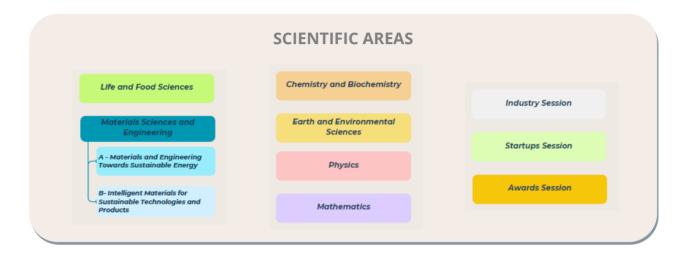




PROGRAMME SCHEDULE



October 29th, Tuesday

Room: Grand Hall - ACL

08:30 - 09:00 Registration

Opening Session

09:00 – 09:30Armando Pombeiro | Chairman
José Luís Cardoso | ACL President

Rodrigo Martins | EurASc President

L1- Helena Nader

Universidade Federal de São Paulo (Unifesp), Brazil

09:30 – 09:50 Title: Navigating the complexities: challenges facing health and social welfare in the

modern world

L2- Daniel Scherman

09:50 – 10:10 Faculty of Pharmacy, University of Paris, France *Title: Biological sciences for sustainability*

L3- Alexander Mathys

Institute of Food, Nutrition, and Health; ETH Zürich, Switzerland

10:10 – 10:30

Title: Environmental, Social, and Economic Sustainability Asses

Title: Environmental, Social, and Economic Sustainability Assessment of Food Systems: from understanding to actions









10:30 - 11:00

Coffee Break

Room: Grand Hall - ACL

Room: Session Room - ACL

L4- Nicholas Long

11:00 - 11:20

Imperial College, London, UK

Title: Organometallic-enhanced
nanoelectronics and solar cells

L13- Chao-Jun Li

McGill University, Montreal, Canada Title: Exploration of reactivities towards future Chemical Sustainability

L5- Bing-Joe Hwang

11:20 - 11:40

National Taiwan University of Science and Technology (Taiwan Tech) Title: Value-added Electrolysis for Sustainable Hydrogen Production

L14- Peter Roesky

Karlsruhe Institute of Technology, Germany *Title: The Rare Earths*

L6- Zhihua Wang

11:40 - 12:00

Zhejiang University, State Key Laboratory of Clean Energy Utilization, China *Title: Combustion of H*₂/ NH_3 *Zero Carbon*

Fuels for the Sustainable Energy Solution

L15- Annie Powell

Karlsruhe Institute of Technology, Germany

Title: The Dark Side of Matter from a Magnetic and Electronic Perspective: Molecules Playing Spin State Hide and Seek

L7- Jihong Wang

12:00 - 12:20

School of Engineering, University of Warwick, Coventry UK Title: The Need of Long Duration Energy Storage for Decarbonising UK Power Grid

and Analysis of the Potential of
Compressed Air Energy Storage

L16- Plinio Innocenzi

Laboratory of Materials Science and Nanotechnology, University of Sassari, Italy

Title: The strange story of room temperature phosphorescence of boric acid

L8- Ehrenfried Zschech

12:20 - 12:40

Brandenburg University of Technology Cottbus-Senftenberg, Germany Title: Mechanically robust microchips for reliable and sustainable high-tech products – What can we learn from nature?

L17- João Rocha

CICECO, Universidade de Aveiro, Portugal

Title: Nanoporous Materials for a Sustainable World: Case Studies and Applications

L9- Xinliang Feng

12:40 - 13:00

Max Planck Institute of Microstructure Physics, Technische Universität Dresden, Germany

Title: Building a Sustainable Future with Organic 2D Crystals

L18- Alexey Bilyachenko

INEOS, Moscow, Russia

Title: Metallasilsesquioxane cages:
synthesis, structure, applications









13:00 - 14:30

Lunch & Visit to the Museum

Room: Grand Hall - ACL

L10- Marcella Bonchio

14:30 - 14:50

Dipartimento di Scienze Chimiche, University of Padova, Italy Title: Bioinspired Supramolecular Architectures for Artificial Photosynthesis and Solar Fuels Production

L19- Ana Nunes

LAQV-REQUIMTE, NOVA University of Lisbon, Portugal

Title: The Role of CO2 in a Circular and Sustainable Carbon Economy

Room: Session Room - ACL

L11- Elvira Fortunato

14:50 - 15:10

NOVA School of Sciences and Technology, Lisbon, Portugal *Title: Laser-Induced Graphene: A Novel*

L20- Peter Sadler

University of Warwick, Coventry, UK Title: Roles of the Chemical Elements in Sustaining Life

and Sustainable Way to Synthesize

Graphene

L12- José María De Teresa

Instituto de Nanociencia y Materiales de Aragón (INMA), CSIC-Univ. de Zaragoza, Spain

Title: Efficient nanofabrication based on spin-coated organometallic films and focused ion irradiation

L21- José J. G. Moura

LAQV, NOVA School of Science and Technology, Portugal *Title: Bioinorganic Green Tools*

L23- John Roy Porter



University of Copenhagen, Department of Plant and Environmental Sciences, Denmark *Title: Heresies of the 21st Century*

15:30 - 15:50

15:10 - 15:30

L22- Natividad Carpintero-Santamaria

IFN GV, Universidad Politécnica de Madrid, Spain

Title: Nuclear Sciences and Applied Radiation for Human Development in the 21st Century







October 29th, Tuesday

Room: Grand Hall - ACL

15:50 - 16:20	Coffee Break
16:20 - 16:40	L24- Filipe Duarte Santos CHANGE—Global Change and Sustainability Institute, University of Lisbon, Portugal Title: Softening the Human Sustainability Boundaries to reach Sustainable Development
16:40 - 17:00	L25- Virender K. Sharma School of Public Health, Texas A&M University, USA Title: Science of High-Valent Iron in Sustainable Environment and Human Health
17:00 - 17:20	L26- Paul Lecoq European Organization for Nuclear Research (CERN), Geneva, Switzerland Title: How Physics can contribute to good health and well-being for everyone
17:20 - 17:40	L27- Manuel G. Velarde Instituto Pluridisciplinar, Universidad Complutense, Madrid, Spain Title: Mechanics meets electronics at the nanolevel ruling out heat. Case study: a field effect transistor based on soliton assisted charge transport
17:40 - 18:00	L28- Wil Schilders Department of Mathematics and Computer Science, Eindhoven University of Technology, The Netherlands Title: The role of mathematics for the sustainable goals of UNESCO
18:00 - 18:20	L29- Rui Vilela Mendes CMAFcIO-UL and Academy of Sciences, Lisbon, Portugal Title: Sustainability and governability
20:00	Symposium Dinner (for registrants only)





October 30th, Wednesday

Room: Grand Hall - ACL

08:30 - 09:00	Registration
09:00 - 09:20	L30- Yu Wang Farasis Energy (Hayward, USA; Frickenhausen, Europe; Ganzhou and Zhenjiang, China) Title: Li-ion Battery Development for Electric Vehicle Application.
09:20 - 09:35	L31- Eric Fernandes RECICLOTRON, Nova Friburgo, Brazil Title: Consumer engagement is key for everyday sustainability practices
09:35 - 09:50	L32- Henrique Pombeiro Watt-IS, Portugal Title: From data to added-value services: The role of data science in the energy sector
09:50 - 10:05	L33- Diego de Miguel Certest, Spain Title: Integral LNP delivery platform for RNA therapeutics based on novel ionizable lipids with enhanced Bioactivity
10:05 - 10:20	L34- João Mano, Catarina Custódio METATISSUE, Portugal Title: A tale of translating human-derived biomaterials from the bench to the market
10:20 - 10:35	L35- Pui-In Mak Digifluidic, State-Key Laboratory of Analog and Mixed-Signal VLSI University of Macau, Macau, China Title: Automated nucleic acid analysis systems for decentralized healthcare
10:35 - 11:00	Coffee Break
11:00 - 11:15	L36- Gonçalo Doria STABVIDA, Portugal Title: The Future of At-Home Diagnostics in Medical Care: Introducing Doctor Vida® pocket
11:15 - 11:30	Round Table Discussion







October 30th, Wednesday

Room: Grand Hall - ACL

AL1- Michel Goldman

Blaise Pascal Medal in Medicine and Life Sciences 2024

11:30 - 11:50

Institute for Interdisciplinary Innovation in Healthcare, Université libre de Bruxelles, Brussels, Belgium

Title: How the Covid 19 pandemic shaped the future of medicine and healthcare

AL2- Alfio Quarteroni

Blaise Pascal Medal in Mathematics 2024

11:50 – 12:10 Politecnico di Milano, Italy; EPFL, Lausanne, Switzerland

Title: Scientific Machine Learning for the Simulation of the Heart Function

AL3- Joachim Sauer

Blaise Pascal Medal in Chemistry 2024

12:10 – 12:30 Institute für Chemie, Humboldt-Universität zu Berlin, Germany

Title: Understanding and Improving Materials for Water Harvesting and Carbon Dioxide Capture - MOFs

AL4- Pete Smith

12:30 - 12:50

Blaise Pascal Medal in Earth and Environmental Sciences 2024

Institute of Biological & Environmental Sciences, University of Aberdeen, UK *Title: Managing Land to Address the World's Multiple Challenges*

12:50 - 14:20 Lunch & Visit to the Museum

AL5-Luis O. Silva

Blaise Pascal Medal in Physics 2024

14:20 – 14:40 Instituto de Plasmas e Fusão Nuclear, IST. Univers

Instituto de Plasmas e Fusão Nuclear, IST, Universidade de Lisboa, Lisbon, Portugal *Title: Ultra intense lasers and particle beams: from fundamental science to novel tools for discovery*

AL6- Yury Gogotsi

Blaise Pascal Medal in Materials Science 2024

14:40 – 15:00 Nanomaterials Institute, and Department of Materials Science and Engineering, Drexel University, Philadelphia, USA

Title: MXenes and Their Applications in Water and Energy Technologies

AL7- Pol Spanos

15:00 - 15:20

Blaise Pascal Medal in Engineering 2024

Mechanical & Civil Engineering, Rice University, Houston, USA

Title: Versatile Techniques for Nonlinear Stochastic Dynamic Analyses





October 30th, Wednesday

Room: Grand Hall - ACL

15:20 - 15:50	Welcome & Diplomas to New Members Photos New Members; Awardees; All Participants
15:50 - 16:10	Honor for Distinguished Leadership Past Perpetual Secretary & Past Presidents
16:10 - 16:30	Closing Session & 2025 Symposium
16:30 – 17:00	Coffee Break
17:00 - 18:30	EurASc General Assembly 😊





Poster Session October 29th & 30th

Cloister - ACL

P1- Diogo Miguel Pinto

CEGOT, Faculty of Arts and Humanities of University of Porto, Portugal

Title: Building a Sustainable Future: some strategies and challenges leading to innovative development in rural areas

P2- Esma Ismailova

IMT/Mines St. Etienne, Department of Bioelectronics, Gardanne, France

Title: Organic Bioelectronics for sustainable biomonitoring

P3- Ana Rovisco

CENIMAT/ /i3N, Department of Materials Science, and CEMOP/UNINOVA, NOVA University of Lisbon, Portugal

Title: Sustainable and multifunctional ZTO nanostructures for energy and environmental applications

P4- Ana Rovisco

CENIMAT/ /i3N, Department of Materials Science, and CEMOP/UNINOVA, NOVA University of Lisbon, Portugal

Title: Photodegradation of Rhodamine B under UV and Sunlight using ZTO Nanostructures

P5- Brij Mohan

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: MOFs Engineered for the Capture and Conversion of Carbon Dioxide

P6- Anirban Karmakar

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: Sustainable Halogen-Decorated Metal-Organic Frameworks for Efficient Carbon Capture, Separation and Utilization

P7- Anup Paul

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: Enhancing Oxygen Evolution Reaction Catalysis with Amide Functionalized Coordination Polymers

P8- Abdallah Mahmoud

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: Binary Transition Metal Phosphides Embedded in multi-Codoped Carbon Matrices as Electrode Materials for Batteries and Electrocatalysis







October 29th & 30th

Cloister - ACL

P9- Martin Prechtl

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: UNSDGs and Academia: Is there a holistic approach towards sustainable future societies through small molecules and hydrogen utilisation?

P10- Sónia Carabineiro

LAQV-REQUIMTE, School of Science and Technology, NOVA University of Lisbon, Portugal *Title: Novel organotin-PTA complexes supported on carbon materials as recyclable catalysts for solvent-free cyanosilylation of aldehydes*

P11- Manas Sutradhar

CQE, IST, Universidade de Lisboa, and Universidade Lusófona, Lisbon, Portugal *Title: Vanadium in Catalysis and Sustainability*

P12- Nuno Reis Conceição

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: Catalytic C–H activation of small molecules by copper and zinc complexes towards sustainable organic synthesis

P13- Hugo Lapa

CQE, IST, Universidade de Lisboa, Lisbon, Portugal

Title: Application of ball-mill technology in the synthesis of C-scorpionate complexes and catalytic oxidation reactions