

From the Bench to the World

09:00

REGISTRATION 15 min

Registration & Welcome Coffee

Delegate accreditation · Badge collection

09:30

OPENING 15 min

Opening Ceremony

Welcome addresses by Symposium Chair and Institutional Representatives

09:30

SESSION 1 · 09:30–11:15

Building the Laboratories of the Future

Chair: Jesús Palma IMDEA Energía

09:45

TALK 1 15 min

KEYNOTE

Victor A. de la Peña O'Shea

IMDEA Energía

The BRAIN Lab and the Rise of the Future Scientist: Will Human–AI Synergy Redefine Nobel Prize Science?

10:00

TALK 2 15 min

Jesús Sanz

Moeve

Title TBC

10:15

TALK 3 15 min

Jose Miguel Seoane

Repsol

Self-driving-Labs: From Concept to Industrial Reality

10:30

TALK 4 15 min

Juan Antonio de Fuenmayor Varela

Fujitsu

My friend is a Terminator

10:45

TALK 5 15 min

Antonio Alonso

Acciona

Labs on the Move: Robotic Automation in Controlled Construction Environments

11:00

TALK 6 ⌚ 15 min

Mónica de Mier

Nextmol

The Computational Laboratory for the Next Generation Sustainable Chemicals and Digital Transition

11:15

COFFEE BREAK ⌚ 30 min

Coffee Break

11:45

ROUNDTABLE ⌚ 15 min

From the Lab to Market

All speakers · Chair: Victor A. de la Peña O'Shea — IMDEA Energía

13:00

LUNCH ⌚ 60 min

Lunch Break

14:00

SESSION 2 · 14:00–15:15

Open Science, Ethics & Governance

Chair: Cristina Álvarez — IMDEA Energía

14:00

TALK 7 ⌚ 15 min

Esteban González

UPM

Can Laboratories Talk to Each Other? FAIR Principles and Data Spaces

14:15

TALK 8 ⌚ 15 min

Ana Herrera

PONSIP

Open Science sin perder el control: cómo proteger los resultados y datos en proyectos colaborativos

14:30

TALK 9 ⌚ 15 min

Patricio Reyes

BSC

Open Science and Opportunities for Collaboration with Supercomputing Centers

14:45

TALK 10 ⌚ 15 min

Jesús Marco

IFCA-CSIC

Exploring a new world?

15:00

ROUNDTABLE ⌚ 15 min

Science Without Secrets?

All speakers · Chair: Cristina Álvarez — IMDEA Energía

16:00 **COFFEE BREAK** ⌚ 30 min

Coffee Break

16:30 **SESSION 3 · 16:30–17:30**

Intelligence for Self-Driving Labs

Chair: Carlos Balaguer — UC3M

16:30 **TALK 11** ⌚ 15 min

Carlos Balaguer

UC3M

Global Trends in Intelligent Robotics

16:45 **TALK 12** ⌚ 15 min

Hector Montes

UPM

Towards Intelligent Laboratories: Integrating Collaborative Robotic Arms in Academic and Research Environments

17:00 **TALK 13** ⌚ 15 min

Ángela Ribeiro

CAR-CSIC

Autonomous Mobile Robotics for Intelligent Laboratory Workflows

17:15 **TALK 14** ⌚ 15 min

Nourdine Aliane

Universidad Europea

Title TBC

17:30 **ROUNDTABLE** ⌚ 15 min

From the Lab to Market

All speakers · Chair: Carlos Balaguer — UC3M

18:30 **END OF DAY ONE**

End of Day One Formal Programme

Europe, Scale-Up, and the Future

09:00

SESSION 4 · 09:00–11:20

Building the Lab of the Future (Spain & Europe)

Chair: Jesús Rojo – Fundación Madri+d

09:30

TALK 16 15 min

Representative TBC

Comunidad de Madrid

Title TBC

09:45

TALK 17 15 min

Marian Ferre

AEI

Title TBC

10:00

TALK 18 15 min

Luis Maeso

CDTI

Title TBC

10:15

TALK 19 15 min

Laura Rodríguez

Fundación Madri+d

Title TBC

10:30

TALK 20 15 min

Eduardo Troche

28 Digital

Supporting EU digital ecosystems from lab to scale up

10:45

ROUNDTABLE 15 min

Europe's Lab of the Future

All speakers; Chair: Jesús Rojo – Fundación Madri+d

11:30

COFFEE BREAK 20 min

Coffee Break

11:40

SESSION 5 · 11:40–14:00

Emerging Directions in AI-Driven Labs

Chair: Victor A. de la Peña O'Shea – IMDEA Energía

11:45

TALK 21 15 min

Dr. Yuhui Hou

ETH Zürich

Title TBC

12:00

TALK 22 15 min

Dr. Julio Lloret

ICIQ

Towards Closed-Loop Automatic Catalysts Development

12:15

TALK 23 15 min

Dr. Sergio Pablo García

IMM - CSIC

Workflow foundations for autonomous laboratories

12:30

TALK 24 15 min

Dr. Jin Hyun Chang

DTU

Accelerating Sustainable Electrolyte Design: A Self-Driving Approach to High-Entropy Formulations

12:45

TALK 25 15 min

Dr. Iñaki Martínez Sarriegui

TECNALIA

Next-Generation Digital Labs: Data, AI & Visual Technologies as Key Enablers

13:00

TALK 26 15 min

Dr. Fernando Fernández

UC3M

Artificial Intelligence for Human-Robot Interaction

13:15

TALK 27 15 min

Dr. Pelayo García de Arquer

ICFO

Automated protocol optimization towards reliable active and stable catalysts for water splitting

13:30

TALK 28 15 min

Dr. Maciej Haranczyk

IMDEA Materiales

Self-Driving Laboratories for Polymers and Polymer Nanocomposites at IMDEA Materiales

13:45

TALK 29 15 min

Dr. Joaquín Oton

ALBA Synchrotron

14:00

TALK 30 ⌚ 15 min

Dr. Ruben San Segundo

UPM

IPTC: Enabling Autonomous Scientific Infrastructures

14:15

TALK 31 ⌚ 15 min

Dr. Kaushik Mallik

IMDEA Software

Keeping AI Safe: A Formal Methods Perspective

14:30

TALK 32 ⌚ 15 min

Dr. Jorge Bravo Abad

UAM

From Productivity Tool to Discovery Infrastructure: The Next Phase of AI for Science

14:45

CLOSE

Close Remarks & End of Symposium

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