

Thursday May 15 – 16:10 → 17:50

Precipitation

Chairpersons : J. Cormier & C.M.F. Rae

16:10 - On the Evolution of TCP Phase Chemistry and Crystallography during Creep of the Single Crystal Superalloy ERBO 1

Alireza B. Parsa¹, Aleksander Kostka², Philip Wollgramm¹, Hinrich Buck¹, Christoph Somsen¹, Gunther Eggeler¹

¹Ruhr-Universität Bochum, Bochum, DE, ²Max-Planck Institute for Iron Research GmbH, Dusseldorf, DE

16:30 - The effect of Ru on Precipitation of Topologically Close Packed Phases in Re - Containing Ni Base Superalloys: Quantitative FIB - SEM Investigation and 3D Image Modeling

*Kamil Matuszewski, Ralf Rettig, Robert Singer
University of Erlangen-Nuremberg, Erlangen, DE*

16:50 - On the Composition-Size Relationships of γ' Precipitates in an Advanced Ni-Based Superalloy

*Yiqiang Chen, Elisabeth Francis, Edward Lewis, Michael Preuss, Sarah Haigh
The University of Manchester, Manchester, GB*

17:10 - Evolution of Secondary Phases in Alloy ATI 718Plus® during Processing

*Ana Casanova¹, Nuria Martín Piris², Robert Krakow¹, Mark C. Hardy³, Catherine M.F. Rae¹
¹University of Cambridge, Cambridge, GB, ²Escuela de Ingeniería Aeronáutica y del Espacio, Madrid, ES, ³Rolls-Royce plc, Derby, GB*

17:30 - γ' Precipitation Kinetics in the Powder Metallurgy Superalloy N19 and Influence of the Precipitation Latent Heat

*Mikael Perrut, Didier Locq
Onera - The French Aerospace Lab, Châtillon, FR*

