

Thursday May 15 – 10:50 → 12:30
Recrystallization and Grain Growth
Chairpersons : E. Balikçi & H. Schaff

10:50 - Application of Laser Ultrasonic for the Evolution of Microstructure in INCO718 Superalloy

Jean-Hubert Schmitt¹, Thomas Garcin², Matthias Militzer²

¹Ecole Centrale Paris, Chatenay-Malabry, FR, ²The University of British Columbia, Vancouver, CA

11:10 - Solutions to the Hard-to-Deformed Wrought Superalloys

Ji Zhang, Xuedong Lu, Beijiang Zhang, Zhongnan Bi

China Iron and Steel Research Institute Group, Beijing, CN

11:30 - A study on the Effect of Composition, and the Mechanisms of Recrystallisation in Single Crystal Ni-Based Superalloys

Harshal Mathur¹, Neil (C.N.) Jones², Catherine M.F. Rae³

¹FAU Erlangen-Nürnberg, Erlangen, DE, ²Rolls-Royce plc, Derby, GB, ³University of Cambridge, Cambridge, GB

11:50 - Characterisation of Abnormal Grain Coarsening in Alloy 718

Richard Watson¹, Michael Preuss¹, João Quinta da Fonseca¹, Thomas Witulski², Gregor Terlinde², Markus Büscher²

¹University of Manchester, Manchester, GB, ²Otto Fuchs, Meinerzhagen, DE

12:10 - Full Field Modelling of Recrystallization in Superalloys thanks to Level-Set Method

Marc Bernacki¹, Nathalie Bozzolo¹, Roland Logé¹, Yuan Jin¹, Andrea Agnoli¹, Ana-Laura Fabiano¹, Anthony D. Rollett², Greg S. Rohrer², Jean-Michel Franchet³, Johanne Laigo³

¹CEMEF Mines ParisTech, Sophia Antipolis, FR, ²Carnegie Mellon University, Pittsburgh, USA, ³Snecma-SAFRAN Group, Colombes, FR

