

Magnitogorsk Materials Week 2021 conference program

Dates: November 29 – December 3, 2021

Megumi Kawasaki, Professor of Oregon State University (Oregon, USA), Lead Scientist under the project funded by the Russian Science Foundation (Agreement 20-69-46042 dated May 20, 2020)

Klaus-Dieter Liss, Professor of the Guangdong Technion – Israel Institute of Technology (GTIIT) in Shantou (Guangdong, China), Lead Scientist under the project funded by the Russian Science Foundation (Agreement 20-69-46042 dated May 20, 2020)

Alexander G. Rakoch, Professor of NUST MISIS (Moscow, Russia), Lead Scientist under the project funded by the Russian Science Foundation (Agreement 20-69-46042 dated May 20, 2020)

Sergey P. Galkin, Professor of NUST MISIS (Moscow, Russia), Lead Scientist under the project funded by the Russian Science Foundation (Agreement 20-69-46042 dated May 20, 2020)

Georgy I. Raab, Chief Researcher of Ufa State Aviation Technical University (Ufa, Russia), Lead Scientist under the Megagrant (No. 075-15-2021-627 dated June 08, 2021).

Description	Time
November 29, 2021	
Conference opening speech by Alexander M. Pesin	$10^{00} - 10^{05}$
Welcome speech of the Vice-Rector for Research and Innovation, NMSTU (Oleg N. Tulupov)	$10^{05} - 10^{10}$
Welcome speech of the Vice-Rector for International Affairs, NMSTU (Alexey G. Korchunov)	$10^{10} - 10^{15}$
Lecture on “Severe plastic deformation: features and prospects” (Georgy I. Raab)	$10^{15} - 10^{45}$
Lecture on “Fulfilling innovative potential of radial-displacement rolling” (general lecture) (Sergey P. Galkin)	$10^{50} - 11^{50}$
Lecture on “Plasma electrolytic treatment of products from light structural alloys” (Alexander G. Rakoch)	$12^{00} - 13^{00}$
November 30, 2021	
Opening of the second day of the conference (Alexander M. Pesin)	$10^{00} - 10^{10}$
Lecture on “Theoretical framework of radial-displacement rolling” (Sergey P. Galkin)	$10^{15} - 11^{15}$
Lecture on “Plasma electrolytic treatment of products from light structural alloys” (Alexander G. Rakoch)	$11^{20} - 12^{20}$
Break	$12^{20} - 14^{00}$
Report based on the thesis (Denis O. Pustovoytov)	$14^{00} - 15^{00}$
December 1, 2021	
Opening of the third day of the conference (Alexander M. Pesin)	$10^{00} - 10^{10}$
Lecture on “Radial-displacement rolling of metals and alloys of various compositions and applications”	$10^{15} - 11^{15}$

Description	Time
(Sergey P. Galkin)	
Lecture on “Plasma electrolytic treatment of products from light structural alloys” (Alexander G. Rakoch)	11 ²⁰ – 12 ²⁰
Lecture on “The first interesting results achieved on asymmetrical rolling mill 400 at the Zhilyaev Laboratory of Mechanics of Gradient Nanomaterials” (Alexander M. Pesin)	12 ²⁵ – 13 ⁰⁰
Break	13 ⁰⁰ – 14 ⁵⁰
Workshop on asymmetrical rolling on mill 400 at the Zhilyaev Laboratory of Mechanics of Gradient Nanomaterials	15 ⁰⁰ – 16 ⁰⁰
December 2, 2021	
Opening of the fourth day of the conference (Alexander M. Pesin)	10 ⁰⁰ – 10 ¹⁰
Lecture on “Industrial radial-displacement rolling mills for efficient production of rolled products from titanium, zirconium and other alloys of critical applications” (Sergey P. Galkin)	10 ¹⁵ – 11 ¹⁵
Lecture on “Plasma electrolytic treatment of products from light structural alloys” (Alexander G. Rakoch)	11 ²⁰ – 12 ²⁰
Lecture on “Size effect on microstructural evolution and micromechanical responses of mechanically bonded aluminum and magnesium by high-pressure torsion” (Megumi Kawasaki)	12 ²⁵ – 13 ⁰⁰
December 3, 2021	
Opening of the fifth day of the conference (Alexander M. Pesin)	10 ⁰⁰ – 10 ¹⁰
Lecture on “Applying radial-displacement rolling in special technologies of plastic deformation. Recycling, nano- and gradient structuring, preliminary reduction of concast billets, when producing seamless tubes” (Sergey P. Galkin)	10 ¹⁵ – 11 ¹⁵
Lecture on “Fundamentals of electrochemical corrosion of metallic materials” (Alexander G. Rakoch)	11 ²⁰ – 12 ²⁰
Lecture “On the thermal evolution of high-pressure torsion processed titanium aluminide” (Klaus-Dieter Liss)	12 ²⁵ – 13 ⁰⁰
Conference closing speech by Alexander M. Pesin	13 ⁰⁰ – 13 ¹⁰