

15th International Conference on Superplasticity in Advanced Materials (ICSAM 2026)

Conference Program



August 16–20, 2026, Suzhou, China

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Organized by

Harbin Institute of Technology, China

Chinese Mechanical Engineering Society, China

AVIC Manufacturing Technology Institute, China

State Key Laboratory of Advanced Forming Technology and Equipment, CAM, China

Co-organized by

China Society for Technology of Plasticity, CMES

Harbin Institute of Technology Suzhou Research Institute

School of Materials Science and Engineering, Harbin Institute of Technology

National Key Laboratory of Precision Hot Forming

Suzhou Dafeng Forming Technology Co., Ltd.

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Beijing Puhui Sanhang Technology Co., Ltd.

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Committee

Organizing Committee:

Chairman: Guofeng Wang, Harbin Institute of Technology, China

Committee Members:

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Registration Desk

August 16–17, 2026 (Sunday–Monday): 08:00–22:00

Hotel Lobby Registration Desk, Jinke Grand Hotel Suzhou

Address: No. 67 Nantiancheng Road, Xiangcheng District, Suzhou, Jiangsu, China

Tel: 0512-69378888

Conference Schedule Overview

Date	Time	Place	Activity
Aug. 16	08:00–22:00	Jinke Grand Hotel Suzhou	Registration
Aug. 17	08:30–12:10	Shanghai Hall,4th Floor	Opening Ceremony & Plenary
Aug. 17	14:00–17:50	Shanghai Hall,4th Floor	Oral Presentation
Aug. 18	08:30–17:50	Shanghai Hall,4th Floor	Oral Presentation
Aug. 18	08:30–17:50	Shenzhen Hall B,4th Floor	Parallel Sessions
Aug. 18	19:00–20:00	Shanghai Hall,4th Floor	Committee Meeting
Aug. 19	08:30–15:55	Shanghai Hall,4th Floor	Oral Presentation
Aug. 19	15:55–16:30	Shanghai Hall,4th Floor	Award Ceremony&Closing Ceremony
Aug. 20	08:30–18:00		Industrial travel

Conference Program

Day 1 — August 17, 2026 Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
08:30–08:50	Opening Ceremony	Guofeng Wang, Megumi Kawasaki, <i>Welcome Speech</i>	Guofeng Wang
08:50–09:35	Plenary LecturePlenary Lecture	Ruslan Z. Valiev, <i>Grain boundary engineering of ultrafine-grained materials for advanced superplasticity</i>	
09:35–10:20	Plenary Lecture	Jingtao Wang, <i>Realization of Superplastic Elongation Beyond 10,000%</i>	
10:20–10:40	Coffee Break	—	
10:40–11:25	Plenary Lecture	Kaveh Edalati, <i>Journey of Severe Plastic Deformation from Metals and Superplasticity to Ceramics and Origin of Life</i>	Megumi Kawasaki
11:25–12:10	Plenary Lecture	Donato Sorgente, <i>From Superplastic Behaviour to Superplastic Forming: Bridging Material Characterisation and Process Design</i>	
12:10–14:00	Lunch Break	—	

Day 1 — August 17, 2026 Oral Presentation Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
14:00–14:35	Keynote Lecture	Yulia Ivanisenko, <i>Plastic deformation processes in nanocrystalline materials and nanoglasses</i>	Ruslan Z. Valiev
14:35–14:55	Oral Presentation	Koji Morita, <i>Grain Boundary Sliding behavior under Deformation in Ti₂SiC₂-MAX Phase Ceramic</i>	
14:55–15:15	Oral Presentation	Sergey Zharebtsov, <i>Superplastic behavior of TiNbZr/(Ti,Nb)B metal-matrix composites subjected to high-pressure torsion</i>	
15:15–15:35	Oral Presentation	Anton D. Kotov, <i>Influence of alloying elements on the microstructure and superplastic behavior of different types of titanium alloys</i>	Jingtao Wang
15:35–15:55	Oral Presentation	Yue Liu, <i>Lath-dominated heterogeneous microstructure enables exceptional superplasticity via dual-mode dynamic recrystallization: A case of Ti–6Al–4V alloy</i>	
15:55–16:15	Coffee Break	—	
16:15–16:50	Keynote Lecture	Nguyen Quang Chinh, <i>Unlocking Low-Temperature Superplasticity and Novel Mechanisms in Ultrafine-Grained Aluminum Alloys</i>	Koji Morita
16:50–17:10	Oral Presentation	Mingyu Ding, <i>Mechanical Properties and Microstructure Regulation Mechanism of Hydrogenated Ti₂AlNb-based Alloys</i>	
17:10–17:30	Oral Presentation	Junliang Guo, <i>Excellent superplasticity achieved via cold-rolled annealing of AlCrFe_{1.5}Ni_{2.6}Vo_{0.3} eutectic highentropy alloys</i>	Xiaoning Han
17:30–17:50	Oral Presentation	Ramil Lutfullin, <i>Solid-phase welding at low temperatures of industrial alloys using a superplastic interlayer</i>	
18:00–20:00	Welcome Dinner	—	

Day 2 — August 18, 2026 Oral Presentation Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
08:30–09:05	Keynote Lecture	Evgeny Naydenkin, <i>Low-temperature superplasticity of ultrafine-grained titanium alloys, produced by severe plastic deformation</i>	Yulia Ivanisenko Nguyen Quang Chinh
09:05–09:25	Oral Presentation	Veronika Polyakova, <i>Superplastic behavior of ultrafine-grained Ti-10-V-2Fe-3Al alloy produced by severe plastic deformation</i>	
09:25–09:45	Oral Presentation	Anastasia V Mikhaylovskaya, <i>Alloying design approach for fine-grained Al-based alloys processed by thermomechanical treatment</i>	
09:45–10:05	Oral Presentation	Dexi Xu, <i>The high strain rate superplasticity of rolled Mg-4Y-3RE magnesium alloy</i>	
10:05–10:25	Coffee Break		
10:25–11:00	Keynote Lecture	Hua Ding, <i>On the superplasticity in a Fe-Mn-Al-C low density steel</i>	Evgeny Naydenkin Xifeng Li
11:00–11:20	Oral Presentation	Wei Fan, <i>On the superplasticity of near-alpha Ti-6Al-3Nb-2Zr-1Mo alloy with bimodal structure</i>	
11:20–11:40	Oral Presentation	Megumi Kawasaki, <i>Lattice-Defect Induced Thermal Behavior of Ultrafine-Grained Copper Examined by Synchrotron X-ray Diffraction</i>	
11:40–12:00	Oral Presentation	Huiyuan Xu, <i>The superplasticity and diffusion bonding with interlayer of Mg-RE alloy</i>	
12:00–14:00	Lunch Break	—	

Day 2 — August 18, 2026 Parallel Sessions Venue: Shenzhen Hall B, 4th Floor

Time	Activity	Speaker and title	Chair
08:30–09:05	Keynote Lecture	Shaosong Jiang, <i>SP700 Titanium alloy Integrated Superplastic forming/Diffusion bonding-Dehydrogenation Technology</i>	Sergey Aksenov Shihong Zhang
09:05–09:25	Oral Presentation	Anna Baryshnikova, <i>Asymmetric rolling as a way to expand the limits of deformation of iron-carbon alloys</i>	
09:25–09:45	Oral Presentation	Matvey Klimov, <i>Manufacturing Mg-boron, Al-boron, Ti-boron composites using the superplasticity effect</i>	
09:45–10:05	Oral Presentation	Ilya Pesin, <i>The combined influence of frictional and speed asymmetry on the stress-strain state of metal during sheet rolling</i>	
10:05–10:25	Coffee Break	—	
10:25–11:00	Keynote Lecture	Elena Bobruk, <i>Features of grain boundaries and mechanisms of low-temperature superplasticity of ultrafine-grained aluminum-based alloys: a critical review</i>	Kaveh Edalati Shaosong Jiang
11:00–11:20	Oral Presentation	Nosov Leonid, <i>Research on the possibility of eliminating technological processes in the production of high-strength packaging tape using asymmetric hot rollin</i>	
11:20–11:40	Oral Presentation	Kumaresan G, <i>Evaluate the strain rate sensitivity of superplastic forming on aluminium metal matrix composite through multi dome test</i>	
11:40–12:00	Oral Presentation	Werner Skrotzki, <i>On the role of grain boundary sliding in nanoplasticity</i>	
12:00–14:00	Lunch Break	—	

Day 2 — August 18, 2026 Oral Presentation Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
14:00–14:35	Keynote Lecture	Xiaoning Han, <i>Factors influencing the performance of SPF/DB structures and their latest research progress</i>	Chengyue Xiong Donato Sorgente
14:35–14:55	Oral Presentation	Olesya Biryukova, <i>The research of strain-gradient formation in Al-Mg bimetallic sheets during asymmetric rolling</i>	
14:55–15:15	Oral Presentation	Alexander Pesin, <i>New Unique Technological Effects of Asymmetric Rolling and Prospects for Industrial Implementation</i>	
15:15–15:35	Oral Presentation	Egor Lukyanov, <i>Investigation of the effect of asymmetric rolling in two-roll and four-roll stands with oblique calibers on the stress-strain state of metal</i>	
15:35–15:55	Oral Presentation	Natalia Lokotunina, <i>Application of asymmetric volumetric deformation for the formation of improved structure and enhanced mechanical properties in long metal products</i>	
15:55–16:15	Coffee Break	—	
16:15–16:50	Keynote Lecture	Shihong Zhang, <i>Extraordinary plasticity of 2195 Al-Li alloy at high strain rates</i>	Anastasia V Mikhaylovskaya Lihua Du
16:50–17:10	Oral Presentation	Qingbo Yang, <i>Effect of Bi and Si Additions on Microstructural Evolution and High-Temperature Tensile Properties of TiB-Reinforced TC4 Titanium Matrix Composites</i>	
17:10–17:30	Oral Presentation	Angela Cusanno, <i>Laser-assisted Gas Incremental Forming (La-GIF) of AZ31 magnesium alloy sheets</i>	
17:30–17:50	Oral Presentation	Tianmin Li, <i>Study on Microstructural Evolution and Deformation Mechanism of HC1100/1470QP High-Strength Steel Based on Hot Processing Maps and Bulging Tests</i>	
18:00–20:00	Dinner	—	

Day 2 — August 18, 2026 Parallel Sessions Venue: Shenzhen Hall B, 4th Floor

Time	Activity	Speaker and title	Chair
14:00–14:35	Keynote Lecture	Werner Beck, <i>Complex geometries and hi-quantity production with hot forming of Titanium</i>	Hua Ding Werner Skrotzki
14:35–14:55	Oral Presentation	Rinat Safiullin, <i>Development of hollow structure manufacturing technology for aerospace applications</i>	
14:55–15:15	Oral Presentation	Jun Liu, <i>A hybrid approach to superplastic forming of titanium alloys for sustainable manufacturing</i>	
15:15–15:35	Oral Presentation	Xinhuan Lou, <i>Superplasticity of Ti750S titanium alloy and SPF/DB numerical simulation of double-layer hollow wavy ribs</i>	
15:35–15:55	Oral Presentation	Md Faiz Akhtar, <i>MD-Informed Anisotropic Phase-Field Modeling of Grain Growth in Polycrystalline Copper</i>	
15:55–16:15	Coffee Break	—	
16:15–16:50	Keynote Lecture	Sergey Aksenov, <i>Mechanical characterization of superplastic materials deformed in uniaxial and biaxial tension conditions</i>	Elena Bobruk Baoyong Li
16:50–17:10	Oral Presentation	Zheng Han, <i>Numerical simulation and verification of SPF process for 5A06 multi-channel curved surface heat dissipation structure</i>	
17:10–17:30	Oral Presentation	Jiahui Wang, <i>Numerical Simulation and Experimental Study on the Forming of Complex Components in MnE21 Magnesium Alloy</i>	
17:30–17:50	Oral Presentation	Muqi Sun, <i>Rapid Prediction of Thickness Distribution for Superplastic Forming Conical Part Based on BP Neural Network</i>	
18:00–20:00	Dinner	—	

Day 3 — August 19, 2026 Oral Presentation Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
08:30–09:05	Keynote Lecture	Yves Marcel, <i>Insights into surface aging and thermomechanical distortion of superplastic forming tooling for improved durability</i>	Minghui Cai Sergey Zharebtsov
09:05–09:25	Oral Presentation	Denis Pustovoytov, <i>Grain refinement during asymmetric sheet rolling of low-carbon steel in the intercritical temperature range of phase transformation</i>	
09:25–09:45	Oral Presentation	Yifeng Dai, <i>The influence of grain structure on the superplastic deformation behavior of 5083 aluminum alloy</i>	
09:45–10:05	Oral Presentation	Nagore Otegi, <i>Exploring the Potential of Bio-inspired Surface Replication on Aluminium via Superplastic Forming</i>	
10:05–10:25	Coffee Break	—	
10:25–10:50	Invited Lecture	Guoqing Chen, <i>Deformation behavior and mechanical anisotropy of ZrB2-based ceramic</i>	Yves Marcel Yong Wu
10:50–11:10	Oral Presentation	Boris Straumal, <i>Grain refinement and phase transformations in titanium alloys driven by the high pressure torsion</i>	
11:10-11:30	Oral Presentation	Shuwei Ji, <i>The mechanism of thermal deformation coordination and voids emerging at the interface of diffusion-bonded Ti6Al4V</i>	
11:30-11:50	Oral Presentation	Ganeev Artur V., <i>The scaling effect on the mechanical properties of the ultrafine-grained FeCoCrNiMn high entropy alloy with nitrogen doped</i>	
12:00–14:00	Lunch Break	—	

Day 3 — August 19, 2026 Oral Presentation Venue: Shanghai Hall, 4th Floor

Time	Activity	Speaker and title	Chair
14:00–14:35	Keynote Lecture	Lihua Du, <i>Research on Superplastic Forming of Sheet Metal Using Infrared Radiation Heating</i>	
14:35–14:55	Oral Presentation	Xiaoyu Zhang, <i>Rivetless Superplastic Forming Technology for 5083 Aluminum Alloy</i>	Guoqing Chen Werner Beck
14:55–15:15	Oral Presentation	Xiaoting Xu, <i>An Experimental and Simulation Study of Mo-Modulated Strength–Ductility Balance and High-Temperature Strength in TiZrNb based Alloys</i>	
15:15–15:35	Oral Presentation	Tongxu Zhou, <i>Investigation on cryogenic superplastic deformation behavior of ultrafine-grained TC4 titanium alloy</i>	
15:35–15:55	Oral Presentation	Chunxu Wang, <i>Advances in the Application of Superplastic Forming Technology for Manufacturing Complex Components in Rail Transit</i>	
15:55–16:30	Award & Closing Ceremony	—	

Day 4 — August 20, 2026 Industrial travel 08:30–18:00