Finanziato dall'Unione europea
NextGenerationEU

Ministero dell'Università e della Ricerca

Italiadomani
PIANO NAZIONALE DI RIPRESA E RESILIENZA

iENTRANCE

iENTRANCE ADVANCED SCHOOL

DAY 1

Tuesday, 20 February, 2024 |

OPENING- 9:15AM - 9:30AM

WELCOME ADDRESSES BY
CARLO MASSIMO CASCIOLA- *Dean of Faculty of Civil and Industrial Engineering*
MARIA SABRINA SARTO- *Pro-rector for Research*
SAPIENZA UNIVERSITA' DI ROMA

9:30AM - 10:15AM
Polymeric membranes for PEM and fuel cells: what are the differences and what are the opportunities?
SERGIO BOCCHINI-POLITECNICO DI TORINO

10:15AM - 11:00AM
Tackling Electrochemical Reaction Complexity: Insights from ab initio simulations.
FRANCESCA RISPLENDI-POLITECNICO DI TORINO

BREAK

11:30AM - 12:15AM
Nanostructured porous materials for adsorption of pollutants.
RACHELE CASTALDO-CNR IPCB

12:15AM - 13:00AM
Halide Perovskites for Optoelectronic Applications: Opportunities and challenges.
FABIO MATTEOCCI-UNIVERSITA' DEGLI STUDI DI ROMA TOR VERGATA

LUNCH

2:30PM - 3:15PM
Liquid Phase Transmission Electron Microscopy: advanced in situ and operando techniques for energy.
MARCO FONTANA-POLITECNICO DI TORINO| IIT

3:15PM - 4:00PM
Development of functional nanoparticles for environmental and energy application.
LUCIA CURRI-UNIVERSITA' DEGLI STUDI DI BARI ALDO MORO

BREAK

4:30PM - 5:15PM
TERS (Tip-enhanced Raman Spectroscopy), theory, technology, and examples.
RICCARDO TAGLIAPIETRA/DANIELE ROCCO-SAPIENZA UNIVERSITA' DI ROMA

5:15PM - 6:00PM
XPS: a powerful surface analysis tool for the investigations of materials for energy storage and catalysis applications.
MICAELA CASTELLINO-POLITECNICO DI TORINO

CLOSING REMARKS- 6:00PM-6:15 PM

PROGRAM

Consiglio Nazionale delle Ricerche

Politecnico di Torino

INRiM ISTITUTO NAZIONALE DI RICERCA METROLOGICA

SAPIENZA Università di Roma

ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA

ROMA TRE UNIVERSITÀ DEGLI STUDI

iENTRANCE ADVANCED SCHOOL

Wednesday,21 February, 2024 |

OPENING- 9:15AM - 9:30AM

9:30AM - 10:15AM
Synthesis of energy storage nanomaterials starting from secondary raw materials: Li-ion batteries recycling.
PIER GIORGIO SCHIAVI-SAPIENZA UNIVERSITA' DI ROMA

10:15AM - 11:00AM
Chemical and physical storage of hydrogen.
MATTIA BARTOLI-IIT

BREAK

11:30AM - 12:15AM
Thermochemical processes and thermal energy storage driven by concentrated solar energy.
MAURIZIO TROIANO-CNR STEMS

12:15AM - 13:00AM
Micro and nanotechnology-based devices: low-concentration methane trapping and plasmonic sensing for the energy transition.
ELEONORA CARA-INRIM

LUNCH

2:30PM - 3:15PM
Ab-initio electronic properties of materials.
ALESSANDRO PECCHIA-CNR ISMN

3:15PM - 4:00PM
Characterization of materials for energy storage devices: supercapacitors, batteries and new hybrids. An electrochemical insight.
MARA SERRAPEDE-POLITECNICO DI TORINO

BREAK

4:30PM - 5:15PM
Optical properties of multilayer systems by computer modeling.
EMANUELE CENTURIONI-CNR IMM

5:15PM - 6:00PM
Machine learning for materials modeling.
ALESSIO GAGLIARDI-TUM

CLOSING REMARKS- 6:00PM-6:15 PM

PROGRAM

DAY 3

iENTRANCE ADVANCED SCHOOL

PROGRAM

Thursday, 22 February, 2024 |

OPENING- 9:30AM – 9:40AM

SESSION I - Achieving Fair Data by harmonised terminologies and ontologies

9:40AM – 11:00AM
Opening - iEntrance - FAIR within iEntrance
FRANCESCA DE CHIARA- CNR IMM

10:00AM – 11:00AM
I Lecture / Practical Session| Q&A
CNR ISTC

11:00AM – 12:00AM
II Lecture / Practical Session| Q&A
ROSSELLA AVERSA- STEINBUCH CENTRE FOR COMPUTING (SCC)

12:00AM – 12:45AM
III Lecture / Practical Session
LORENZA FERRARIO -FBK

12:45AM – 13:00AM
Q&A + Wrap-Up

IENTRANCE COORDINATORS:

VITTORIO MORANDI- Project Coordinator and PI of CNR
MARCO ROSSI- PI of SAPIENZA Università di Roma
MARCO SEBASTIANI- PI of Università ROMATRE
LORIS GIORGINI- PI of ALMA MATER Università di Bologna
FABRIZIO CANDIDO PIRRI- PI of Politecnico di Torino
PIETRO ASINARI- PI of INRiM

LUNCH

SESSION II - How to put FAIR into Practice - Datathon
2:30PM –3:30PM
Fablims Demo Session
PAOLO CONCI

3:30PM – 4:30PM
Bring your own laptop! Practical session

SESSION III - Tech Transfer Module
4:00PM–5:00PM
Management Intelellectual Property in Technology Transfer
ALFREDO PICANO-CNR IMM

5:00PM–5:30PM
Business Model Canvas: a versatile tool to design innovation
ALFREDO PICANO-CNR IMM

CLOSING REMARKS- 5:30PM–6:00PM