

# Advanced Technology Workshop for Microelectronic Sensor Packaging

May 14<sup>th</sup>, 2024

Polytechnic University of Milan - Bovisa

Consiglio Hall, Building BL25 - Via Lambruschini, 4



## Programme

9.00 **Welcome, Introduction and Pack4EU Presentation**

*Luigi Calligarich, IMAPS Italy*

9.10 **Sensors for a sustainable world**

*Anton Hofmeister, STMicroelectronics - Italy*

9.35 **Fiber network as a sensor**

*Pierpaolo Boffi, Polytechnic University of Milan - Italy*

10.00 **An innovative contactless technology for high resolution, high speed, conductive & di-electric materials deposition**

*Stéphane Etienne, Io-TECH - United Kingdom*

10.25 **Powering the future of IoT: innovative strategies for energy-autonomous wireless sensor networks**

*Roberto La Rosa, STMicroelectronics - Italy*

10.50 Coffee break

11.20 **Mechanical properties of all-glass packages for sensors**

*Antti Peltonen, Schott - Finland*

11.45 **Integration of functional materials for new MEMS devices and applications**

*Federico Maspero, Polytechnic University of Milan - Italy*

12.10 **Solutions for absorbing gases inside electronic and optoelectronic hermetic packaging**

*Luca Mauri, Saes Getters - Italy*

12.35 **Laser assisted bonding as recommended soldering technology for next generation sensor packaging**

*Ricardo Geelhaar, Matthias Fettke Pactech - Germany*

13.00 Lunch

14.15 **Let the plants do the talking: smart agriculture by the messages received from plants and soil**

*Danilo Demarchi, Polytechnic University of Turin - Italy*

14.40 **Digitally greenery with battery-free intelligent internet of thing - recipes and methodologies**

*Davide Brunelli, University of Trento - Italy*

15.05 **A microelectronic package as electrode for vAFE featured MEMS sensors**

*Enrico Alessi, Fabio Passaniti, STMicroelectronics - Italy*

15.30 Coffee break

16.00 **Ultrasound sensor design for thermoacoustic imaging in biomedical applications, from hadron therapy monitoring to melanoma detection**

*Elia Arturo Vallicelli, Marcello De Matteis University of Milan - Bicocca, INFN Milan - Bicocca - Italy*

16.25 **A low-cost optical-chemical sensor for perfluorooctanoic acid detection in ng/L concentration range for drinking water and food applications**

*F. Arcadio, R. Pitruzzella, G. D'Agostino, R. Rovida, C. Perri, A. Chiodi, S. Moretti, G. Porto, G. Brambilla, L. Zeni, N. Cennamo University of Campania, Moresense, Molecular Horizon, ISS - Italy*

16.50 Closing remarks



## Information

The conference will be held in English language in presence, for up to 100 people.

Access is free and subject to availability, mandatory registration at the following link:

<https://www.imaps-italy.it/in-primo-piano/14-may-2024-microelectronic-sensor-packaging.html>

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