

PREFACE

ICSAM 2018, the 13th Interactional Conference on Superplasticity in advanced Materials, will held in Saint-Petersburg, Russia, from August 19th to 22nd, 2018. More than 150 researchers from 20 countries will take part in this conference. The main feature of ICSAM 2018 is the fact that a minor part of presentations are dealt with the examination of superplastic phenomenon and the implementation of superplastic forming technique into commercial use. Different aspects of materials exhibiting superplastic phenomenon are considered in a major part of presentations. Producing materials with ultra-fine grained structure and their unique mechanical and functional properties have been attracting significant attention. Two symposiums will be dedicated to the memory of Oskar Kaibyshev, Russia and Oleg Sherby, US contributed significantly to examination of superplastic materials and the development of commercial technologies on the base of superplasticity.

National Program Committee invited six participants of ICSAM2018 to submit overviews and original works for publication in special issue of Review of Advanced Materials Science. These selected articles describe with different aspects of superplasticity as well as attractive properties materials with ultra-fine grained structure and none-ferrous alloys, which could be easily processed in high strength state through extensive grain refinement by intense plastic straining. Superplastic phenomenon is an important but additional part of research activity for majority of conference participants. Their current activity lies in other fields of materials science. This journal issue gives an opportunity to be familiarized with achievements of leading scientists taking part in ICSAM 2018 or their outlook on advanced materials with attractive properties.

Rustam Kaibyshev
Chairman of Local Organizing Committee of ICSAM 2018 (The 13th ICSAM),
Belgorod National Research University,
Russia