

Pre-nominated Session SM14

Mechanics of phase transformations

Co-Chair(s): **F.D. Fischer (Austria)**
 A. Molinari (France)

Paper ID	Title	Authors
SM14L_10046	Temperature and Strain Rate Effects on TRIP Sheet Steel. Measurement of Temperature by Infrared Thermograph	Wojciech K. Nowacki, Alexis Rusinek, Stefan P. Gadaj, Janusz R. Klepaczko
SM14L_10088	A Numerical Approach to Martensitic Phase Transformations	Thomas Antretter, Franz Dieter Fischer, Georges Cailletaud
SM14L_10434	Macro-, Meso- and Micro - Scopic Metallo - Thermo - Mechanics	Tatsuo Inoue
SM14L_10648	Multiscale Modeling of Steels assisted by Transformation - Induced Plasticity	Sergio Turteltaub, A. S. J. Suiker
SM14L_10721	The Nature of Stress and Strain Fields in Shape Memory Polycrystals	Isaac Chenchiah, Kaushik Bhattacharya
SM14L_11308	Shape Memory Alloy Under Strain and Stress Controlled Conditions - Thermomechanical Aspects of Martensite and Reverse Transformations	Wojciech K. Nowacki, Elzbieta A. Pieczyska, Stefan P. Gadaj, Hisaaki Tobushi, Makoto Takagi
SM14L_11325	High Pressure Mechanochemistry: Conceptual Multiscale Theory and Interpretation of Experiments	Valery I. Levitas
SM14L_11393	Stress-Induced Martensitic Phase Transition Front Propagation	Arkadi Berezovski, Gerard A. Maugin
SM14L_11395	Modeling Martensite Transformation in the Elasto - Plastic Material at Finite Strain	Shangping Chen, V. Kouznetsova, M. G. D. Geers
SM14L_11625	Modeling of the Microstructural Evolution in Cr-Mo Steels During Tempering and Hydrogen Exposure	Sabine M. Schloegl
SM14S_11837	Equilibrium and Stability of Two - Phase Deformations within the Framework of Phase Transition Zones	Alexander Freidin, Yibin Fu

SM14L_11852	On Modeling the Longitudinal Impact of Two Shape Memory Bars	Cristian Faciu, Alain Molinari
SM14L_12077	A Micromechanical Model for Single - Crystal Shape - Memory - Alloys	Thorsten Bartel, Klaus Hackl
SM14S_12121	Simulation of Discontinuity Movement by Boundary Elements	Claus Oberste - Brandenburg
SM14L_12225	Determination of Phase Transformation Yield Surface of Anisotropic Shape Memory Alloys	Taillard Karine, Calloch Sylvain, Bouvet Christophe, Lexcellent Christian
SM14L_12421	Numerical Determination of Diffusional Transformation Induced Plasticity from Computations of Random Microstructures	Fabrice Barbe, Romain Quey, Lakhdar Taleb
SM14L_12747	Numerical Analyses of the Interaction Classical Plasticity - TRIP	Salem Meftah, Fabrice Barbe, Lakhdar Taleb, Francois Sidoroff
SM14S_12881	Nucleation and Motion of Phase Boundary in Shape Memory Alloy Microtubes	Qingping Sun