

Posters

Poster sessions #1: Tuesday May 13 – 18:00 → 19:45

Poster sessions #2: Thursday May 15 – 18:00 → 19:45

All posters will be displayed throughout the Symposium

Precipitation

0097 Atom Probe Tomographic Study of γ' Precipitation in Single Crystal Ni-Based AM1 Superalloy

Xipeng Tan¹, Luc Rougier², Damien Ponsen⁴, Dominique Mangelinck¹, Carine Perrin-Pellegrino¹, Charles-André Gandin³, Alain Jacot², Paolo Di Napoli², Virginie Jaquet⁴

¹Université Aix-Marseille, Marseille, FR, ²Ecole Polytechnique Fédérale de Lausanne, Lausanne, CH, ³CEMEF MINES ParisTech, Sophia Antipolis, FR, ⁴Snecma-SAFRAN Group, Colombes, FR

0042 Metallurgical Optimization of PM Superalloy N19

Didier Loco¹, Loïc Nazé², Jean-Michel Franchet³, Pierre Caron¹, Alice Dumont², Alain Köster², Jean-Yves Guédou⁴

¹Onera – The French Aerospace Lab, Châtillon, FR, ²CdM Mines ParisTech, Evry, FR, ³Snecma-SAFRAN Group, Colombes, FR, ⁴Snecma-SAFRAN Group, Moissy-Cramayel, FR

0112 Fine Microstructural Characterization of INCONEL 718

Cédric Bellot¹, Fabio Taina², Pascal Lamesle², Denis Delagnes², Philippe Lours²

¹ACRDM, Albi, FR, ²Institut Clément Ader, Albi, FR

0117 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

0118 Large Scale 3-D Phase-Field Simulation of Coarsening in Ni-Base Superalloys

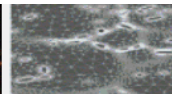
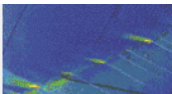
Mohan Kumar Rajendran, Oleg Shchyglo, Ingo Steinbach

Ruhr-Universität, Bochum, DE

0123 A TEM - EDS Study for the Element Partition in Precipitates and Matrix in the Superalloy IN738LC

Ercan Balikci¹, Ozgur Duygulu²

¹Bogazici University, Istanbul, TR, ²TÜBITAK - MAM, Gebze, TR



Precipitation (continued)

0133 Microstructural and Mechanical Investigations on ATI Allvac 718PLUS

Loïc Nazé¹, Meriadeg Revaud¹, Alain Koster¹, Luc Rémy¹, Jean-Michel Franchet³, Jean-Yves Guédou²

¹CdM Mines ParisTech, Évry, FR, ²Snecma-SAFRAN Group, Moissy-Cramayel, FR, ³Snecma-SAFRAN Group, Colombes, FR

0151 High Resolution Orientation Mapping of Secondary Phases in ATI 718Plus®

Robert Krakow¹, Mark C. Hardy², Catherine M.F. Rae¹, Paul A. Midgley¹

¹University of Cambridge, Cambridge, GB, ²Rolls-Royce plc, Derby, GB

0162 Numerical Simulation of AM1 Microstructure

Luc Rougier¹, Alain Jacot¹, Charles-André Gandin², Paolo Di Napoli¹, Damien Ponsen³, Virginie Jaquet³

¹EPFL, Lausanne, CH, ²CEMEF Mines ParisTech, Sophia Antipolis, FR, ³Snecma-SAFRAN Group, Colombes, FR

0173 Examination of Chemical Elements Partitioning between the γ and γ' Phases in CMSX-4 Superalloy using EDS microanalysis and electron tomography methods

Beata Dubiel, A. Kruk, A. Czyrska-Filemonowicz

AGH University of Science and Technology, Krakow, PL

0181 Modelling Ternary Effects on Antiphase Boundary Energies in Ni₃Al

K.V. Vamsi, S. Karthikeyan

Indian Institute of Science, Bangalore, IN

0205 Orientation Effect on Discontinuous Precipitation along the Boundary of Second and Third Generation Single Crystal Superalloys

Zhengrong Yu¹, Yunrong Zheng¹, Lamei Cao², Qiang Feng¹

¹University of Science and Technology Beijing, Beijing, CN, ²Beijing Institute of Aeronautical Materials, Beijing, CN

0215 Solution and Aging of the MAR-M246 Nickel-Based Superalloy

Renato Baldan, Carlos Nunes

University of São Paulo, Lorena, BR

