

Tuesday May 13 – 10:50 → 12:30 Alloy Development I: Ni-Based Alloys Chairpersons : D. Banerjee & J. Esslinger

10:50 - What is the Role of Rhenium in Single-Crystal Superalloys?

Alessandro Mottura¹, Roger C. Reed²

¹University of Birmingham, Birmingham, GB, ²University of Oxford, Oxford, GB

11:10 - High Strength Eutectic Intermetallics

Chandra Sekhar Tiwary, Dipankar Banerjee, Kamanio Chattopadhyay
Indian Institute of Science, Bangalore, IN

11:30 - Compositional Effect on TCP Phase Formation in Ru-containing Ni-Based Single Crystal Superalloys

Qianying Shi¹, Jiajie Huo², Xianfei Ding², Yunrong Zheng², Lamei Cao³, Qiang (Charles) Feng²

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11:50 - Development of a New 718-type Ni-Co Superalloy Family for High Temperature Applications at 750°C

Tatiana Fedorova¹, Joachim Rösler¹, Bodo Gehrman², Jutta Klöwer²

¹Technische Universität Braunschweig, Braunschweig, DE, ²Outokumpu VDM GmbH, Werdohl, DE

12:10 - Mechanical Properties and Development of Supersolvus Heat Treated New Nickel Base Superalloy AD730™

Alexandre Devaux¹, Leif Berlin², Louis Thébaud¹, Romain Delattre³, Coraline Crozet¹, Olivier Nodin³

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