Brescia), Prof. Niek Van Hulst (ICFO - Institut de Ciències Fotoniques), Dr. Monica Bollani (Institute of Photonics and Nanotechnologies - Consiglio Nazionale delle Ricerche (IFN-CNR)), Dr. Maria Antonietta Vincenti (University of Brescia)



Continued from Tuesday, 26 September

3:45pm **UV-NIL based High-Throughput, Reproducible, and Cost-Effective SERS Platforms**
» Dr. Firehun Dullo (SINTEF), Dr. Karolina Milenko (SINTEF), Dr. Christopher Dirdal (SINTEF), Mr. Paul Thrane (SINTEF), Mr. Zeljko Skokic (SINTEF)

4pm **High aspect ratio silicon-based micro- and nano-fabrication of optics for X-ray diagnostic imaging**
» Dr. Lucia Romano (ETH Zurich and PSI), Mr. Qihui Yu (ETH Zurich and PSI), Dr. Jelena Petrovic (ETH Zurich and PSI), Dr. Konstantins Jefimovs (Paul Scherrer Institute), Dr. Craig Lawley (ETH Zurich and PSI), Prof. Marco Stampanoni (ETH Zurich and PSI)

3:30pm **Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems / Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
MOA4/5

3:30pm **Scalable, Flame-resistant, Superhydrophobic Ceramic Metafibers for Sustainable All-day Radiative Cooling**
» Ms. Ching Wen Hwang (National Tsing Hua University), Ms. Meng-Ting Tsai (National Tsing Hua University), Ms. Pin-Hui Lan (National Tsing Hua University), Ms. Tai-Chi Chen (National Tsing Hua University), Prof. Dehui Wan (National Tsing Hua University)

3:45pm **Additive manufacturing-derived 3D pyrolytic carbon electrodes with hierarchical micro- and nanostructures for on-chip microsupercapacitors**
» Ms. Swetha Vasudevan Kanakkottu (Technical University of Denmark), Prof. Babak Rezaei (Technical University of Denmark), Prof. Stephan Sylvest Keller (Technical University of Denmark)

4pm **Harnessing Particle Raytracing for Real-Time Vapor Deposition Simulations in Evolving Topographies**
» Mr. Erik E. Lorenz (Fraunhofer ENAS), Mrs. Linda Jäckel (Fraunhofer ENAS), Dr. Jörg Schuster (Fraunhofer ENAS)

4:15pm **Poster Session1**
MOA10/11

Wednesday, 27 September

8:55am **Opening**
Plenary Hall

9am **MNE-Award**
Plenary Hall

9:25am **Keynote Kurt Ronse**
Plenary Hall

10:05am **Coffee Break**
Atrium

10:35am **Keynote Francesca Santoro**
Plenary Hall

11:15am **break**

11:30am **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
MOA12



Continued from **Wednesday, 27 September**

- 11:30am **Junctionless Nanowire Transistor: From Devices to Sensing Applications**
 » Mr. Sayantan Ghosh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Muhammad Bilal Khan (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Ahmad Echresh (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Mr. Ulrich Kentsch (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Slawomir Prucnal (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Ms. Vaishali Vardhan (University College Cork), Dr. Subhajit Biswas (University College Cork), Dr. John Wenger (University College Cork), Dr. Stig Hellebust (University College Cork), Prof. Justin Holmes (University College Cork), Prof. Artur Erbe (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)), Dr. Yordan Georgiev (Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf (HZDR))
- 11:45am **Two-photon laser 3D printing enhancement by quantum dots and in-situ exchange**
 » Dr. Ye Yu (HETEROMERGE GmbH, Gostritzer Str. 61, 01217 Dresden, Germany), Dr. Anatol Prudnikau (Center for Advancing Electronics Dresden (cfaed), Technische Universität Dresden, Helmholtzstr. 18, 01069 Dresden, Germany), Dr. Vladimir Lesnyak (Physical Chemistry, Technische Universität Dresden, Zellescher Weg 19, 01069 Dresden, Germany), Mr. Man Ho Wong (HETEROMERGE GmbH, Gostritzer Str. 61, 01217 Dresden, Germany), Ms. Madhuri Chennur (HETEROMERGE GmbH, Gostritzer Str. 61, 01217 Dresden, Germany), Ms. Tanya Saxena (HETEROMERGE GmbH, Gostritzer Str. 61, 01217 Dresden, Germany), Mr. Josua Zscheile (HETEROMERGE GmbH, Gostritzer Str. 61, 01217 Dresden, Germany), Dr. Robert Kirchner (TU Dresden)
- 12pm **Combining thermal scanning probe lithography and dry etching for grayscale nanopatterns amplification in SiO₂**
 » Mr. Berke Erbas (Ecole Polytechnique Federale de Lausanne (EPFL)), Dr. Ana Conde Rubio (ICMAB-CSIC), Dr. Xia Liu (Beijing Institute of Technology), Prof. Giovanni Boero (Ecole Polytechnique Federale de Lausanne (EPFL)), Prof. Jürgen Brugger (Ecole Polytechnique Federale de Lausanne (EPFL))

12:15pm

Multi-process compatibility of hybrid polymers allowing advanced micro- and nano-patterning

» Mr. Johannes Wolf (micro resist technology GmbH), Dr. Arne Schleunitz (micro resist technology GmbH), Dr. Maria Russew (micro resist technology GmbH), Mrs. Gabi Grützner (micro resist technology GmbH)

11:30am

Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems

MOA4/5

11:30am

Fabrication of electron transparent membranes and nanostructures in fluidic devices by nanoimprint lithography and "Flow-Through"-gas phase deposition

» Mr. Jeremy Teuber (Universität Hamburg), Mr. Manuel Müller (Universität Hamburg), Mr. Rukan Nasri (Universität Hamburg), Dr. Arwen Pearson (Universität Hamburg), Ms. Judith Estengre-Perez (Universität Hamburg), Dr. Irene Fernandez-Cuesta (Universität Hamburg)

11:45am

The performance improvement of multi-layered ZnO/SnO₂ thin-film transistors by varying growth temperatures

» Mr. Chan-Yeong Park (Department of Electrical and Electronics Engineering, Pusan National University), Mr. Se-Hyeong Lee (Department of Electrical and Electronics Engineering, Pusan National University), Ms. So-Young Bak (Department of Electrical and Electronics Engineering, Pusan National University), Mr. Dongki Baek (Department of Electrical and Electronics Engineering, Pusan National University), Mr. Hyeongrok Jang (Department of Electrical and Electronics Engineering, Pusan National University), Mr. Jinwoo Lee (Department of Electrical and Electronics Engineering, Pusan National University), Prof. Moonsuk Yi (Department of Electrical and Electronics Engineering, Pusan National University)

11:30am

Track3 - Micro/Nano Engineering for Life Sciences

MOA6



Continued from Wednesday, 27 September

11:30am **Nanowell field-effect transistors for biomolecule sensing**
» Dr. Lijun Liu (Ku Leuven, Celestijnenlaan 200f, Leuven, 3001, Belgium, IMEC, Kapeldreef 75, Leuven, 3001, Belgium), Dr. Sybren Santermans (imec v.z.w.), Dr. David Barge (imec v.z.w.), Mr. Jacobus Delpont (imec v.z.w.), Mr. Ashesh Raychaudhuri (imec v.z.w.), Dr. Simone Severi (imec v.z.w.), Prof. Pol Van Dorpe (IMEC), Dr. Koen Martens (IMEC)

11:45am **Self-powered bioelectronic nanogenerators and microdevices for cell stimulation**
» Dr. Gonzalo Murillo Rodríguez (Instituto de Microelectrónica de Barcelona (IMB-CNM, CSIC))

12pm **High resolution μ Grid-LED array with 15 μ m pixels for optogenetic research**
» Mr. Eric Klein (IMTEK - University of Freiburg), Prof. Oliver Paul (IMTEK, University of Freiburg), Dr. Patrick Ruther (IMTEK, University of Freiburg)

12:15pm **A Microfluidic-Based Quantitative Analysis System for the Multiplexed Genetic Diagnosis of Viral Infections in Multiple Samples**
» Mr. Daigo Natsuhara (Toyohashi University of Technology), Prof. Shunya Okamoto (Toyohashi University of Technology), Prof. Moeto Nagai (Toyohashi University of Technology), Prof. Masaru Ihira (Fujita Health University), Prof. Takayuki Shibata (Toyohashi University of Technology)

11:30am **Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems**
MOA9

11:30am **Integration of hard magnetic materials in MEMS devices**
» Dr. Federico Maspero (Politecnico di Milano), Mr. Simone Cuccurullo (Politecnico di Milano), Dr. Alejandro Plaza (Politecnico di Milano), Ms. Francesca Marson (Politecnico di Milano), Ms. Oksana Koplak (Politecnico di Milano), Mr. Andrea Del Giacco (Politecnico di Milano), Ms. Maria Cocconcelli (Politecnico di Milano), Ms. Giulia Pavese (Politecnico di Milano), Prof. Andrea Cattoni (Politecnico di Milano), Prof. Riccardo Bertacco (Politecnico di Milano)

11:45am **Simultaneous Estimation of dI/dV and dI/dZ with Ultrafast feedback loop for Scanning Tunnelling Microscopy**
» Ms. richa mishra mishra (The University of Texas at Dallas), Prof. Reza Moheimni (The University of Texas at Dallas), Dr. Ehud Fuchs (Zyvex Labs), Dr. James Owen (Zyvex Labs), Dr. John Randall (Zyvex Labs)

12pm **Through Silicon MEMS inspection with a near infrared laser scanning setup**
» Dr. Diogo E. Aguiam (International Iberian Nanotechnology Laboratory), Ms. Inês S. Garcia (International Iberian Nanotechnology Laboratory), Ms. Joana D. Santos (International Iberian Nanotechnology Laboratory), Dr. Filipe S. Alves (International Iberian Nanotechnology Laboratory)

12:15pm **Advanced defect detection procedure in immersion lithography for minimizing yield-killing defect classes through high sensitivity optical inspection, guided e-beam inspection, and AI technology by track parameters optimization**
» Dr. Jorge Pablo Nacenta Mendivil (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Mr. Alexis ROYER (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Mrs. Karine JULLIAN (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Dr. Michael MAY (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Mr. Fabrice KOUEMENI-TCHOUAKE (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Prof. Raluca TIRON (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Mr. Laurent Couturier (Applied Materials France, 864 Chem. des Fontaines, 38190 Bernin, France), Mr. Yuji Tanaka (SCREEN Semiconductor Solutions Co., Ltd. 480-1 Takamiya-cho, Hikone, Shiga, Japan), Mr. Christophe Couderc (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France), Dr. Masahiko Harumoto (SCREEN Semiconductor Solutions Co., Ltd. 480-1 Takamiya-cho, Hikone, Shiga, Japan), Mr. Masanes Masanes (Univ. Grenoble Alpes, CEA, Leti, F-38000 Grenoble, France)

12pm **Invited Talk Regina Luttgé**
MOA4/5

12:30pm **Lunch Break**



Continued from Wednesday, 27 September		
1:25pm	Honoring MNE Pioneer	
1:35pm	Keynote Uzodinma Okoroanyanwu <i>Plenary Hall</i>	
2:15pm	Break	
2:20pm	Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes <i>MOA12</i>	
2:20pm	New high-resolution SiO₂-based positive-tone resist for electron beam lithography » <u>Prof. Andrea Cattoni</u> (Politecnico di Milano), Dr. Dominique Mailly (Centre de Nanosciences et de Nanotechnologies (C2N) CNRS, Université Paris-Saclay), Prof. Ivan Maximov (Lund University)	
2:35pm	Greyscale lithography beyond 100 µm pattern depth facilitated by a novel photoresist and optimized processing » <u>Dr. Christine Schuster</u> (micro resist technology GmbH), Ms. Marina Heinrich (micro resist technology GmbH), Ms. Gerda Ekindorf (Heidelberg Instruments Mikrotechnik GmbH), <u>Dr. Anja Voigt</u> (micro resist technology GmbH), Dr. Arne Schleunitz (micro resist technology GmbH), Mrs. Gabi Grützner (micro resist technology GmbH)	
2:20pm	Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems <i>MOA4/5</i>	
2:20pm	3D Printed Microscale Static Geometry Check Valve » <u>Prof. (Edwin) En-Te Hwu</u> (Technical University of Denmark), Mr. Dali Reda (Technical University of Denmark), Dr. Tien-Jen Chang (Technical university of Denmark), Prof. Nikolaj Gadegaard (University of Glasgow), Prof. Anja Boisen (Technical University of Denmark)	
2:35pm	Design and All-In-One Etch of Silicon Metalens for Near-Infrared Focusing » <u>Dr. Bingrui Lu</u> (Technical University of Denmark), Mr. Søren Engelberth Hansen (Technical University of Denmark), Mr. Thor August Schimmell Weis (Technical University of Denmark), Dr. Guillermo Arregui (Technical University of Denmark), Dr. Søren Stobbe (Technical University of Denmark)	
2:20pm	Track3 - Micro/Nano Engineering for the Life Sciences <i>MOA6</i>	
2:20pm	Motor protein driven, active, on-chip transport and detection of nanoscaled, biomolecular cargo » <u>Mr. Tim Erichlandwehr</u> (Universität Hamburg), Dr. Marko Usaj (Linnaeus University), Prof. Alf Månsson (Linnaeus University), Dr. Irene Fernandez-Cuesta (Universität Hamburg)	
2:35pm	Adaptive resolution two-photon 3D printing with X-ray tomographic resolution optimization of ultracompact 3D microfluidics » <u>Dr. Markus Lunzer</u> (UpNano GmbH), Mr. Andrew Nelson Butterfield (Institute of Biomaterials and Biomolecular Systems, University of Stuttgart), Mr. Konstantinos Karpos (Department of Physics and The Biodesign Institute, Arizona State University), Dr. Christian Matthias Schlepütz (Swiss Light Source, Paul Scherrer Institute), Prof. Richard Kirian (Department of Physics and The Biodesign Institute, Arizona State University), Prof. Michael Heymann (Institute of Biomaterials and Biomolecular Systems, University of Stuttgart)	
2:20pm	Track3 - Micro/Nano Engineering for the Life Sciences <i>MOA9</i>	
2:20pm	Microfabrication of leaky optrode for cell replacement therapy in the brain » <u>Ms. Celine Dinesen</u> (Technical University of Denmark), Dr. Arto Heiskanen (Technical University of Denmark), Prof. Jenny Emnéus (Technical University of Denmark), Prof. Stephan Sylvest Keller (Technical University of Denmark)	



Continued from Wednesday, 27 September

2:35pm

Tuning the mechanical properties and feature resolution of two-photon polymerized soft elastomeric 3D biomaterials for (neuro)mechanobiology

» Mr. Pieter van Altena (Delft University of technology), Dr. Angelo Accardo (Delft University of technology)

2:50pm

Break

3pm

Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes
MOA12

3pm

Additive micro-structuring of non-planar optical waveguides for multifunctional neural interfaces

» Dr. Marco Bianco (Istituto Italiano di Tecnologia), Dr. Antonio Balena (Istituto Italiano di Tecnologia), Dr. Marco Pisanello (OptogeniX s.r.l.), Dr. Elisa Scarpa (Istituto Italiano di Tecnologia), Dr. Filippo Pisano (Istituto Italiano di Tecnologia), Dr. Barbara Spagnolo (Istituto Italiano di Tecnologia), Ms. Maria Samuela Andriani (Istituto Italiano di Tecnologia), Mr. Miroslav Stiburek (Institute of scientific instruments of Czech Republic, Complex photonics), Dr. Petra Kolbábková (Institute of scientific instruments of Czech Republic, Complex photonics), Dr. Hana Uhlířová (Institute of scientific instruments of Czech Republic, Complex photonics), Prof. Tomas Cizmar (Leibniz institute of photonic technology), Dr. Ferruccio Pisanello (Istituto Italiano di Tecnologia), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia)

3:15pm

Guided Domino Lithography for Uniform Ultra-Sharp Nanoantenna Arrays

» Mr. Dong Kyo Oh (pohang university of science and technology), Mr. Jaekyung Kim (pohang university of science and technology), Ms. Jihae Lee (pohang university of science and technology), Prof. Junsuk Rho (pohang university of science and technology)

3:30pm

Intra-level Mix and Match Approach of the Photoresist mr-EBL 6000.5 using E-Beam and i-line Stepper Lithography for PICs

» Mr. Sebastian Schermer (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Mr. Markus Reinhardt (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Dr. Christian Helke (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Ms. Susanne Hartmann (Technische Universität Chemnitz, Center for Microtechnologies, Reichenhainer Str. 70, 09126 Chemnitz, Germany), Dr. Georg Heldt (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Mr. Franz Tank (Technische Universität Chemnitz, Center for Microtechnologies, Reichenhainer Str. 70, 09126 Chemnitz, Germany), Dr. Anja Voigt (micro resist technology GmbH), Dr. Danny Reuter (Fraunhofer ENAS)

3:45pm

Novel Fabrication of Arbitrary Optical Probe Array by 4D Printing

» Dr. Dominique Decanini (C2N/CNRS-University Paris-Saclay), Mr. Abdelmounaim Harouri (C2N/CNRS-University Paris-Saclay), Ms. Ayako Mizushima (The University of Tokyo), Dr. Jongho Park (The University of Tokyo), Prof. Beomjoon Kim (The University of Tokyo), Prof. Yoshio Mita (The University of Tokyo), Dr. Gilgueng Hwang (LIMMS/CNRS-The University of Tokyo)

4pm

Penrose Patterns for Error Measurement in Electron Beam Lithography

» Dr. Paul Reynolds (University of Glasgow), Dr. Stephen Thoms (University of Glasgow)

3pm

Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems

MOA4/5

3pm

Development of surface acoustic wave phase modulators for physical reservoir computing

» Mr. Taiki Iijima (Kyoto University), Dr. Claude Meffan (Kyoto University), Prof. Amit Banerjee (Kyoto University), Dr. Jun Hirotani (Kyoto University), Prof. Toshiyuki Tsuchiya (Kyoto University)

3:15pm

A silicon carbide (SiC) carbon nanotube (CNT) composite for high aspect ratio harsh environment MEMS

» Mr. Jiarui Mo (Delft University of Technology), Mr. Shreyas Shankar (Delft University of Technology), Dr. Sten Vollebregt (Delft University of Technology)



Continued from Wednesday, 27 September

3:30pm

Parallel In-Plane Electrothermal Actuators

» Ms. Yen Nee Ho (UNSW Sydney), Dr. Aron Michael (UNSW Sydney), Prof. Chee Yee Kwok (UNSW Sydney), Dr. Cibby Pulikkaseril (Baraja)

3:45pm

Fabrication of On-Chip Carbon Microelectrodes by Catalytic Graphitization of 3D Printed Polymers

» Mrs. Zoi Maria Papadopoulou (National Centre for Nano Fabrication and Characterization, DTU Nanolab, Technical University of Denmark, 2800 Lyngby, Denmark), Ms. Swetha Vasudevan Kanakkottu (Technical University of Denmark), Prof. Babak Rezaei (Technical University of Denmark), Prof. Stephan Sylvest Keller (Technical University of Denmark)

4pm

Flexible photonic integrated circuit technology and characterization platform

» Mr. Franz Tank (Technische Universität Chemnitz, Center for Microtechnologies, Reichenhainer Str. 70, 09126 Chemnitz, Germany), Mrs. Julia Wecker (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Dr. Chris Stöckel (Fraunhofer ENAS; Technische Universität Chemnitz, Center for Microtechnologies, Germany), Dr. Christian Helke (Fraunhofer ENAS; Technische Universität Chemnitz, Center for Microtechnologies, Germany), Mrs. Alexey Shaporin (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Dr. Joerg Martin (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Mr. Sebastian Schermer (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Mr. Toni Großmann (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz), Dr. Karla Hiller (Fraunhofer ENAS; Technische Universität Chemnitz, Center for Microtechnologies, Germany), Dr. Danny Reuter (Fraunhofer ENAS; Technische Universität Chemnitz, Center for Microtechnologies, Germany), Mr. Micha Haase (Fraunhofer ENAS; Technische Universität Chemnitz, Center for Microtechnologies, Germany), Dr. Alexander Weiss (Fraunhofer ENAS, Technologie Campus 3, 09126 Chemnitz)

3pm

Track3 - Micro/Nano Engineering for Life Sciences / Track4 - Micro/Nano Engineering for Physical and Chemical Applications
MOA6

3pm

Electrode Design Using Multi-Material Topology Optimization for Accurate Measurement of Trans-Epithelial Electrical Resistance in Organ-on-a-Chip

» Mr. Haruki Goda (Kyoto University), Mr. Naoyuki Ishida (Kyoto University), Dr. Kozo Furuta (Kyoto University), Prof. Kazuhiro Izui (Kyoto University), Prof. Fred van Keulen (Delft University of Technology), Dr. Ken-ichiro Kamei (Kyoto University), Prof. Toshiyuki Tsuchiya (Kyoto University), Prof. Osamu Tabata (Kyoto University of Advanced Science), Dr. Yoshikazu HIRAI (Kyoto University)

3:15pm

The dual role of topographical and mechanical cues: a multi-modal platform for in vitro mimicking of cardiac microenvironment

» Ms. Denise Pagliara (Università degli Studi di Napoli "Federico II"), Dr. Raffaele Vecchione (Istituto Italiano di Tecnologia), Prof. Paolo Antonio Netti (Università degli Studi di Napoli "Federico II")

3:30pm

Engineering Ultrathin Si Membranes with sub-20 nm Pores at Wafer Scale

» Dr. Cian Cummins (imec v.z.w.), Dr. Sandeep Seema Saseendran (imec v.z.w.), Mrs. Aurelie Humbert (imec v.z.w.), Dr. Lubuna Shafeek (ISTA), Dr. Salvatore Bagiante (Institute of Science and Technology Austria (ISTA)), Dr. Lucas Lindeboom (Imec The Netherlands), Dr. Fokko Wieringa (Imec The Netherlands), Dr. Roberto Garcia van der Westen (Imec The Netherlands), Dr. Swathi Suran (Imec The Netherlands), Dr. Jeroen Vollenbroek (University of Twente), Dr. Geert Langereis (Imec The Netherlands), Dr. Patrick van Deursen (Imec The Netherlands), Dr. Simone Severi (imec v.z.w.)

3:45pm

Focused gold ion beam for the fabrication of sub-100 nm length InGaZnO thin film transistors on flexible substrates

» Dr. Elia Scattolo (FBK, Fondazione Bruno Kessler), Ms. Federica Catania (Free University of Bozen), Mr. Alessandro Cian (FBK, Fondazione Bruno Kessler), Dr. Niko Muenzenrieder (Free University of Bozen), Dr. Giuseppe Cantarella (University of Modena and Reggio Emilia), Prof. Paolo Lugli (Free University of Bozen), Prof. Luisa Petti (Free University of Bozen), Mr. Damiano Giubertoni (FBK, Fondazione Bruno Kessler)



Continued from **Wednesday, 27 September**

4pm
PEDOT:PSS deposition in OECTs: inkjet printing, aerosol jet printing and spin coating
» Ms. Giorgia Rinaldi (Politecnico di Torino), Dr. GIUSEPPE TARABELLA (CNR), Dr. Pasquale D'Angelo (CNR), Dr. Simone Luigi Marasso (CNR), Prof. Matteo Cocuzza (Politecnico di Torino), Prof. Fabrizio Pirri (Politecnico di Torino), Dr. Matteo Parmeggiani (Politecnico di Torino)

3pm
Invited Talk Irene Fernandez
MOA9

3:30pm
Track3 - Micro/Nano Engineering for Life Sciences
MOA9

3:30pm
Downscaling Roadmap for Single-Molecule Detection with Silicon Field-Effect Transistors
» Dr. Sybren Santermans (IMEC), Dr. Geert Hellings (IMEC), Dr. Willem Van Roy (IMEC), Prof. Pol Van Dorpe (IMEC), Dr. Koen Martens (IMEC)

3:45pm
Biocompatible AIN Thin Films for Continuous Pulse Wave Velocity Assessment Applied to Cardiovascular Health
» Ms. Angela Tafadzwa Shumba (Istituto Italiano di Tecnologia), Mr. Suleyman Mahircan Demir (Istituto Italiano di Tecnologia), Dr. Gaia de Marzo (Istituto Italiano di Tecnologia), Dr. Valeria Carluccio (Istituto Italiano di Tecnologia), Dr. Vincenzo Mastronardi (Istituto Italiano di Tecnologia), Dr. Luca Fachechi (Istituto Italiano di Tecnologia), Dr. Francesco Rizzi (Istituto Italiano di Tecnologia), Prof. Paolo Motto Ros (Politecnico di Torino), Prof. Danilo Demarchi (Politecnico di Torino), Prof. Luigi Patrono (University of Salento), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia)

4pm

Engineering of 3D printed pyrolytic carbon microneedle biosensors

» Mr. Filip Angelov (DTU Nanolab), Dr. Stephanie Bisgaard (DTU Nanolab), Dr. Jesper Yue pan (Technical University of Denmark), Prof. Babak Rezaei (Technical University of Denmark), Dr. Arto Heiskanen (Technical University of Denmark), Prof. Yi Sun (Technical University of Denmark), Prof. Stephan Sylvest Keller (Technical University of Denmark)

4:15pm
Poster Session 2
MOA10/11

6:30pm
Transfer by Bus

7pm
Gala Dinner
Event Location

Thursday, 28 September

8:40am
Young Investigator Award
Plenary Hall

8:55am
Plenary Talk Award Winner
Plenary Hall

9:25am
Keynote Robert Chau
Plenary Hall

10:05am
Coffee Break
Atrium



Continued from Thursday, 28 September

10:35am **Keynote Alexander Liddle**
Plenary Hall

11:15am **Break**

11:30am **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes**
MOA12

11:30am
Fast Hybrid-ALE to etch amorphous carbon.
» Ms. Atefeh Fathzadeh (KU Leuven University/ IMEC), Dr. Philippe BEZARD (IMEC), Prof. Stefan De Gendt (Ku Leuven / IMEC)

11:45am
Multi-layer nanoimprint lithography material system for nanopatterning of functional substrates
» Dr. Mirko Lohse (micro resist technology GmbH), Dr. Martin Messerschmidt (micro resist technology GmbH), Mrs. Nadja Heidensohn (micro resist technology GmbH), Mrs. Susanne Grützner (micro resist technology GmbH), Dr. Arne Schleunitz (micro resist technology GmbH), Mrs. Gabi Grützner (micro resist technology GmbH)

12pm
Plasma Parameters Impact on Carbon Microlens Shape and Surface Roughness
» Dr. Delia Ristoiu (STMicroelectronics, 850 rue Jean Monnet, 38926 Crolles Cedex, France), Mr. Pierre Ducluzaux (STMicroelectronics, 850 rue Jean Monnet, 38926 Crolles Cedex, France), Mr. Guillaume Claveau (STMicroelectronics, 850 rue Jean Monnet, 38926 Crolles Cedex, France), Ms. Ece Aybeke (STMicroelectronics, 850 rue Jean Monnet, 38926 Crolles Cedex, France), Mr. Etienne Mortini (STMicroelectronics, 850 rue Jean Monnet, 38926 Crolles Cedex, France)

12:15pm
Blurred Electron Beam Induced Deposition for Direct Fabrication of Plasmonic Nanoantennas onto Tapered Optical Nanofibers towards Enhanced Single Photon Emission

» Dr. Antonio Balena (Istituto Italiano di Tecnologia; Laboratoire Kastler Brossel), Dr. Chengjie Ding (Laboratoire Kastler Brossel), Mrs. Marianna D'Amato (Laboratoire Kastler Brossel), Dr. Muhammad Fayyaz Kashif (Istituto Italiano di Tecnologia), Dr. Filippo Pisano (Istituto Italiano di Tecnologia), Dr. Marco Pisanello (OptogeniX s.r.l.), Dr. Gaia de Marzo (Istituto Italiano di Tecnologia), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia), Prof. Alberto Bramati (Laboratoire Kastler Brossel), Dr. Ferruccio Pisanello (Istituto Italiano di Tecnologia)

11:30am **Track4 - Micro/Nano Engineering for Physical and Chemical Applications**
MOA6

11:30am
MEMS Vibrometer for Structural Health Monitoring: Modeling and Characterization

» Mr. Jan Niklas Haus (Technische Universität Braunschweig / Institut für Mikrotechnik), Mr. Zhengchun Zhu (Technische Universität Braunschweig / Institut für Mikrotechnik), Prof. Andreas Dietzel (Institute of Microtechnology, Braunschweig, 38124, Germany)

11:45am
Surface Lattice Resonances in Plasmonic Gold Nanocone Arrays
» Mr. Lukas Lang (University of Tübingen), Prof. Monika Fleischer (University of Tübingen)

12pm
Highly sensitive pseudo-capacitive iontronic pressure sensor with MXene electrode to enhance ion intercalation

» Mr. Changwoo Cho (Hanyang University), Ms. Chaeun Lee (Hanyang University), Prof. Je Hoon Oh (Hanyang University)

12:15pm
Evaluation of highly sensitive vibration states of nanomechanical resonators in liquid using a convolutional neural network

» Mr. Kazuki Bessho (The University of Tokyo), Prof. Shin'ichi Warisawa (The University of Tokyo), Prof. Reo Kometani (The University of Tokyo)

11:30am **Track2 - Fabrication and Integration of Micro/Nano Structures, Devices and Systems**
MOA9



Continued from Thursday, 28 September

11:30am **Plasmonic Metamaterial Absorber for MWIR and LWIR Bispectral Microbolometers**
» Mr. Alexander Litke (Fraunhofer IMS, 47057 Duisburg), Dr. Elahe Zakizade (Fraunhofer IMS, 47057 Duisburg), Dr. Marvin Michel (Fraunhofer IMS, 47057 Duisburg), Dr. Sascha Weyers (Fraunhofer IMS, 47057 Duisburg), Prof. Anna Lena Schall-Giesecke (Fraunhofer IMS, 47057 Duisburg)

11:45am **Liquid crystal integrated multifunctional metasurfaces for photonic security platform**
» Mr. Gyeongtae Kim (pohang university of science and technology), Dr. Inki Kim (pohang university of science and technology), Dr. Jaehyuck Jang (pohang university of science and technology), Prof. Junsuk Rho (pohang university of science and technology)

12pm **The state of the art and first glimpse of wood based printed electronics**
» Dr. Václav Procházka (PROFACTOR GmbH, Im Stadtgut D1, Steyr, Austria), Dr. Thomas Geiger (EMPA, Dübendorf, 8600, Switzerland), Dr. Pavel Kulha (PROFACTOR GmbH, Im Stadtgut D1, Steyr, Austria), Dr. André van Zomeren (TNO, 1755 LE Petten, Netherlands)

12:15pm **UV-Nanoimprint and Bosch Deep Reactive Ion Etching of metasurfaces and integration into thin-film piezoelectric MEMS**
» Dr. Christopher Dirdal (SINTEF), Dr. Karolina Milenko (SINTEF), Dr. Anand Summanwar (SINTEF), Dr. Firehun Dullo (SINTEF), Mr. Paul Thrane (SINTEF)

12:30pm **Lunch Break**

1:30pm **Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes / Track3 - Micro/Nano Engineering for Life Sciences**
MOA12

1:30pm

Advancements in Fabricating Polymer based Microring Resonators by Nanoimprint Lithography

» Dr. Santhosh Pandian (Nanophotonics Research Group, Tampere University, Tampere), Dr. Petri Karvinen (University of Eastern Finland, Joensuu), Dr. Heikki Rekola (University of Eastern Finland, Joensuu), Dr. Subhajit Bej (Nanophotonics Research Group, Tampere University, Tampere), Dr. Paul Müllner (AIT Austrian Institute of Technology GmbH), Dr. Eggeling Moritz (AIT Austrian Institute of Technology GmbH), Dr. Rainer Hainberger (AIT Austrian Institute of Technology GmbH), Prof. Tapio Niemi (Nanophotonics Research Group, Tampere University, Tampere)

1:45pm

3D Ice Lithography

» Dr. Bingdong Chang (Technical University of Denmark), Mr. Affan Kaysa Waafi (Technical University of Denmark), Mr. Joachim Lyngholm-Kjærby (Technical University of Denmark), Dr. Rubaiyet Haque (Technical University of Denmark), Prof. Anpan Han (Technical University of Denmark)

2pm

Manipulating droplet motion on superhydrophobic glass by contact electrification

» Mr. Kuan-Ting Chen (National United University), Prof. Jiann Shieh (National United University)

2:15pm

Biodegradable Chitosan / Cellulose Nanocrystals free-standing device as a multifunctional sensor for health applications

» Ms. Valentina Antonaci (Istituto Italiano di Tecnologia), Dr. Gaia de Marzo (Istituto Italiano di Tecnologia), Dr. Laura Blasi (National Research Council of Italy), Dr. Virgilio Brunetti (Istituto Italiano di Tecnologia), Dr. Francesco Rizzi (Istituto Italiano di Tecnologia), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia)

1:30pm

Track4 - Micro/Nano Engineering for Physical and Chemical Applications
MOA6



Continued from **Thursday, 28 September**

1:30pm

Scalable Si-based architectures obtained by templated solid state dewetting

» Dr. Sonia Freddi (Institute of Photonics and Nanotechnologies - Consiglio Nazionale delle Ricerche (IFN-CNR)), Dr. Michele Gherardi (Politecnico di Milano), Dr. Nicoletta Granchi (University of Florence), Dr. Angelo Gatta Zini (Politecnico di Milano), Dr. Alexey Fedorov (Institute of Photonics and Nanotechnologies - Consiglio Nazionale delle Ricerche (IFN-CNR)), Dr. Marco Abbarchi (Aix Marseille Univ, Université de Toulon and Solnil), Dr. Andrea Chiappini (Institute of Photonics and Nanotechnologies - Consiglio Nazionale delle Ricerche (IFN-CNR)), Dr. Maria Antonietta Vincenti (University of Brescia), Dr. Francesca Intonti (University of Florence), Dr. Monica Bollani (Institute of Photonics and Nanotechnologies - Consiglio Nazionale delle Ricerche (IFN-CNR))

1:45pm

Integration of Plasmonic Structures and Controlled Multimode Optical Fibers for Advanced Endoscopic Systems: Fabrication, Characterization, and Spatially Resolved SERS Enhancement

» Ms. Linda Piscopo (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, Arnesano,73010), Dr. Liam Collard (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, Arnesano,73010, Italy), Dr. Di Zheng (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, Arnesano,73010, Italy), Dr. Filippo Pisano (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, Arnesano,73010, Italy), Dr. Antonio Balena (Istituto Italiano di Tecnologia), Dr. Marco Pisanello (OptogeniX s.r.l.), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia), Dr. Ferruccio Pisanello (Istituto Italiano di Tecnologia)

2pm

Towards photon-noise limited room temperature IR detection using optomechanical resonators

» Mr. Paolo Martini (Institute of Sensor and Actuator Systems TU Wien), Mr. Kostas Kannelopoulos (Institute of Sensor and Actuator Systems TU Wien), Prof. Silvan Schmid (Institute of Sensor and Actuator Systems TU Wien)

2:15pm

Electrochemical analysis on the SERS structure using boehmite

» Mr. Shunya Saegusa (University of Hyogo), Dr. Masayuki Naya (Keio University), Mr. Takao Fukuoka (University of Hyogo), Dr. Yuichi Utsumi (University of Hyogo), Dr. Akinobu Yamaguchi (University of Hyogo)

1:30pm

Track3 - Micro/Nano Engineering for the Life Sciences
MOA9

1:30pm

Growth of Vertically Aligned MoS2 with Diffused SiOx Film for Ag-Migration-Based Resistive Switching Devices

» Ms. Jimin Lee (Chair of Electronic Devices, RWTH Aachen University), Ms. Sofia Cruces (Chair of Electronic Devices, RWTH Aachen University), Mr. Benny Ku (AMO GmbH, Advanced Microelectronic Center Aachen), Dr. Satender Kataria (Chair of Electronic Devices, RWTH Aachen University), Dr. Ke Ran (Central Facility for Electron Microscopy (GFE), RWTH Aachen University), Prof. Joachim Mayer (Central Facility for Electron Microscopy (GFE), RWTH Aachen University and Ruska-Centre for Microscopy and Spectroscopy with Electrons (ER-C 2), Forschungszentrum Jülich), Dr. Alwin Daus (Chair of Electronic Devices, RWTH Aachen University), Prof. Max C. Lemme (Chair of Electronic Devices, RWTH Aachen University and AMO GmbH, Advanced Microelectronic Center Aachen)

1:45pm

A method for measuring the d33 piezoelectric coefficient of soft thin films under weak loads

» Dr. Gaia de Marzo (Istituto Italiano di Tecnologia), Ms. Valentina Antonaci (Istituto Italiano di Tecnologia; Department of Innovation Engineering, Unisalento), Dr. Luca Fachechi (Istituto Italiano di Tecnologia), Dr. Vincenzo Mastronardi (Istituto Italiano di Tecnologia; Department of Innovation Engineering, Unisalento), Dr. Maria Teresa Todaro (Istituto Italiano di Tecnologia; Institute of Nanotechnology, CNR Lecce), Mr. Luigi Portaluri (Istituto Italiano di Tecnologia; Department of Innovation Engineering, Unisalento), Dr. Antonio Quattieri (Istituto Italiano di Tecnologia), Dr. Francesco Rizzi (Istituto Italiano di Tecnologia), Prof. Michele Scaraggi (Istituto Italiano di Tecnologia; Department of Innovation Engineering, Unisalento), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia; Department of Innovation Engineering, Unisalento)



Continued from Thursday, 28 September

2pm

Automatic markerless overlay with the NanoFrazor: towards batch-fabricated nanodevices

» [Dr. Jana Chaaban](#) (Heidelberg Instruments Nano AG), Dr. Antoaneta Damyanova (Heidelberg Instruments Nano AG), Mr. Jonas Vergés (Heidelberg Instruments Nano AG), Mr. Robin Erne (Heidelberg Instruments Nano AG), Dr. Emine Çağın (Heidelberg Instruments Nano AG)

2:15pm

An electrochemical sensor for *Listeria monocytogenes* detection based on 3D printing and loop mediated isothermal amplification

» [Dr. Santos Merino](#) (Tekniker), Mrs. Ane Rivas-Macho (Gaiker), Dr. Unai Eletxigerra (Tekniker), Dr. Ruth Diez (Tekniker), Mr. Antton Sanjuan (Universidad de Mondragón), Dr. M. Mounir Bou-Ali (Universidad de Mondragón), Dr. Leire Ruiz (Universidad del País Vasco), Dr. Javier Del Campo (Basque Center for Materials, Applications and Nanostructures), Dr. Jose Luis Vilas (Universidad del País Vasco), Dr. Felipe Goñi (Gaiker), Dr. Garbiñe Olabarria (Gaiker)

2:30pm

Break

2:45pm

Track1 - Novel Developments in Nano/Micro Fabrication Methods and Processes

MOA12

2:45pm

Avoiding Sidewall Redeposition when Dry Etching Nonvolatile Materials: A Reverse Liftoff Process

» [Dr. David Lishan](#) (Plasma-Therm, LLC), Mr. Vincent Genova (Cornell University (Ret.)), Dr. Samantha Norris (Axoft), Dr. Kyle Dorsey (Physical Sciences, Inc.)

3pm

Realization of fully independent complete field-effect devices grown all-in-situ with the innovative Shadow Wall Epitaxy technique

» [Dr. Yurii Kutovyi](#) (Forschungszentrum Jülich GmbH), Dr. Nils von den Driesch (Forschungszentrum Jülich GmbH), Ms. Christine Falter (Forschungszentrum Jülich GmbH), Mr. Felix Khamphasithivong (RWTH Aachen University), Mr. Denny Dütz (RWTH Aachen University), Dr. Lars R. Schreiber (RWTH Aachen University), Prof. Detlev Grützmacher (Forschungszentrum Jülich GmbH), Dr. Alexander Pawlis (Forschungszentrum Jülich GmbH)

3:15pm

FEBID field emitters for vacuum nanoelectronics

» [Prof. Teodor Gotszalk](#) (Wroclaw University of Science and Technology), Ms. Ewelina Gacka (Wroclaw University of Science and Technology), Mr. Bartosz Pruchnik (Wroclaw University of Science and Technology), Mr. Piotr Kunicki (Wroclaw University of Science and Technology), Mr. Krzysztof Kwoka (Department of Nanometrology, Wroclaw University of Science and Technology, Wroclaw, 50-370, Poland), Dr. Tomasz Piasecki (Wroclaw University of Science and Technology), Prof. Ivo W. Rangelow (Technische Universität Ilmenau), Dr. Andrzej Sierakowski (Institute of Microelectronics and Photonics), Dr. Isaac Stricklin (University of New Mexico), Dr. Tito Busani (University of New Mexico)

3:30pm

Diffuse Reflection of Neutrals as a Mechanism for Inverse Reactive Ion Etching Lag in Semiconductor Manufacturing

» [Dr. Patrick Vanraes](#) (University of Antwerp), Dr. Syam Parayil Venugopalan (ASML), Dr. Matthieu Besemer (ASML), Prof. Annemie Bogaerts (University of Antwerp)

2:45pm

Track3 - Micro/Nano Engineering for the Life Sciences

MOA6

2:45pm

Interfacing plastic antibodies on metal nanoparticles by plasmon induced photopolymerization – Application to sensors

» Mr. Amine Khitous (CNRS IS2M), Dr. Céline Molinaro (CNRS IS2M), Prof. Karsten Haupt (UTC), [Dr. Olivier Soppera](#) (CNRS IS2M)



Continued from Thursday, 28 September

- 3pm **Auto-fluorescence suppression of 3D scaffolds fabricated via two-photon polymerization for cell biology applications**
» Mr. Ahmed Sharaf (Delft University of technology), Dr. Angelo Accardo (Delft University of technology), Dr. Jean-Philippe Frimat (Leiden University Medical Center), Dr. Gert-Jan Kremers (Erasmus Optical Imaging Center)
- 3:15pm **Microparticle-based Microneedles for mRNA delivery**
» Mr. Alessandro Attanasio (Università degli Studi di Napoli "Federico II"), Dr. Raffaele Vecchione (Istituto Italiano di Tecnologia), Prof. Paolo Antonio Netti (Università degli Studi di Napoli "Federico II")
- 3:30pm **Hybrid metal-dielectric non-planar optical neural interfaces for multifunctional monitoring of brain functions**
» Ms. Maria Samuela Andriani (Istituto Italiano di Tecnologia), Dr. Teresa Jurado Parras (Istituto Cajal, CSIC, Madrid), Mrs. Cinzia Montinaro (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, 73010 Arnesano), Dr. Marco Bianco (Istituto Italiano di Tecnologia), Dr. Antonio Balena (Istituto Italiano di Tecnologia), Dr. Elena Cid (Istituto Cajal, CSIC, Madrid), Dr. Barbara Spagnolo (Istituto Italiano di Tecnologia), Dr. Marco Pisanello (OptogeniX s.r.l.), Dr. Filippo Pisano (Istituto Italiano di Tecnologia), Dr. Liset M. de la Prida (Istituto Cajal, CSIC, Madrid), Prof. Massimo De Vittorio (Istituto Italiano di Tecnologia), Dr. Ferruccio Pisanello (Istituto Italiano di Tecnologia)
- 2:45pm **Track3 - Micro/Nano Engineering for the Life Sciences**
MOA9
- 2:45pm **Pyrolytic carbon microelectrodes for electrophysiological studies with retinal tissue**
» Mr. pratik Kusumanchi (DTU Nanolab), Prof. Stephan Sylvest Keller (Technical University of Denmark), Dr. Rasmus Schmidt Davidsen (Aarhus university), Dr. Jesper Guldsmid Madsen (Aarhus university), Prof. Toke Bek (Aarhus hospital university)

- 3pm **The 3D FlowPrint platform, a microfluidic-assisted photopolymerization method for high-resolution multimaterial hydrogel printing**
» Mr. victor fournie (Fluigent), Dr. Bastien Venzac (LAAS-CNRS), Dr. Emmanuelle Trevisiol (Toulouse Biotechnology Institute), Dr. Julie Foncy (LAAS-CNRS), Dr. Julien Roul (LAAS-CNRS), Ms. Sandrine Assie-Souleille (LAAS-CNRS), Ms. Melanie Escudero (Restore), Dr. Pierre Joseph (LAAS-CNRS), Mr. Arnaud Reitz (Fluigent), Dr. Laurent Malaquin (LAAS CNRS)
- 3:15pm **Integration of mechanical cues and electrical sensing in Nervous system-on-Chip**
» Mr. Rahman Sabahi-Kaviani (Eindhoven University of Technology), Ms. Marina Shiryayeva (Eindhoven University of Technology), Dr. Suzanne B.P.E. Timmermans (Eindhoven University of Technology), Mrs. Gulden Akcay (Eindhoven University of Technology), Mr. Samuel Rantataro (Aalto University), Prof. Tomi Laurila (Aalto University), Prof. Sami Franssila (Aalto University), Prof. Regina Lutttge (Eindhoven University of Technology)
- 3:30pm **Novel μ fluidic Brain-on-Chip instructive penvironments**
» Mrs. Gulden Akcay (Eindhoven University of Technology), Mr. Jeroen van Venrooij (Eindhoven University of Technology), Prof. Regina Lutttge (Eindhoven University of Technology)
- 3:45pm **Break**
- 3:55pm **Announcements and Closing Remarks**
Plenary Hall