



Italian-Israeli Workshop on

“Materials and Technologies for Industrial Innovation”

October 16th-17th, 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

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| 10:45 | Welcome address
(IT-IL authorities) |
| 11:15 | Dan Vilenski , entrepreneur, former CEO Applied Material
<i>Government - Academy - Industry cooperation, the Israeli National Nanotechnology Initiative, an innovative model</i> |
| 12:00 | Diederik Wiersma , President of INRIM National Metrology Institute
<i>Inspiration from nature: Photonic arms, legs, and skin</i> |
| 12:25 | David Cahen , Weizmann Institute of Science
<i>The promise of Halide Perovskite Solar Cells</i> |
| 12:55 | Ernesto Ciorra , Chief Innovability Officer, Enel
<i>Open innovability @Enel: how it works and real success stories</i> |
| 13:20 | Lunch break |
| 14:30 | Luisa Torsi , Bari University - past President, European Materials Research Society
<i>Printable bio-electronics: the reliable and scalable way for single molecule biosensing</i> |
| 14:55 | Yosi Shacham , Tel Aviv University
<i>Interconnects for micro and nano systems technologies</i> |
| 15:25 | Aldo Di Carlo , Roma Tor Vergata University
<i>Perovskite solar cells: from lab scale to large area modules</i> |
| 15:50 | Ervin Tal-Gutmacher , VP R&D @ PO-CELLTECH (former Elbit -Energy)
<i>Recent advancements on alkaline membrane fuel cell (AMFC) technology</i> |
| 16:20 | Mario Aleo , STM - Catania site
<i>Leveraging the start up nation: pragmatism and innovation</i> |
| 16:45 | Coffee break |
| 17:15 | Round Table - Advanced materials: Barriers and opportunities in academia – industry collaboration
ADDRESS SPEECHES and COORDINATION:
Haim Rouso , 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 **Assaf Anderson**, MaterialsZone
Materials Data in the Blockchain Era

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 **Coffee break**

10:50 **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

11:20 **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

11:45 **Louisa Meshi**, Ben Gurion University
Solution of metallurgical riddles by electron crystallography

12:15 **Roman Krahne**, Istituto Italiano di Tecnologia
Designed nanoscale materials for photonic applications

12:40 *The Israeli way to communicate innovation as seen by an Italian TV anchorman and university teacher* - **Alessandro Cecchi Paone**

13:00 **Lunch break**

14:20 **Reshef Tenne**, Weizmann Institute of Science
Inorganic nanotubes and fullerene-like nanoparticles at the crossroad between materials science and nanotechnology and their applications

14:50 **Giacomo Cuttone**, Director LNS, National Institute for Nuclear Physics
Laboratori Nazionali del Sud: An European research infrastructure in nuclear, astro particle and applied physics

15:15 **Yair Ein Eli**, Technion – Israel Institute of Technology
Advanced Materials for High Energy Density Li-ion Batteries

15:45 **Coffee break**

16:20 **Round Table** - *Advanced materials: Opportunities for collaborations between Italy and Israel*
ADDRESS SPEECHES and COORDINATION
Dan Vilenski, entrepreneur, former CEO Applied Material
Francesco Priolo, Catania University

17:50 **Summary and Conclusions**

SPONSORS

Organizing Committee:

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



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DISTRETTO TECNOLOGICO SICILIA MICRO E NANO SISTEMI



Italian-Israeli Workshop on
“Materials and Technologies for Industrial Innovation”

Visits to industrial sites
(reserved to Workshop’s Speakers)

PROGRAM

October 15th, 2018

17:00 Visit to the Catania site of STMicroelectronics, Zona Industriale Catania
https://www.st.com/content/st_com/en/about/careers/st-locations/emea/italy/catania.html

18:00 Transfer to the hotel

October 16th, 2018

08:30 Visit to the Innovation Hub & Lab of ENEL, Contrada Passo Martino, Catania
<https://www.enelgreenpower.com/stories/a/2018/07/innovation-renewables-hub-lab-catania>

10:00 Transfer to Scuola Superiore Catania