



ADVANCED MATERIALS CONFERENCE

ADVANCED MATERIALS CONFERENCE – June 16th

Online Event

To innovate in the future, the journey starts here

Advanced materials are a key component of the 4th technological and industrial revolution, as they are the basis for the development of digital, bio and nano technologies. These materials represent major advances over conventional materials, in particular superior properties and performance. In particular, they allow supply chain efficiency, distributed and decentralized manufacturing, reduced needs for storage, customization and personalization of goods, increasing the resolution of the complexity of shape and functions, as well as exploiting multifunctional properties for multi-field applications. As a result, they address important societal ‘grand challenges’, such as mobility, healthcare, energy, and climate change. In this context, advanced materials are vital for the future comfort and prosperity, as they will enhance the competitiveness of all. In this respect, we expect that policy makers and industry stakeholders to engage in this effort to foster a “quantum” leap in the development of new technologies and added-value products, able to deploy the next generation of high performing, cost-effective and environmentally sustainable products and technical solutions in the areas of energy, health, transportation and information and communication technologies.

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AGENDA

09:30 (CEST) – Welcome Address, Elvira Fortunato

Vice-Rector of NOVA SCHOOL OF SCIENCE AND TECHNOLOGY | FCT NOVA

Session 1: Impact of Science in Education and Technology Transformations

09:40 Manuel Heitor, Portuguese Minister of Science, Technology and Higher Education

09:50 Mariya Gabriel, EU Commissioner for Innovation, Research, Culture, Education and Youth

10:00 Jean-Pierre Bourguignon, President ad interim, European Research Council

10:10 Jan HRUŠÁK, ESFRI Chair, European Infrastructures for Science and Technology Advances

10:20 Helena Pereira, President of FCT- Fundação para a Ciência e a Tecnologia

10:30 Break

Session 2: Advanced Materials as Accelerators of the Digital Economy

Moderator: Lars Montelius, INL Director

10:45 Gian-Marco Rignanese, Director of Research – FNRS, UC Louvain

“Machine Learning in Materials Science & Engineering”

11:00 Saskia Schimmel, Nagoya University

“Artificial Intelligence in the Materials Research”

11:15 Alina Adriana Minea, Technical University "Gh. Asachi"

“New Heat Transfer Fluids for Saving Energy in Heat Exchange Applications”

11:30 Ehrenfried Zschech, Department Head, Fraunhofer Institute for Ceramic Technologies and Systems IKTS

“High-resolution 3D imaging of materials and integrated circuits – Enabler for disruptive innovations”

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11:45 Beatrice Fraboni, Director of the Collegio Superiore of the University of Bologna

“Organo-Metallic Materials for Detection Applications”

12:00 Pedro Bernardo, on behalf of Carlos Ribas - CEO Bosch Portugal

“Embedded Electronics and Smart Material”

12:15 Karl Leo, Head of the Institute of Applied Physics, TU-Dresden

“Flexible Organic Electronics”

12:30 -14:00 LUNCH BREAK

AFTERNOON SESSION

14:00 (CEST) – Welcome Address, Rogério Colaço

President of Instituto Superior Técnico, University of Lisbon

Session 3: Materials as Activators and Promoters of Prosperity and Welfare

14:10 Joana Mendonça, President of ANI - Agência Nacional de Inovação, SA

"Knowledge Transfer and Collaboration between Companies and Universities"

14:25 Jurgen Tiedje, Head of Unit Industrial Transformation, DG RTD, European Commission

“Materials, the Activator of our Prosperity”

14:40 Helène Chraye, Head of Unit Clean Energy Transition, DG RTD, European Commission

"Materials to Support the Clean and Sustainable Energy Transition"

14:55 Peter Wellmann, President of European Materials Research Society

“Advanced Functional Materials for Electronics: Beyond Silicon - The eminent role of the wide bandgap materials SiC, GaN and Diamond”

15:05 Break

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Session 4: Advanced Materials Towards a Sustainable Path (Round Table Discussion)

Moderator: Fátima Montemor, Instituto Superior Técnico, University of Lisbon

15:25 Kristina Edström, Uppsala University, Coordinator of BATTERY 2030+

"Accelerating the Hunt for Energy Storage Materials"

15:40 Marko Topič, University of Ljubljana, Chairman of the European Technology & Innovation

"Platform Photovoltaics, Advanced Materials for Photovoltaics Applications"

15:55 Deborah Jones, Associate Director of the Institute Charles Gerhardt Montpellier

"To be confirmed"

16:10 João Calado, Senior Consultant, Technology Development at Bondalti

"The Chemical Industry, Materials and Sustainability"

16:25 Constantine Galiotis, University of Patras

"Functional Novel Composites"

16:40 Fouzia Hannour, Qatar Free Zones Authority, Director Strategy, Sustainability & Industrials

"Investment trends in advanced materials for the global industry sustainability demands"

16:55 Round Table Discussion

17:15 Wrap up Renzo Tomellini, Head of the Technical Secretariat of the Italian Minister of Ecological Transition

"The Role of Materials in Resilience and Recovery via the Circular Economy and the Raw Materials Supply"

17:30 (CET) - Closing Session

**Elvira Fortunato | Rogério Colaço | Fátima Montemor | Paulo Ferreira
Rodrigo Martins | João Paulo Borges | Pedro Amaral**

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