



Italian-Israeli Workshop on

“Materials and Technologies for Industrial Innovation”

October 16-17, 2018 - Scuola Superiore di Catania, Via Valdisavoia 9, Catania, IT

Chairman: **Francesco Priolo (Catania University)**
President of Scuola Superiore di Catania

PROGRAM

October 16th, 2018 - Aula Magna Scuola Superiore di Catania

10:45 Welcome address
(IT-IL authorities)

11:15 **Danny Shechtman**, Nobel Laureate, Technion – Israel Institute of Technology
Development of New Magnesium Alloys by Innovative Technologies

12:15 **Diederik Wiersma**, President of INRIM National Metrology Institute
Inspiration from nature: Photonic arms, legs, and skin

12:40 **David Cahen**, Weizmann Institute of Science
The promise of Halide Perovskite Solar Cells

13:10 **Lunch break**

14:30 **Luisa Torsi**, Bari University - past President, European Materials Research Society
Printable bio-electronics: the reliable and scalable way for single molecule biosensing

14:55 **Yosi Shacham**, Tel Aviv University
Interconnects for micro and nano systems technologies

15:25 **Ernesto Ciorra**, Chief Innovability Officer, Enel
Open innovability @Enel: how it works and real success stories

15:50 **Ervin Tal-Gutelmacher**, VP R&D @ PO-CELLTECH (former Elbit –Energy)
Recent advancements on alkaline membrane fuel cell (AMFC) technology

16:20 **Mario Aleo**, STM - Catania site
Leveraging the start up nation: pragmatism and innovation

16:45 **Coffee break**

17:15 **Round Table - Advanced materials: Barriers and opportunities in academia – industry collaboration**

ADDRESS SPEECHES and COORDINATION:

Haim Rousso, Former CEO of EL-OP, Member of the council of the Israeli Innovation Authority

Ruggero Aricò, VP Confindustria Assafrica & Mediterraneo

19:00 **Conclusions**

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- 08:30 Corrado Spinella**, Director, National Research Council
Matter and devices: beyond silicon, what next?
- 08:55 Ehud Galun**, Materials and engineering Tel-Aviv University. Former head of the Materials department @ EL-OP
Frontier Materials and Processes in Additive Manufacturing
- 09:25 Sergio Brovelli**, CTO GlasstoPower
Glass to Power: Building integrated solar nanotechnologies for energy sustainable urban architecture
- 09:50 Doron Auerbach**, Bar Ilan University
Frontiers in materials science for effective electro-mobility
- 10:20 Leonida Miglio**, University of Milano-Bicocca, Chairman of PoliS-Lombardia
From laboratory proof of concept to one industrial prototype: how to close the Italian gap
- 10:45 Coffee break**
- 11:15 Moshe Eizenberg**, Technion – Israel Institute of Technology
The Role of Interfaces and Defects in Controlling the Electrical Properties of Metal/High-K Stacks on Various Semiconductors
- 11:45 Aldo Di Carlo**, Roma Tor Vergata University
Perovskite solar cells: from lab scale to large area modules
- 12:10 Louisa Meshi**, Ben Gurion University
Solution of metallurgical riddles by electron crystallography
- 12:40 Roman Krahn**, Istituto Italiano di Tecnologia
Designed nanoscale materials for photonic applications
- 13:05 Lunch break**
- 14:30 Reshef Tenne**, Weizmann Institute of Science
Inorganic nanotubes and fullerene-like nanoparticles at the crossroad between materials science and nanotechnology and their applications
- 15:00 Giacomo Cuttone**, Director LNS, National Institute for Nuclear Physics
Laboratori Nazionali del Sud: An European research infrastructure in nuclear, astro particle and applied physics
- 15:25 Yair Ein Eli**, Technion – Israel Institute of Technology
Advanced Materials for High Energy Density Li-ion Batteries
- 15:55 Coffee break**
- 16:25 Round Table - Advanced materials: Opportunities for collaborations between Italy and Israel**
ADDRESS SPEECHES and COORDINATION
Danny Shechtman, Nobel Laureate, Technion – Israel Institute of Technology
Francesco Priolo, Catania University
- 18:00 Summary and Conclusions**
Alessandro Cecchi Paone

SPONSORS

Organizing Committee:

Francesco Priolo, Catania University
Antonio Terrasi, Catania University
Salvo Mirabella, Catania University



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