

Friday May 16 – 8:40 → 10:20

Mechanical behavior III: Polycrystalline Alloys

Chairmen : R.C. Reed & U. Glatzel

8:40 - Effect of Initial γ' Particle Size on Creep Strength of a Wrought Ni-Fe Based Superalloy Designed for A-USC Rotor

Masao Takeyama¹, Tatsuya Takahashi²

¹Tokyo Institute of Technology, Tokyo, JP, ²The Japan Steel Works Ltd., Muroran, JP

9:00 - Effect of the Metallurgical State on the Mechanical Behaviour of 718 Ni-Based Superalloy according to the Tensile Specimen Thicknesses

Damien Texier, Daniel Monceau, Eric Andrieu

CIRIMAT, Toulouse, FR

9:20 - Thresholds of Intergranular Crack Growth in a Nickel Disc alloy 720Li

Hangyue Li¹, Joe Fisk¹, Tim Doel¹, Lik-Beng Lim², Steve Williams², Paul Bowen¹

¹The University of Birmingham, Birmingham, GB, ²Rolls-Royce plc., Derby, GB

9:40 - Thermomechanical Behavior of Different Ni-Base Superalloys during Cyclic Loading at Elevated Temperatures

Daniel Huber², Matthias Hacksteiner¹, Cecilia Poletti¹, Fernando Warchomicka³, Martin Stockinger², Christof Sommitsch¹

¹Graz University of Technology, Graz, AT, ²Böhler Schmiedetechnik GmbH & Co KG, Kapfenberg, AT, ³Vienna University of Technology, Vienna, AT

10:00 - Residual Stresses in Inconel 718 Engine Disks

Yoann Dahan, Sébastien Nouveau, Eric Georges

Aubert & Duval, Pamiers, FR

