



Working Group W10 "High-temperature Behaviour"

Working Group W14 "Creep Crack Growth Analysis"

→ **ASME Papers from W10 and W14: High-temperature Research in Mechanical Integrity I-II (ThC 29-11 | ThD 2913)**

Paper / Presenter	WG	Recommendation
<p><a href="#"><u>Aspects of Creep Fatigue Lifetime Assessment for High-temperature Components with Accumulative Model</u></a></p> <p><i>Dr.-Ing. Christian Kontermann, Head - High-temperature Materials</i></p> <p>Centre for Structural Materials - State Materials Testing Institute Darmstadt, Institute for Materials Technology (MPA-IfW   TU Darmstadt)</p>	W10	
<p><a href="#"><u>Application Concepts and Experimental Validation of Constitutive Material Models for Creep-Fatigue Assessment of Components</u></a></p> <p><i>Dr.-Ing. Christian Kontermann, Head - High-temperature Materials</i></p> <p>Centre for Structural Materials - State Materials Testing Institute Darmstadt, Institute for Materials Technology (MPA-IfW   TU Darmstadt)</p>	W10	Journal
<p><a href="#"><u>Towards a Better Understanding of Crack Growth in Nickel-Cast Alloys under Creep-Fatigue and Thermo-Mechanical Fatigue Conditions</u></a></p> <p><i>Dr.-Ing. Karl Michael Krämer, Researcher - Experimental and Theoretical Description of the Crack / Crack Growth Behaviour under Thermomechanical High-temperature Loading</i></p> <p>Centre for Structural Materials - State Materials Testing Institute Darmstadt, Institute for Materials Technology (MPA-IfW   TU Darmstadt) / Materials Testing Institute (MPA)   University of Stuttgart</p>	W14	Journal
<p><a href="#"><u>Assessment of Power Plant Components with Flaws and Defects Operating in the Long-term Creep Range</u></a></p> <p><i>Dr.-Ing. Magdalena Speicher, Deputy Department Head "NDT and Materials Characterisation"</i></p> <p>Materials Testing Institute (MPA)   University of Stuttgart</p>	W14	Journal
<p><b>Probabilistic Lifetime Assessment Approach of 2%-Cr Steel Considering Material and Loading Profile Scatter</b></p> <p><i>Dr.-Ing. Klaus Helbig, Engineering Manager - Life Cycle Condition Assessment, PWR PS-ENG-Parts Reliability &amp; Outage, Power Services</i></p> <p>GE Power   Baden, Switzerland &amp; Mannheim, Germany</p>	W10 / AG Turbo	Journal Best Paper Award



→ ASME Papers from AG TURBO: Operational Aspects (TB 29-8)

Paper / Presenter	WG	Recommendation
<p><b>Probabilistic Lifetime Assessment Approach of 2%-Cr Steel Considering Material and Loading Profile Scatter</b></p> <p><i>Dr.-Ing. Klaus Helbig, Engineering Manager - Life Cycle Condition Assessment, PWR PS-ENG-Parts Reliability &amp; Outage, Power Services</i></p> <p>GE Power   Baden, Switzerland &amp; Mannheim, Germany</p>	W10 / AG Turbo	Journal Best Paper Award
<p><b>Thermo-Structural Analysis of Steam Turbine in Pre-warming Operation with Hot Air</b></p> <p><i>Piotr Luczynski, M. Sc.</i></p> <p>Institute of Power Plant Technology, Steam and Gas Turbines (IKDG)   RWTH Aachen University / GE</p>	AG Turbo	Journal
<p><b>Investigation of Steam Turbine Warm-keeping by Use of Air</b></p> <p>Dennis Toebben, M. Sc.</p> <p>Institute of Power Plant Technology, Steam and Gas Turbines (IKDG)   RWTH Aachen University / GE</p>	AG Turbo	Journal
<p><b>Model-based Analysis of the Start-up Improvement of a CCPP due to Steam Turbine Warm-keeping with Air</b></p> <p>Dennis Toebben, M. Sc.</p> <p>Institute of Power Plant Technology, Steam and Gas Turbines (IKDG)   RWTH Aachen University / GE</p>	AG Turbo	
<p><b>Investigation and Thermal Modeling of the Thermal Contact Resistance at a Steam Turbine Blade Root</b></p> <p>Dennis Toebben, M. Sc.</p> <p>Institute of Power Plant Technology, Steam and Gas Turbines (IKDG)   RWTH Aachen University / GE</p>	AG Turbo	

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