

Italy-Sweden Bilateral Workshop\*

## Smart Sensor Technologies and Applications Innovation, strategies, and solutions for a sustainable future

Linköping, 1-2 October 2024

### Program Day 1 - October 1, 2024

*Place: Meeting Room Kronan, Studenthuset, Linköping University, Campus Valla*

11:30 – 12:45 Registration and Lunch (*Studenthuset*)

12:45 – 13:05 Welcome & Opening

**Jan-Ingvar Jönsson**, Vice-Chancellor, Linköping University

**Augusto Marcelli**, Science Attaché, Embassy of Italy in Stockholm

13:05 – 13:30 **Edwin Jager**, Linköping University

*Electroactive polymer actuators from wearable haptic devices to micromechanical stimulation of cells*

13:30 – 13:55 **Costanza Toninelli**, CNR-INO Italian National Institute of Optics, Florence

*Single molecules detection for enhanced sensing and quantum technologies*

13:55 – 14:15 Coffee break

14:15 – 14:40 **Jens Eriksson**, Linköping University and VOC Diagnostics AB

*Yes, we will! Make an impact through DeepTech transformation of cancer diagnostics*

14:40 – 15:05 **Antonio Ciarlo**, Gothenburg University

*miniTweezers2.0: smart optical tweezers for health and life sciences*

15:05 – 15:25 **Niclas Roxhed**, KTH Royal Institute of Technology, Stockholm

*Patient-centric sampling is the enabler for future diagnostics*

Closing 1st day

15:45 *LiU Campusbussen from Universitetet to CMIV at Campus US (US Södra Entrén) - Transfer by bus*

16:20 – 17:50 Visit at the **Center for Medical Image Science and Visualization (CMIV)**

17:50 – 18:10 *Walking to the City Hall (1.5 km, ~20 min)*

18:10 – 19:30 **Reception at the City Hall**

20:00 – *Dinner*

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### Program Day 2 - October 2, 2024

*Place: Meeting Room Kronan, Studenthuset, Linköping University, Campus Valla*

9:00 – 9:15 Welcome & Opening

**H.E. Michele Pala**, Ambassador of Italy to Sweden

9:15 – 9:40 **Lorenza Ferrario**, FBK Fondazione Bruno Kessler, Trento

*Acting as an Open Nanofabrication Facility, the FBK experience*

9:40 – 10:05 **Roberto Bresin**, KTH Royal Institute of Technology, Stockholm

*Sound and music as a source of innovation*

10:05 – 10:30 **Massimo Basile**, Wsense srl, Rome

*Digitization of subsea infrastructures using the “Internet of Underwater Things”*

10:30 – 10:55 **Davide Esposito**, Italian Institute of Technology, Genoa

*Devices for inclusion: science and technology*

10:55 – 11:15 Coffee break

11:15 – 11:40 **Barbara Fabbri**, University of Ferrara

*Metal-oxide gas sensors: current advances in science and technology to meet challenges*

11:40 – 12:05 **Qin Wang**, RISE Research Institutes of Sweden

*Graphene and graphene-based hybrids for bio/chemical and industrial sensing applications*

12:05 – 12:30 **Maria Rosaria Plutino**, CNR Italian National Research Council, Messina

*Smart and innovative multifunctional materials: from design and synthesis to sustainable applications*

12:30 – 13:45 Lunch (*Universitetsklubben*)

13:45 – 14:05 **Domenico Caputo**, Sapienza University, Rome

*Thin and thick film technologies for smart and eco-friendly sensors and systems*

14:05 – 14:30 **Yang Liu**, Linköping University

*Sustainable smart manufacturing: Current reality and future prospects*

14:30 – 14:55 **Olof Kordina**, Xtal-works, Vikingstad

*Building bridges boosts businesses*

14:55 – 15:15 Coffee break

15:15 – 17:00 Roundtable

***Sensoristics: a world of technologies and applications for a sustainable future***

17:00 Final and closing remarks

*\*The registration at the event is mandatory, seats are limited: <https://liu.se/en/event/italy-sweden-bilateral-workshop-on-smart-sensor-technologies-and-applications>*