

13th International Conference on Superplasticity in Advanced Materials (ICSAM 2018)

August 19-22, 2018
St. Petersburg, Russia



WELCOME TO THE 13th INTERNATIONAL CONFERENCE ON SUPERPLASTICITY IN ADVANCED MATERIALS!

Scope: The ICSAM 2018 Conference will cover all aspects of alloy design, processing, microstructure/property evaluation, testing and commercial application of superplastic materials, as well as grain refinement and related phenomena. In addition, two special symposiums to honor the memory of former distinguished colleagues in the area of superplasticity, Prof. O.A. Kaibyshev and Prof. O. Sherby, will be organized.

Oral presentations dealing with the various conference topics listed below will be included in the conference program. The conference committee has invited eminent internationally recognized researchers in key areas of superplasticity and related phenomena from various countries around the world to deliver plenary and keynote lectures at the ICSAM 2018.

Chief Organization:

Federal State Autonomous Educational Institution of Higher Education «Belgorod National Research University»

Co-Organization:

- Federal State Budgetary Educational Institution of Higher Education «Saint-Petersburg State University»
- Federal State Autonomous Educational Institution of Higher Education «Saint Petersburg National Research University of Information Technologies, Mechanics and Optics»
- Limited Liability Company «Armalit31»

Conference Topics

SUPERPLASTIC MATERIALS AND MECHANISMS OF SUPERPLASTICITY

- Superplasticity in Metals and Alloys, Ceramics and Intermetallics
- Superplasticity in Novel Materials: Bulk Metallic Glasses, TRIP/TWIP steels, High-Entropy Alloys and Metallic Heterostructures
- High Strain Rate / Low Temperature Superplasticity
- Mechanisms of Grain Boundary Sliding
- Microstructural Evolution during Superplastic Deformation
- Cavitation and Fracture

SUPERPLASTICITY-RELATED PROCESSING AND PHENOMENA

- Innovative Processing
- Die Materials and Technologies
- Sintering Phenomena and Mechanisms
- Sinter-Forging

INDUSTRIAL APPLICATIONS

- Superplastic Forming
- Diffusion Bonding
- Manufacturing Technologies
- Other Industrial Applications

MECHANICAL AND FUNCTIONAL PROPERTIES OF ULTRAFINE-GRAINED MATERIALS

- Static mechanical properties
- Low- and High Cycle Fatigue
- Fracture Toughness and Creep Resistance
- Strengthening Mechanisms
- Functional properties (wear and corrosion resistance, electrical conductivity, etc.)

GRAIN REFINEMENT BY SEVERE PLASTIC DEFORMATION

- Severe Plastic Deformation Techniques
- Friction Stir Processing
- Thermomechanical Processing
- Other Grain Refinement Technologies
- Mechanisms of Grain Refinement

DESIGN, TESTING AND MODELING

- Numerical Simulations and Modeling
- Integrated Structure Design
- Design using SPF/DB
- Modeling of Material Behavior and Microstructure
- Evaluation and Its Standardization

ICSAM 2018



St. Petersburg, Russia

Important Dates

Abstract Due
January 15, 2018

Manuscript Due
March 1, 2018

Program
July 15, 2018

Conference opening
August 19, 2018

Call for papers

Please fill out the registration form and upload your file of abstract prepared as per the format ABSTRACT TEMPLATE on web-site.

The deadline for abstract submission is January 15, 2018.

International Committee

Prof. Goroh Itoh	Japan
Prof. Gérard Bernhart	France
Mr. Werner Beck	Germany
Prof. Richard Dashwood	UK
Mr. Larry D. Hefti	USA
Prof. Koichi Kitazono	Japan
Prof. Koji Morita	Japan
Prof. Rustam Kaibyshev	Russia
Prof. Megumi Kawasaki	USA
Prof. Zhi Qiang Li	China
Dr. Teresa Perez Prado	Spain
Prof. Eric M. Taleff	USA
Dr. Mike Wallis	UK
Prof. Guofeng Wang	China
Dr. Alexander P. Zhilyaev	Russia

National Program Committee

Prof. R. Kaibyshev	Belgorod National Research University, Belgorod, Russia
Dr. A.P. Zhilyaev	Institute for Metals Superplasticity Problems, Russian Academy of Sciences, Russia
Prof. R.Z. Valiev	Saint Petersburg State University/Ufa State Aviation Technical University, Russia
Prof. A.A. Zisman	NRC "Kurchatov Institute" - CRISM "Prometey", Saint Petersburg, Russia
Dr. S.V. Zherebtsov	Belgorod National Research University, Belgorod, Russia
Prof. A.E. Romanov	Saint Petersburg National Research University of Information Technologies, Mechanics and Optics University ITMO, Saint Petersburg, Russia
Prof. B.B. Straumal	National Research University "MISIS"/ Institute of Solid State Physics RAS, Moscow, Russia
Prof. A.M. Glezer,	National Research University "MISIS", Moscow, Russia

Local Committee

Prof. R. Kaibyshev	Chairman
Dr. M. Tikhonova	Conference Coordinator
D. Magomedova	Representative of Saint-Petersburg State University
D. Tagirov	Representative of the Partner Company Armat31

Publication

All papers will be peer reviewed by the members of the ICSAM 2018 National and International program committees and will be published in a special issue of Material Science Forum, Trans Tech Publications Ltd.

Conference fees

	Early bird Before April 15, 2018	Standard
Regular participant*	550 Euro	650 Euro
Junior researcher*	300 Euro	350 Euro
Accompanying person	150 Euro	150 Euro

Important dates

Abstract Due	January 15, 2018
Manuscript Due	March 1, 2018
Early Payment Due	April 15, 2018
Program	July 15, 2018
Welcome Party	August 19, 2018
First Day Conference	August 20, 2018

* The authors, who want to publish their manuscripts in the Special Issue, must pay the Conference fee by May 1, 2018.

The registration fee includes

For regular participants and junior researchers:

Admission to all conference sessions

Admission to coffee breaks, lunches

Admission to the welcome party and conference dinner

A conference tour

Conference bag with the book of abstracts and other materials

Publication of the manuscript in the periodical/proceedings

Official invitation for a visa to Russia and mailing

For accompanying person:

Admission to the welcome party and conference dinner

A conference tour

Conference bag with the book of abstracts and other materials

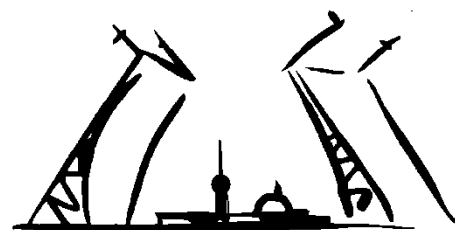
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For general information regarding ICSAM 2018, CONTACT:

Email: icsam@bsu.edu.ru

Web site: <http://icsam.bsu.edu.ru/>

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