**Interstate Association Titan**

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**Sponsors of the Conference**

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**AGENDA of the**

**XVII INTERNATIONAL CONFERENCE**

**‘Ti-2019 in CIS’**

**17-20 April 2019**

**Sea Galaxy Congress & Spa Hotel, Sochi**

Conference languages: Russian, English (simultaneous translation)

**17.04.2019**

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| **15:00–19:00** | Registration of the Conference participants. **Sea Galaxy Congress & Spa Hotel, Sochi** |
| **19:00–22:00** | An opening dinner for the Conference participants. |

**18.04.2019**

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| **08:00–09:00** | Registration of the Conference participants. **Sea Galaxy Congress & Spa Hotel, Sochi** |
| **10:00-13:30** | Excursion program for Conference guests |

**Plenary session 1.**

**Sea Galaxy Congress & Spa Hotel, Sochi - Congress Hall**

**Chairperson - Candidate of Science (Engineering) Andrey Alexandrov**

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| **09:00** | Opening of the Conference**A. Alexandrov**Interstate Association TitanThe most significant works and titanium market developments in CIS |
| **09:20** | **A. Oryschenko, V. Leonov**NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’Titanium materials development prospects for shipbuilding and nuclear power industry |
| **09:40** | **O. Leder, D. Kurochkin, M. Alabusheva**VSMPO-AVISMA CorporationConditions of the titanium world market and its development trends |
| **10:00** | **O. Leder, D. Kurochkin, M. Alabusheva**VSMPO-AVISMA CorporationTitanium market in Russia and CIS |
| **10:20** | **L. Bykhovsky, M. Zenchenko, L. Remizova**FGBU (Federal State Budgetary Institution) ‘VIMS’Creation of ore base of titanium raw materials in Russia |
| **10:40** | **T. Okholina, Remezova E., Naumenko U., Vasilenko S., Kuzmanenko G., Yaremenko O.,** **Alexandrov A.L.**Geological Sciences Institute, NAS of UkraineA new approach to the Torchinsky residual deposit development (Ukrainian shield) |
| **11:00** | **Break** |

 **Plenary session 2.**

**Sea Galaxy Congress & Spa Hotel, Sochi - Congress Hall**

**Chairperson - Doctor of Science (Engineering), Prof. Mikhail Kollerov**

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| **11:30** | **A. Oryschenko1, V. Leonov1, A. Kudryavstev1, M. Leder2** 1 NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’2 VSMPO-AVISMA CorporationDevelopment of a new high-strength pseudo-β-titanium alloy |
| **11:45** | **He Zhijun**Kunming Iron & Steel Group Co. Ltd.The current titanium market situation in China and development strategy of KISС |
| **12:00** | **S. Kuznetsov**CEBT LLCPrincipal technological solutions of products manufacturing by the method of "granular metallurgy" from Ti; Ni – alloys and special steels |
| **12:15** | **A. Perevozov**Stupino Metallurgical Company Powders, obtained by the PREP method used for additive technology and HIP |
| **12:30** | **M. Kollerov1, D. Gusev1, A. Alexandrov2, A. Sharonov1**1 Moscow Aviation Institute (National Research University)2 Interstate Association TitanInfluence of chemical composition, smelting method and the semi-finished product treatment technology on the characteristics of the titanium nickelide shape memory effect |
| **12:45** | **V. Leonov1 , I. Schastlivaya1, I. Tretyakov1, A. Askinasi1** NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’Theoretical and experimental basis for creation of titanium alloys with increased thermal conductivity |

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| **13:00–14:00** | **Lunch** |

**Plenary session 3.**

**Sea Galaxy Congress & Spa Hotel, Sochi - Congress Hall**

**Chairperson - Doctor of Science (Engineering), Prof. A. Mamonov**

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| **14:00** | **V. Soklakov1,  Pietka Gregorz Wojciech2** 1 - SGL Carbon GmbH2 - SGL Graphite Solutions Polska Sp. z o.oSpecialty graphites and carbon-carbon materials for vacuum heat-treatment furnaces |
| **14:15** | **Spitans Sergejs, Franz Henrik**ALD Vacuum Technologies Numerical modelling of Titanium ingot growth during the Vacuum Arc Remelting (VAR) |
| **14:30** | **A. Sukhov**Regional Center for Laser Technology Titanium alloys laser treatment technology development and its industrial application in the manufacture of high-precision large-size structures for special purposes |
| **14:45** | **S. Rush1, A. Sosedov1, Łukasz Chwiałkowski 2**1- SECO/WARWICK RUS2- SECO/WARWICK S. A.Heat treatment of Titanium in vacuum furnaces |
| **15:00** | **A. Mamonov, S. Slezov, S. Sarychev**Moscow Aviation Institute (National Research University)Innovative processing technology for the large-joint implants and powered surgical instruments made from titanium alloys |
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| **15:15** | **Break** |

**Plenary session 4.**

**Sea Galaxy Congress & Spa Hotel, Sochi - Congress Hall**

**Chairperson - Candidate of Science (Engineering) Anatoly Kudryavtsev**

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| **15:45** | **M. Buzenkov, S. Shytov, A. Granovsky**AviaLit Scientific Production Center LLCManufacture of investment castings from magnesium alloys |
| **16:00** | **A. Koltygin, V. Bazhenov, A. Anischenko, R. Khasenova, V. Belov**MISIS National Research and Technological UniversityImpact of ECAP (Equal Channel Angular Extrusion) on the structure, mechanical and corrosion properties of biodegradable Mg-Zn-Ca and Mg-Zn-Ca-Mn alloys |
| **16:15** | **Spitans Sergejs, Franz Henrik**ALD Vacuum TechnologiesOptimisation of EIGA atomization process using numerical modelling |
| **16:30** | **A. Alexandrov**CEBT LLCNew advances in the granules production using PREP method |
| **16:45** | **S. Osipov**CEBT LLCGranulation metallurgy equipment and technologies |

**19.04.2019**

**Plenary session 5.**

**Sea Galaxy Congress & Spa Hotel, Sochi - Panorama Hall**

**Section on Materials Science for Titanium and Titanium Alloys**

**Chairperson - Candidate of Science (Engineering) Vsevolod Travin**

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| **09:30** | **A. Zhelnina, N. Schetnikov, M. Kalienko, A. Trubochkin, M. Leder, A. Illarionov** VSMPO-AVISMA CorporationInfluence of carbon on microstructure evolution and mechanical properties of the 10-2-3 alloy |
| **09:45** | **V. Travin, A. Zmozhny, G. Shevelev**Kaluga Turbine Plant Steam Turbine Titanium Details Combustion as a Single Case. Analysis and Fire Prevention |
| **10:00** | **А.Kudryavtsev1, А. Khachaturyan1, N. Zlobina1, V. Kropotov2**1 NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’2 VSMPO-AVISMA CorporationForging and solid-rolled rings manufacturing technology from marine-grade titanium alloys on the new ring-roller mill |
| **10:15** | **P. Panin, N. Nochovnaja, E. Alexeev, A. Yakovlev, D. Dzunovich, K. Speransky**VIAM Federal State Unitary EnterpriseStudy of a new beta-solidifying TiAl-alloy of variable composition in the as-cast state |
| **10:30** | **V. Lеonov1, L. Rtischeva1, V. Kopylov1, P. Krylov1, M. Lukin2, D. Negodin2** 1 NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’2 Chepetsky Mechanical Plant Study of the fine-grain structure forming in tubular billets made of the PT-7M alloy for manufacturing cold-sized tubes with augmented mechanical performance |
| **10:45** | **A. Kudryavtsev1, N. Tretyakova1, V. Kulik1, V. Dukhtanov2, N. Schetnikov2**1 NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’2 VSMPO-AVISMA CorporationHardenability of pseudo-β-type titanium alloys of the VST 5553 type |
| **11:00** | **A. Pankratov, M. Leder, A. Volkov** VSMPO-AVISMA Corporation Features of structure and morphology of the titanium heat-resistant alloy’s fractures hardened with borides |
| **11:15** | **S. Skvortsova, M. German, E. Zhurbina, E. Lukina**Moscow Aviation Institute (National Research University) Federal State Budgetary Educational Institution of Higher EducationInfluence of the 3D-printing method on the structure and properties of samples from the Ti-6Al-4V titanium alloy |
| **11:30** | **V. Leonov1, L. Rtischeva1, K. Martynov1, V. Kopylov1, S. Zherebtsov2, D. Negodin3**1 NRC ‘Kurchatov Institute’ - CRISM ‘Prometey’2 NRU of Belarus State University3 Chepetsky Mechanical PlantStudy of diffusion processes in titanium alloys in hot extrusion using copper sub-lubricant layer |
| **11:45** | **Aleksandrov A., Konshin R., Ziganshin A.**Chepetsky Mechanical Plant Smelting of experimental industrial ingots of a new domestic deformable intermetallic titanium ortho-alloy |
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| **12:00–13:00** | **Lunch** |
| **13:00–19:00** | **Excursion program for Conference participants and guests** |
| **14:00–16:00** | **The annual meeting of the Interstate Association Titan. Panorama Hall** |

**Poster presentations**

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| **1** | **O. Gvozdeva1, A. Volodin2, A. Stepushin1, G. Zaynetdinova1, E. Agarkova1**1 - Moscow Aviation Institute (National Research University) Federal State Budgetary Educational Institution of Higher Education, Department of Metallurgy and Heat Treatment of Metals2 - Normal Impact of chemical composition and heat treatment on the structure and properties of semi-finished products made from pseudo-β--titanium alloy |
| **2** | **A. Shalin, A. Ivanov, A. Orlov, F. Makarov**Moscow Aviation Institute (National Research University) Federal State Budgetary Educational Institution of Higher EducationComparison of deformability (α+β)-titanium alloys at room temperature depending on the modes of heat treatment |
| **3** | **Yu. Egorova1, S. Skvortsova1, L. Davydenko2, O. Gvozdeva, E. Chibisova**1 Moscow Aviation Institute (National Research University) Federal State Budgetary Educational Institution of Higher Education2 Moscow Polytechnic University Federal State Budgetary Educational Institution of Higher EducationPrediction of mechanical properties of the VT6 alloy bars depending on chemical composition and annealing modes |