



Federal Research Center
"Krasnoyarsk Science Center of the Siberian
Branch of the Russian Academy of Sciences"



RUSSIAN AND
INTERNATIONAL UNION
OF SCIENTIFIC AND
ENGINEERING ASSOCIATIONS



ONLINE SESSION PROGRAMME
**II International Conference on Advances in Materials, Systems
and Technologies - CAMSTech-II 2021**

**II International Scientific Workshop «Advances in Materials Sciences» - “AMS-II -
2021”**

(Krasnoyarsk, Russia, 30 July 2021)

Zoom

<https://us02web.zoom.us/meeting/register/tZcuc-qvrDMoH92fh9W5t1roJBqCL0iPe-us>

Online reports of the participants

Chemical Characterization of Sri Lankan Dolomite for Waste Water Treatments	Suresh Aluvihara	Department of Chemical and Process Engineering, University of Peradeniya, Peradeniya, Sri Lanka
Determination of optimal modes of the process of milling mammoth ivory on a CNC machine	Gleb V. Botvin	Federal Research Centre “The Yakut Scientific Centre of the Siberian Branch of the Russian Academy of Sciences”
Electron Microscope Studies of the 01Cr17Ni13Mo3 Austenitic Steel Structure After Cold Rolling Combined with Hydrogen Alloying with Varying Degrees of Deformation	Tatiana Kozlova	Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia
Process Relationship in High-Stress Friction Coupled with Complex Shaped Counterbody and Friction Stir Welding Al-Mg-Sc-Zr Alloy	Andrey Chumaevskii	Institute of Strength Physics and Materials Sciences, SB RAS, Tomsk, Russia
Obtaining of copper- and nickel-based polymetallic gradient products by wire-feed electron beam additive technology	Andrey Chumaevskii	Institute of Strength Physics and Materials Sciences, SB RAS, Tomsk, Russia
Fabrication of conically shaped CuCr1 chrome bronze products by wire feed electron beam additive manufacturing	Anastasiya Gusarova	ISPMS SB RAS, Tomsk, Russia
Use of Waste Petroleum Coke as a Fuel and Reducing Agent in the Production of Binding Materials	Anton Suslikov	Ufa State Petroleum Technical University, Branch of the University in the City of Salavat, Salavat, Russian Federation

Overview of graphic processor architectures in medical problems	Bakhtiyar Rakhimov	Urgench branch of Tashkent Medical Academy, Uzbekistan
Graph-analytical study of a tooth-lever differential transmission mechanism	Abdusalam Abdukarimov	Institute of Mechanics and Seismic Stability of Structures named after M.T. Urazbaev of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan
Analysis of a two-roll module with an arcuate displacement of the center of rotation of the movable shaft	Abdusalam Abdukarimov	Institute of Mechanics and Seismic Stability of Structures named after M.T. Urazbaev of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan
Fuel supply system with the function of improving the quality of low-grade solid fuel	Roman Kondratev	NNGASU, N. Novgorod, Russia
crystal chemistry of anisotropy of magnetic properties of a powder material of an alloy of the Fe-Nd-B system obtained by quenching from a liquid state by sputtering a melt jet with an inert gas stream (gas atomization)	Valeriy Savin	Immanuel Kant Baltic Federal University
The Influence of Microwave Calcination Technological Parameters on Dechlorination of Zinc-Containing Materials	Andrei Ryazanov	South Ural State University, Chelyabinsk, Russia
Nanocomposite superconductors for low loss filter design	Maria Golovkina	Povolzhskiy State University of Telecommunications and Informatics, Samara, Russia
Comparative analysis of the influence of microstructure defects of hard alloy on crack resistance	Alexander Zhadyaev	Samara State Technical University; «Volgaburmash» JSC, Samara, Russia
Oxide Aluminum Coatings by the Sol-Gel Method on Carbon Fibers	Rida Gallyamova	Ufa Institute of Chemistry UFRC of the RAS, Ufa, Russian Federation
Electroplating of Indium-Cadmium and Tin-Cadmium Alloy Coatings	Alfiya Yangurazova	Penza State University, Penza, Russian Federation
Review of the parametric analysis of the operation of milling the edges of parts on a robotic complex	Elizaveta Baksheeva	Irkutsk National Research Technical University, Irkutsk, RF
Investigation of the dependence of the aircraft functions and mathematical modeling of the data streams of the SCU	Lyudmila Chizhikova	LLC Laboratory of Scientific and Applied Research and Development for Aviation, Moscow, Russia
Enterprise Intellectual Capital Management: Focusing on Extra Profit	Nikolay Dmitriev	Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

The structure and problems of analysis of transaction costs of participants in the Russian market of tourist services	Victor Plowman	MOBU "Suzanovskaya secondary school" Novosergievsky district, Orenburg region, Russia
Problems in the application of criminal punishment: the death penalty	Sergey Goncharov	College of Professional Education Perm State National Research University, Perm, Russia
Formation of vocational schools in the Orenburg region in the late 1950s and early 1960s	Yulia Khakimullina	Orenburg State Pedagogical University, Orenburg, Russia

Videoreports of the participants

Software and instrumental complex for decision-making on environmental protection from technogenic factors	N. Ravshanov, N.U. Narzullayeva, N.N. Tashtemirova, F.A. Muradov and Y.N. Islamov	Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Samarkand Branch Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Samarkand, Uzbekistan; Tashkent pediatric medical institute, Tashkent, Uzbekistan; Tashkent chemical-technological Institute, Tashkent, Uzbekistan; Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan
The Location of Hidden Process in Structure of Building	Nikolay Dorofeev, Anastasya Grecheneva and Ekaterina Pankina	Vladimir State University, Murom, Russian Federation
The algorithm for early detection of defects at construction objects	Nikolay Dorofeev, Anastasya Grecheneva and Ekaterina Pankina	Vladimir State University, Murom, Russian Federation
Modeling the stress-strain state of plates in a form of Reuleaux Triangle Profile during grinding of plastic materials	D.A. Krivov	Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia
Metrological analysis of the relationship model between the properties of piezoelectric materials	E. A. Pecherskaya, A. V. Fimin, V. S. Alexandrov, Y. A. Varenik, A. V. Volik, A. I. Levin	Penza State University, Penza, Russia
Homogenization modes effect on mechanical properties and corrosive characteristics of the rolled products from Al-Mg (1570) aluminum alloy with addition of scandium and zirconium	A A Ragazin	Samara University, Samara, Russia
Chemical Characterization of Sri Lankan Dolomite for Waste Water Treatments	Suresh Aluvihara	Department of Chemical and Process Engineering, University of Peradeniya, Peradeniya, Sri Lanka
Mathematical simulation of the control system of a small-sized two-link caterpillar forest machine	D. V. Chernik and K.N. Chernik	Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia