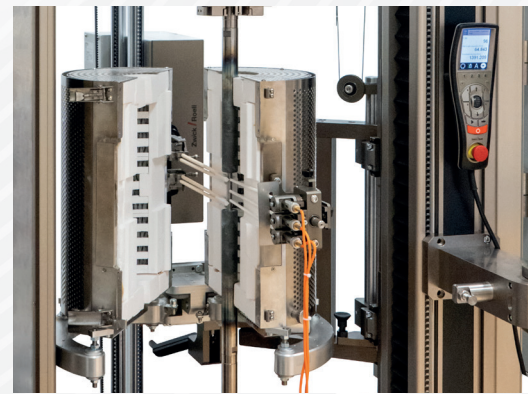


Customer Week Austria

Forum for High-Temperature Testing, Industry Day and Academia Day
June 7 - 10, 2022 (in Vienna and Fürstenfeld)

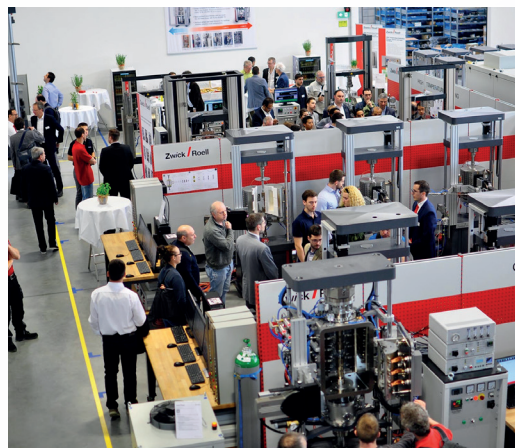
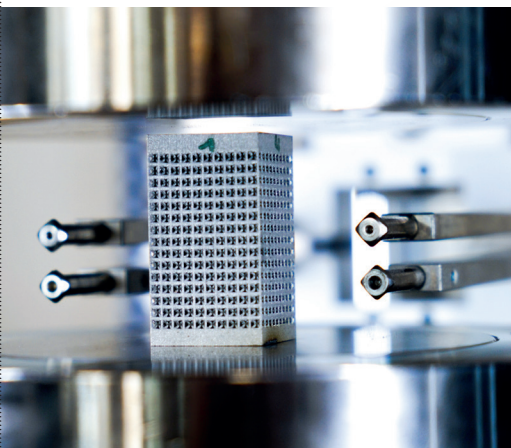


Customer Week Austria

Customer Week Austria 2022 addresses advances in testing technology in the important innovation fields of additive manufacturing and high-temperature applications. Together with stakeholders from science, research and industry, you will be able to learn about innovations and trends within the framework of three modularly structured events and exhibitions and discuss them in an exchange with speakers and other participants. In addition to updates on the latest technology, you will receive valuable information that you can apply in your everyday testing routine.

Take the opportunity to gain new inspiration through practical presentations and workshops. Engage in discussions with international experts from research and development as well as from materials testing and quality assurance and expand your network with like-minded people.

The week is designed as a comprehensive event guided by a supporting, attractive agenda. However, if preferred, you may also book the individual sessions independently from each other.



High-Temperature Days at ZwickRoell Fürstenfeld

Date: Tuesday, June 7, 2022 and Wednesday, June 8, 2022
Key topics: High-temperature testing, creep testing, thermomechanical fatigue testing, and non-contact strain measurement
Presentation language: English
Participation is free of charge

Industry Day at TU Wien incl. exhibition

Date: Thursday, June 9, 2022
Key topics: Additive manufacturing and testing technologies for safe and reliable products and processes
Presentation language: German (English simultaneous translation available upon request – feedback via registration form)
Participation is free of charge

Academia Day at TU Wien

Date: Friday, June 10, 2022
Key topics: Linking microstructure to macroscopic properties – with a special focus on AM
Presentation language: English
Participation is free of charge
The evening before: Dinner at the Vienna City Hall

We will be happy to book a hotel room in Fürstenfeld and/or Vienna for your stay at your expense. If you need assistance with transfers, please include this information on the registration form.

More information
and registration:
[zwickroell.com/
customerweek](https://www.zwickroell.com/customerweek)

Zwick / Roell

ZwickRoell Forum for High-Temperature Testing

June 08, 2022 in Fürstenfeld, Austria

Agenda

from 8:30 AM	Arrival and registration at ZwickRoell in Fürstenfeld	
08:45 AM	Welcome by Peter Ruchti <i>ZwickRoell Testing Systems GmbH</i>	
09:00 AM	Can Tubular Specimen be an Alternative for Hydrogen Autoclaves - Test System and Recent Results <i>Dr.Ing. Ken Wackermann, Fraunhofer Institute for Mechanics of Materials IWM, Germany</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
09:45 AM	High-Temperature Behaviour of Nuclear Fuel Cladding Materials during Accidents and Long-Term Dry Store <i>Mirco Große, Karlsruhe Institute of Technology, Germany</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
10:30 AM	Coffee break	
10:45 AM	The Top Creep and Oxidation Resistant ODS Alloy - Challenging Material for Structural Application in Testing Machines up to 1300°C <i>Dr. Jiri Svoboda, IPM, Czech Republic</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
11:30 AM	Electron Beam Based Additive Manufacturing of Non-Weldable Superalloys for Turbine Engine Application and AM Specific Requirements on High-Temperature Material Testing <i>Dr. Markus Ramsperger, GE Additive, Sweden</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
12:15 PM	Lunch	
01:00 PM	High Temperature Corrosion Fatigue Testing in Critical Aerospace Components <i>Dr. Hollie Cockings, Swansea University, United Kingdom</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
01:45 PM	Material Characterization for Turbomachinery Applications - L-PBF IN718 creep behavior near yield stress <i>Matilde Scurria, TEC Eurolab, Italy</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
02:30 PM	Daily Routines and Case Studies in High-Temperature - Static Testing of Nickel-Based Superalloys <i>Asim Efe Arsal, TEI, Turkey</i>	
	Guided tour directly at the exhibits (parallel to the lecture)	
03:00 PM	Coffee break	
03:00 - 05:00 PM	Time for individual discussions	
03:15 PM	Workshop: Thermo-Mechanical Fatigue Testing	
04:00 PM	Workshop: Thermo-Mechanical Fatigue Testing	
05:00 PM	Close of event	

ZwickRoell Industry Day

Additive Fertigungs- und Prüftechnologien für sichere Produkte und Prozesse
Additive Manufacturing and Testing Technologies for Safe and Reliable Products and Processes
June 09, 2022, TU Wien, Austria

Agenda

(Lecture language German - English simultaneous translation available upon request – feedback via registration form)



from 8:15 AM

Registration

8:45 AM

Welcome address

Prof. Sabine Seidler, TU Wien
Member of the management, ZwickRoell

09:15 AM

Herausforderung AM – Werkstoffe und Prozesse / *AM challenges – materials and processes*

Prof. Jürgen Stampfl, TU Wien

Prüfanforderungen im Additive Manufacturing – ein Status / *Status Testing Requirements in Additive Manufacturing*

Dr. Denise Beitelschmidt, ZwickRoell

Prozesszertifizierung 3D Druck (Praxisbeispiel)

Dr. Joachim Rajek, TÜV Austria Services GmbH

10:30 AM

Coffee break

11:00 AM

Form- und Materialwerdung: Digitale Fertigung mittels Hot Lithography

Shaping and material generation: digital production using Hot Lithography

Dr. Sonja Baumgartner, Cubicure

Wenn das Pulverbett zu klein wird: AM Werkstoffe & Bauteile für die ESA – Business Case

Whenever AM parts exceed the size of the powderbed: AM Materials & Components for Earth and Space

DI Michael Kitzmantel, RHP

testXpert III – sichere Prüfergebnisse / *testXpert III – reliable test results*

Robert Strehle, ZwickRoell

12:00 PM

Lunch

1:00 PM

Mechanische Charakterisierung von additiv gefertigten Keramiken

Mechanical characterisation of additively manufactured ceramics

Dr. Johannes Homa, Lithoz

Industrielle Computertomographie als Instrument zur Digitalisierung und Qualifizierung additiv gefertigter Bauteile

Steffen Hachtel, F & G Hachtel GmbH & Co. KG

IN718 – Pulverspezifikation für die Luftfahrtzulassung / *IN718 – Powder specification for aerospace certification*

Andreas Rößmann, MTU Aero Engines AG

2:30 PM

Coffee break

3:00 PM

Fortschritte in der lithografiebasierten additiven Fertigung mit Edelstahl

Lithography-based Metal Manufacturing. Complementary to mass production with metal injection molding

Denise Mödder, Incus GmbH

Wo Mikrospritzguss endet – Additive Fertigung von Objekten mit Strukturelemente von bis zu 100 nm

Beyond Microinjection Molding – Additive Manufacturing of Objects with Structural Elements down to 100 nm

Dr. Bernhard Küenburg, Up-Nano

Prüftechnik in der additiven Fertigung: Statische und dynamische Prüflösungen

ZwickRoell

4:30 PM

End of event, After Work Drink

11th Academia Day of the ZwickRoell Group

Linking Microstructure to Macroscopic Properties
June 10, 2022, TU Wien, Austria

Agenda

8:15 AM	Registration	
9:00 AM	Welcome address <i>Prof. Josef Eberhardsteiner, Technische Universität Wien, Austria</i> <i>Klaus Cierocki, ZwickRoell GmbH & Co. KG, Germany</i>	
9:30 AM	Additive manufacturing for innovative aerospace parts – process route and characterization <i>Prof. Frank Brückner, Fraunhofer Institute, Germany</i>	
10:00 AM	Nanostructured metallic alloys: Tuning microstructure and mechanical properties <i>Prof. Jürgen Eckert, University of Leoben, Austria</i>	
10:30 AM	Coffee break	
11:00 AM	Local anisotropy in microstructure and properties of additively manufactured materials <i>Prof. Prashanth Konda Gokuldoss, Tallinn University of Technology, Estonia</i>	
11:30 AM	Thermodynamics and homogenisation theory as driving forces in the design of novel experiments and the (re-)evaluation of data <i>Prof. Christian Hellmich, Technische Universität Wien, Austria</i>	
12:00 PM	Mechanical characterization and fractography of ceramics produced by additive manufacturing <i>Dr. Johannes Homa, Lithoz GmbH, Austria</i>	
12:30 PM	Lunch and photo session	
2:00 PM	Title to be defined <i>Prof. Johannes Schleifenbaum, RWTH Aachen University, Germany</i>	
2:30 PM	3D-printable materials: Design principles for strong and tough polymers, ceramics and metals <i>Prof. Jürgen Stampfl, Technische Universität Wien, Austria</i>	
3:00 PM	Advances in modeling and experimental analysis of laser powder-bed fusion of Ni-based alloys <i>Prof. Ehsan Toyserkani, University of Waterloo, Canada</i>	
3:30 PM	Rewarding ZwickRoell Science Award Lecture ZwickRoell Science Award 1 st prize Lecture ZwickRoell Science Award 2 nd prize Lecture ZwickRoell Science Award 3 rd prize	
4:45 PM	ZwickRoell Academia Day 2023: Introduction of the host	
5:00 PM	Closing address	



