

Thursday May 15 – 8:40 → 10:20

Mechanical Behavior II: Single Crystal Alloys

Chairmen : G. Eggeler & T. Etter

8:40 - The Lattice Misfit and Creep Strength of γ/γ' Co-Base Superalloys in Comparison with Ni-Base Superalloys

Steffen Neumeier, Christopher Zenk, Alexander Bauer, Lisa Freund, Mathias Göken
University of Erlangen-Nuremberg, Erlangen, DE

9:00 - Effect of Secondary Orientation on Mechanical Properties of a Nickel-Base Single Crystal Superalloy

Li Wang, Zhongjiao Zhou, Jian Shen, Langhong Lou, Jian Zhang
Institute of Metal Research, Chinese Academy of Sciences, Shenyang, CN

9:20 - Transverse Creep Studies of Misoriented Grains in René N4 and GTD444 Superalloy Bicrystals

Jean-Charles Stinville, Kaitlin Gallup, Tresa M. Pollock
University of California Santa Barbara, Santa Barbara, USA

9:40 - Impact of the Alloy's Chemistry on the Creep Properties under Thermal Cycling Conditions of Ni-Based Single Crystal Superalloys

Zéline Hervier¹, Rémi Giraud¹, Jonathan Cormier²
¹Turbomeca – SAFRAN Group, Bordes, FR, ²Institut Pprime, Poitiers, FR

10:00 - Thermomechanical Fatigue in Single Crystal Superalloys

Johan Moverare¹, Roger Reed²
¹Linköping University, Linköping, SE, ²University of Oxford, Oxford, GB

