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**TMS2024**  
153<sup>rd</sup> Annual Meeting & Exhibition

MARCH 3–7, 2024  
HYATT REGENCY ORLANDO  
ORLANDO, FLORIDA, USA  
#TMSAnnualMeeting



**SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2024 SYMPOSIUM:**

**MATERIALS DEGRADATION AND DEGRADATION BY DESIGN**

**Accelerated Testing to Understand the Long-Term Performance of High Temperature Materials**

High temperature materials are used in aerospace, power generation, and chemical processing industries where components are expected to withstand superior temperatures, high stresses, and reactive environments during service intervals that last for decades. To design these components, methods to accelerate service degradation are needed such that a mechanistic understanding can be developed in a much shorter time frame, typically in the order of months.

In this symposium, abstracts are requested on topics including but not limited to:

- Accelerated creep and fatigue testing methodologies, modeling frameworks, and prediction capabilities
- Modeling and/or experimental methods to accelerate microstructure evolution and/or mechanical property degradation at elevated temperatures and/or aggressive environments
- Experimental methods to accelerate environmental interaction of high temperature materials
- Interactions of creep, fatigue, environmental effects, and microstructure evolution

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