

AGENDA

Task Group ASTM E08.06.05 Subcommittee on Elevated Temperature Crack Growth
12th May 2021, 12:00 PM to 1:00 PM EST, WEBEX Meeting
Santosh Narasimhachary and Kamran Nikbin, Co-Chairs

Status of Task Group Standards

Santosh Narasimhachary, Siemens Corporation and Kamran Nikbin, Imperial College

- Status of E1457, Standard Test Method for Measurement of Creep Crack Growth Times and Rates in Metals and E2760, Standard Test Method for Creep-Fatigue Crack Growth Testing

Invited Talk: EU DevTMF – Towards code of practice for thermo-mechanical fatigue crack growth

Svjetlana Stekovic, Associate Professor, Linköping University

- DevTMF is a research project funded by the EU Framework Programme for Research and Innovation Horizon 2020 and Clean Sky 2, with an aim to characterize thermo-mechanical fatigue (TMF) behavior of structural alloys of interest to allow for more accurate prediction of design lives of present and future gas turbines.

Dr. Svjetlana Stekovic is project leader of two EU-funded research projects in materials science at the Division of Engineering Materials at Linköping University, Sweden. Dr. Stekovic is also EU Senior Research Coordinator at Grants Office responsible for EU applications and management of EU projects. She has background in the field of damage and deformation mechanisms in high-temperature materials used in gas turbines. She defended her PhD in 2007 at Linköping University and worked as a researcher at Rolls-Royce in the UK for several years before moving back to Linköping University.

Update on the Round-Robin (ILS# 1679): Creep Fatigue Crack Growth in Creep-Brittle Materials in Support of ASTM E2760

David Mills, Rolls Royce, Andrew Rosenberger, AFRL, Santosh Narasimhachary, Siemens Corporation

- Status of ILS1679 to support creep fatigue crack growth in creep-brittle materials (IN718) will be discussed.

Characterization of Creep Fatigue Crack Growth Behavior of IN718 using CT and SEN specimens

Cody Gibson, Robert Stephens, University of Idaho