



THE LAB OF THE FUTURE

19 May 2022, 14:15 – 18:00 CEST

Centro Congressi Cavour – Via Cavour, 50/a Rome (Italy)

Fill out now the [registration form!](#)

Online and in-person participation is free of charge



14:15 – 14:20 Welcome, Introduction and coordination

Paolo Moscatti - ALPI President and EUROLAB President

14:20 – 14:45 The Lab of the Future: Testing new frontiers

Álvaro Silva Ribeiro - Head of Metrology Division and Quality Manager (Laboratório Nacional de Engenharia Civil - Portugal), EUROLAB Board Member, IMEKO TC11 Chair, President of RELACRE

14:50 – 15:20 Evolution of Metrological skills in the digital factory and lab

Giulio D'Emilia - Professor at the Department of Industrial Engineering of the University of L'Aquila

Rodolfo Trippodo - Founder and President of IQC Italian Quality Company

15:25 – 15:50 Look at your organization with the eyes of a hacker!

Paolo Sardena - Business Development at IMQ Intuity

15:55 – 16:20 The (cyber) defense is the best attack

Maurizio Siracusa - Ethical Hacker and Cyberteam Manager, cybersecurity division of Euro Informatica SpA

16:25 – 16:50 My Green Lab: Building a culture of sustainability in the lab across the global scientific community

James Connelly - CEO of My Green Lab, non-profit organisation improving the sustainability of scientific research

16:55 – 17:15 Recent developments at the EA and ILAC level

Sergio Guzzi - ACCREDIA - EA-LC Laboratory Committee Vice-Chair

17:20 – 18:00 Conclusions, a talk with:

- **Vincenzo Patti** - ASSOTIC and AIOICI President
- **Álvaro Silva Ribeiro** - Chair of IMEKO TC11 Measurement in Testing, Inspection and Certification
- **Giulio D'Emilia** - Professor at the Department of Industrial Engineering of the University of L'Aquila
- **Sergio Guzzi** - ACCREDIA - EA-LC Laboratory Committee Vice-Chair

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SPEAKERS



Álvaro Silva Ribeiro

Álvaro Ribeiro has an academic background in Physics, with a PhD in Tech. Physics. Since 1992, he has worked in LNEC being Head of the Metrological Quality Division, of the Hydraulic Metrology Laboratory, and Quality Manager. He is President of RELACRE, was President of EUROLAB aisbl (2015-2021) and member of several Committees, namely ILAC, EURAMET, IMEKO and Standardization Committees. He published more than 250 papers in Conferences, Workshops, Symposia and International Journals. Research experience is related with Metrology, experimental Physics, Applied Mathematics and Data Science in Civil Engineering.

14:20 – 14:45 The Lab of the Future: Testing new frontiers

To meet growing challenges of globalization, specialization and open innovation, laboratories need to change their R&DI strategies with focus on data, technology, and human resources. Knowledge is changing and expanding quickly, processes are required to be better, faster, and smarter, information is increasingly scattered, and labs need to attract, retain, and motivate human resources to achieve leadership. This evolution affects all type of laboratories, but all have the potential to achieve their goals using the power of digitalisation, connectivity, and smart ideas.



Giulio D'Emilia

Giulio D'Emilia is Professor of Mechanical and Thermal Measurement at the University of L'Aquila. Topics of his research involve on-field uncertainty assessment of innovative sensors and methods and solutions for traceability of digital sensors in an Industry 4.0 scenario. Opportunities of digitalization of measurements are also of interest to improve the trustworthiness of data. He is author of more than 150 papers in international and Italian journals and conferences.



Rodolfo Trippodo

He is Founder and President of IQC. The company offers Integrated Services to support the Business by combining consultancy interventions with a high professional content with technological solutions in Blockchain for the digital traceability of the performance of organizations and of people's skills.

14:50 – 15:20 Evolution of Metrological skills in the digital factory and lab

Offering services to digitalize process in several companies, IQC noted a lack of attention in the respect of metrological requirements and a gap on the standard level.

To understand the risks related to the credibility in measurements, IQC launched a Research Project involving the University of L'Aquila. The research, still in progress, pointed out that digitalization of measurements in the Factory of the Future offers many technical and economic advantages, but asks to reconsider metrological requirements to be fulfilled to catch these opportunities. The new measurement processes also involve cybersecurity aspects. Both issues could be of interest also for labs aiming at updating and improving their services. How to update the requested metrological skills is an open point to be discussed.

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SPEAKERS



Paolo Sardena

Paolo Sardena has been working in cyber security since the very beginning of his professional life, the time when an antivirus was enough to prevent the worst things from happening and cyber security was just a concern for the technical personnel. He has lived the evolution of the problem tight to the evolution of our world, up to the present days, where Cyber security is more and more a social and cultural problem rather than a technical one, becoming a real nightmare for companies CEO and Business Managers even more that what it is for IT departments. In 2016, he co-founded Intuity to keep up with the evolution of a world plenty of opportunities and new risks for human beings and organizations all over the world. In 2020, Intuity became part of the IMQ Group changing his name in IMQ Intuity.

15:25 – 15:50 Look at your organization with the eyes of a hacker!

The real moment you understand if you are protected enough is when you are under attack.

In that specific situation, you realize what the impact for your business is, what you should have done more or differently. You realize that the fancy and pluri-awarded technology is just useless if is not supported by an adequate cyber security culture within the organization. Why waiting for that moment to occur? Let's make it happen before.



Maurizio Siracusa

Ethical Hacker and Cyberteam Responsible, cybersecurity division at Euro Informatica SpA. Problem Solver and Cyber Security Advisor, has been dealing with IT security and Ethical Hacking for over 20 years. He has followed dozens of Security Audit and Penetration Test projects for companies operating in the financial, banking and ICT, manufacturing, chemical and pharmaceutical sectors, in the healthcare sector and in the public administration. He works in Italy and abroad, in Switzerland, Great Britain and France. For several years, he has been teaching courses in Ethical Hacking and cybersecurity awareness.

15:55 – 16:20 The (cyber) defense is the best attack

"Not if but when", these few words photograph the historical moment of cybersecurity: the problem is not knowing if any company or person will somehow be the victim of a cyber-attack, but knowing when, in what times and with what depth. We must build our protective walls in the best possible way; it is no longer time to postpone investments in cybersecurity to defend our information systems.



James Connelly

James is a visionary sustainability executive with a track record of growing organizations that have transformed industries in multiple sectors, including manufacturing, real estate, tech, and life science. Over his career, he has consulted with and developed sustainability programs for some of the world's largest companies and institutions. An internationally recognized corporate sustainability expert, James has deep knowledge of ESG reporting and strategy. James was selected as a Greenbiz 30 under 30 sustainable business leader in 2017 and a Net Zero Energy Trailblazer in 2019 and is passionate about rapidly catalyzing a global transition to Net-Zero.

16:25 – 16:50 My Green Lab: Building a culture of sustainability in the lab across the global scientific community

In this presentation, James Connelly, CEO of My Green Lab, will introduce the organization and present how My Green Lab Certification is a proven, scalable program that helps organizations achieve their sustainability goals.. He will cover specific tips and tricks that any lab can implement as well as how My Green Lab Certification fits into an organization's overall sustainability objectives. He will also share case studies of organizations that have found value and benefited from the program and its applicability to a broad range of lab typologies, including R&D, QC, Clinical, and Testing Labs.

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SPEAKERS



Sergio Guzzi

Involved for almost 20 years with laboratory activities in the environmental and toxicological field, assessor in the testing/proficiency provider field for 15 years and peer evaluator for the implementation of the Mutual Recognition in the EA Region.

Currently Vice-Chair of the EA Laboratory Committee, committed in improving harmonization of the accreditation requirements at the national and international level. Members of several international accreditation committees and working groups.

16:55 – 17:15 Recent developments at the EA and ILAC level

Growing demands related to digital transformation and artificial intelligence require laboratories to address major challenges introduced in their activities. The Accreditation Bodies community is interested in its development and started to debate at the international level on the potential impact on the current accreditation rules.



Vincenzo Patti

Experienced Managing Director with a demonstrated history of working in the industry and Leadership. Skilled in Strategies, Business Process Improvement, Quality Management, Risk Assessment and Management. Expert on Field Assessment and Service Delivery related to Management Systems. Strong business development professional with an MBA Level II and a Master's Degree in Computer and Information Sciences and Support Services - Università degli Studi di Milano. At LRQA, Vincenzo Patti is Managing Director for Italian legal entity and leads a 600 strong team in Europe, from 12 different cultures. He has extensive experience in the assessment of medium to large organisations worldwide, including using remote auditing methods. Vincenzo is also the current President of ASSOTIC (Italian Federation of Testing Inspection Certification Associations) and AIOICI (Italian Association of International Certification Bodies).

17:20 – 18:00 Conclusions, a talk with:

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- Álvaro Silva Ribeiro – Chair of IMEKO TC11 Measurement in Testing, Inspection and Certification
- Giulio D'Emilia - Professor at the Department of Industrial Engineering of the University of L'Aquila
- Sergio Guzzi – ACCREDIA - EA-LC Laboratory Committee Vice-Chair



Paolo Moscatti

He is an entrepreneur in the field of Tests, Inspections, and Certifications; founder and president of TEC Eurolab, a laboratory active in the field of destructive and non-destructive tests for manufacturing industries: transportation, energy, general industry. For over twenty years an active supporter of associationism, he testifies to its advantages in terms of enhancing the TIC sector, relations with stakeholders, and collaborative development. He currently holds the position of President of ALPI, the Italian Association of Laboratories, Certification and Inspection Bodies, as well as the presidency of EUROLAB, the European federation of national associations of testing and calibration laboratories.