

Conferenze testXpo

34° Expo for Materials Testing
October 12-15, 2026 in Ulm, Germany



Lunedì

12 ottobre 2026

Aula V1

Aula V2

09.30 - 10.00

AI in materials testing - where Data, Algorithms, and Expertise Come Together

Vanessa Marks; ZwickRoell

10.15 - 10.45

Smart digitalization in Testing: More Transparency, Higher Efficiency, Better Quality

Robert Strehle, Daniel Kreutzer; ZwickRoell

11.00 - 11.30

Multi-scale materials testing: from macro to micro digital image correlation

Jidong Kang; Fellow Canadian Academy of Engineering

13.30 - 14.00

How Materials Data drives Reliability, Qualification, and Industrial Scale-Up in the Defense Industry

Aleksander Koprivc; ZwickRoell

Aula V3

09.30 - 10.00

Automation in the testing laboratory as a competitive advantage: an overview of solutions ranging from compact retrofits to the smart lab

Oskar Gnant; ZwickRoell

10.15 - 10.45

Thin foils, big impact – Mechanical characterisation of Lition batteries for simulation purposes

Matthias Pferschy; University of Leoben, Materials Science and Plastics Testing

11.00 - 11.30

Measurement uncertainty – The phantom of materials testing

Christian Ueing; IfEP GmbH

13.30 - 14.00

Metals & Plastics Testing in Extreme Environments – Solutions for High-temperature, H2 and liquid conditions

Thomas Leitgeb-Simandl; ZwickRoell Testing Systems

14.15 - 14.45

Mechanical Testing of Composites for Structural Design and Quality Assurance

Hannes Körber; ZwickRoell

15.00 - 15.30

From servohydraulics to linear motors: the right drive for your fatigue testing

Johannes Küntler; ZwickRoell

Martedì

13 ottobre 2026

Aula V1

- 09.20 - 09.50 **Safety and performance assessment of injectable medical devices**
Steven Malbon, Leah Chissick; MET UK
- 09.50 - 10.20 **What's new around ISO 11040-series on Pre-filled Syringes?**
Horst Koller; Inductio AG, CH
- 10.30 - 11.00 **The Syringe as a System — How Platform Thinking can be used to accelerate development**
Dennis Augustin, Florian Vetter; AbbVie Deutschland
- 11.00 - 11.30 **Testing of Self-injection Devices Across the Lifecycle: Standards, Methods, and Insights**
Hugo AF Klingt; SHL Medical, CH
- 13.30 - 14.00 **A critical analysis of existing and newly developed methods for the mechanical characterization of thin, brittle solid-state battery components**
Jürgen Gross; Jülich Research Centre
- 14.15 - 14.45 **Material Testing in Production Research: Methods and Challenges in Fuel Cell and Battery Manufacturing**
David Kraus; Karlsruhe Institute of Technology (KIT)

Aula V2

- 10.15 - 10.45 **Tensile Testing of Metallic Foils below 0.2 mm Thickness – Publication of the New Standard EN 10382**
Johannes Aegerter; TCA Test Consulting Aegerter
- 11.00 - 11.30 **AI in materials testing - where Data, Algorithms, and Expertise Come Together**
Vanessa Marks; ZwickRoell
- 14.15 - 14.45 **Validating numerical models in academia and industry using optical 3D metrology**
Markus Klein; Carl Zeiss GOM Metrology GmbH
- 15.00 - 15.30 **Smart digitalization in Testing: More Transparency, Higher Efficiency, Better Quality**
Robert Strehle, Daniel Kreutzer; ZwickRoell

Aula V3

- 09.30 - 10.00 **Material characterization of thin sheets at high strains**
Eike Hoffmann; Institute of Metal Forming and Lightweight Construction, Dortmund
- 10.15 - 10.45 **Testing of solid state batteries**
Markus Fasching; TU Graz
- 11.00 - 11.30 **Experimental characterization of the anisotropic permeability and conductivity of a gas diffusion layer**
Peter Lindner; Robert Bosch GmbH
- 13.30 - 14.00 **Tensile Testing of Plastics According to ISO 527 – Tips and Tricks for Efficient Testing**
Hannes Körber; ZwickRoell
- 14.15 - 14.45 **Rethinking MFR/MVR Testing – Driving Efficiency with Smart Software**
Dennis Stöhr; ZwickRoell



Matthias Pferschy

Junior Scientist at the Department of Polymer Engineering and Science, Technical University Leoben

His primary research goal is to develop innovative testing solutions for thin ceramic tapes, which are used, for example, in solid-state batteries. He has held a leadership position (Principal investigator) in the research project ProHybrid since November 2023. In this role, he coordinates the project work of the participating institutes at the Forschungszentrum Jülich and the corresponding collaboration with external partners from universities and industry.

He has extensive experience in the processing and analysis of ceramics, glasses, and cement. A particular focus of his work is on the mechanical and microstructural characterization of these materials.



Iliah Chissick

Technical Scientist – MET Ltd

Has 5 years' experience testing medical devices and is part of the Physical and Combinations department at MET. Has experience testing a variety of medical devices, and knowledge of the standards which they are tested against.

Specialising in catheter testing, Iliah has developed test methods and authored documentation for tests from multiple standards, including ISO 20696, ISO 10555-1 and EN 13868.



Steven Malbon

Combination & Physical Devices Manager – MET Ltd

Steven Malbon is Combination & Physical Devices Manager at Medical Engineering Technologies Ltd and has more than 11 years of experience in medical device performance testing.

He leads testing programs and manages projects for a wide range of medical devices and combination products, supporting manufacturers in demonstrating safety, performance and regulatory compliance.

His expertise includes performance testing, test method development, and the application of international standards, helping companies efficiently navigate complex regulatory requirements.



Markus Klein

Product Sales Manager – ZEISS Industrial Quality Solutions

As Product Sales Manager he is responsible for the European sales and business development for the ZEISS 3D

Testing portfolio. He has extensive knowledge in Digital Image Correlation and the corresponding applications.

Mercoledì

14 ottobre 2026

Aula V1

09.30 - 10.00

Material Measurement enable Digital Twins

Max Keller, M. Vidal; CADFEM Germany GmbH

14.15 - 14.45

Smart Factory: Fully Automated Testing, from Specimen Preparation to Reliable Test Results

Daniel Pöschmann; AMAG Rolling GmbH

Aula V2

09.30 - 10.00

Smart digitalization in Testing: More Transparency, Higher Efficiency, Better Quality

Robert Strehle, Daniel Kreutzer; ZwickRoell

10.15 - 10.45

The hardness portfolio at ZwickRoell - Your complete solution partner. From micro to macro

Michael Grandits; EmcoTest Prüfmaschinen

11.00 - 11.30

AI in materials testing - where Data, Algorithms, and Expertise Come Together

Vanessa Marks; ZwickRoell

Aula V3

09.30 - 10.00

Advanced Mechanical Testing in: Materials in Hydrogen Environments, Explosives and Propellants

Sem de Maag; TNO Defense and Security

13.30 - 14.00

Artificial Intelligence in Hardness Testing – How AI Makes Evaluation Faster and More Reliable

Michael Grandits; EmcoTest Prüfmaschinen



Jürgen Peter Gross

Postdoctoral researcher –
Research Centre Jülich GmbH

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Horst Koller

CQRO

Inductio+

Horst worked for Abbott Diagnostic and SCHOTT Pharmaceutical Packaging before becoming a consultant in the primary packaging and container closure system and has now a total of more than 30 years industry experience. He is one of two founders of the Inductio AG based in Switzerland.

He is an active member within the technical ISO Committees TC76 and TC84. He is a speaker on international conferences and holds customized trainings.

He holds an Engineering degree in Biotechnology from the University of Applied Sciences in Mannheim / Germany.



Peter Lindner

Bosch GmbH Corporate Research | Electrochemical Design



His research focuses on the advanced characterization of porous media for electrochemical energy systems. The primary goal of his work is to understand how pore-scale mass and charge transport mechanisms influence the macroscopic performance of fuel cells and electrolyzers.

To achieve this, he applies advanced diagnostic techniques and investigates structure–property–performance relationships in porous electrodes and transport layers, contributing to the optimization of next-generation electrochemical devices.



Achim Frick

Professor of Plastics Engineering –
University Aalen

His academic career began with studies in mechanical engineering at the University of Stuttgart, where he also earned his doctorate with a thesis on fiber-reinforced composites.

After completing his doctorate, he spent several years working in the development department at FESTO AG as a specialist in plastics and elastomer materials before being appointed Professor of Plastics Recycling at Aalen University.

His scientific interests lie in plastics engineering and testing. He is the author of numerous technical publications and several books on plastics testing technology.



Giovedì

15 ottobre 2026

Aula V1

Aula V2

10.15 - 10.45

**Smart digitalization in Testing:
More Transparency, Higher Efficiency, Better Quality**
Robert Strehle, Daniel Kreutzer; ZwickRoell

13.30 - 14.00

**AI in materials testing - where Data, Algorithms,
and Expertise Come Together**
Vanessa Marks; ZwickRoell

Aula V3

10.15 - 10.45

Characterization of recycled plastic for use in products
Achim Frick, University Aalen

Le conferenze avranno luogo tutti i giorni, dal 12 al 15 ottobre, dalle 09.30 alle 15.00 nelle aule V1, V2 e V3.
Negli slot non presenti in programma si terranno conferenze in lingua tedesca.