2022 国际产学研用合作会议哈尔滨工程大学 极地科学与技术论坛 暨第二届极地装备与技术创新论坛

Forum on Polar Science and Technology of 2022 International Conference on the Cooperation and Integration of Industry, Education, Research and Application and Second Innovation Forum on Polar Equipment and Technology of Harbin Engineering University

会议日程 Program



Host Organizations:

Harbin Engineering University

China-Russia Polar Technology and Equipment "One Belt- One Road" Joint Laboratory International Cooperation in Ship and Ocean Engineering Technology Joint Laboratory



Date and Time			Schedule		Address
(GMT +08:00)				Host	
	14:55	Opening Video			
	15:00-15:10	Chinese Guest Speeches			Qihang,
		Yu Zhiwen,		Fan Zhaobing	Teacher
		Vice President of		Director of the	Salon,
		Harbin Engineering University		International	Harbin
		Russian Guest Speeches		Exchange Office,	Engineering
	15:10-15:20	Pinsky Alexander,		Harbin Engineering	University;
	13.10 13.20	Chairman of	the Board of Supervisors,	University	ZOOM
		Marinet I	ndustry Center, Russia		ID:821 2203
	15:20-15:25	The host announces the beginning of the			9146
	10.20 10.20	forum			
			Keynote Speeches		
			Alexander V. Andryushin		
		Knotty issues	Professor of Central Marine		
	15:25-15:50	of modern	Research & Design		
		arctic double-	Institute,		
28th,Oct. (Friday)		acting ships	Head of the laboratory		
(Filliay)		design	"Propulsion complexes of		
			ships"		
	15:50-16:15	Research on			
		the method of	Senkevich Yuri Igorevich,	Ni Baoyu,	
		receiving low -	Chief researcher of the	Vice Dean of College	
		frequency and	Institute of Cosmophysics	of Shipbuilding	
		ultra -low -	and Radio Wave	Engineering, Harbin	
		frequency signals using	Propagation, Far Eastern Branch of the Russian	Engineering University	
		the reservoir's	Academy of Sciences	Oniversity	
		ice cover	Academy of Sciences		
		Perovskite			
	16:15-16:40	optoelectronic			
		devices	Sergey Makarov, Professor		
		improved by	of ITMO University		
		nanophotonics			
	16:40-17:05	Developing the			
	16:40-17:05	Developing the			

	economy of the northern territories by integrating production, education, innovations, and their implementation to promote the northward openness and development of Heilongjiang Province A new chapter	Gao Tiann Professor of l Engineering Ui	Harbin			
17:05-17:30	of opening-up for cooperation and development Promoting the upgrading strategy of the Pilot Free Trade Zone and building a new plateau of opening-up to the North	Zhang Jian Deputy Director Area Administr China (Heilongji Free Trade	of Harbin ration of ang) Pilot			
17:30-18:00			Break			
18:00-21:30	Invited Experts Speeches Sub-forum 1: Polar Ship; Zoom ID: 821 2203 9146	Invited Experts Speeches Sub-forum 2: Polar Communication and Navigation; Zoom ID: 831 3010 9289	Spec Sub-fo Polar Equipn Adapt Zoom ID:	I Experts eeches forum 3: Power ment and tability; 1859 9502 1859 1859 1850		r Physics; D: 857 8692

Sub-forum 1: Polar Ship

28th, Oct., Zoom ID: 821 2203 9146

Beijing						
Time	Invited Experts Speeches	Reporters	Host			
18:00-18:20	Energetical methodology for determining the calculated parameters of cyclic ice load on offshore structures	Tsuprik Vladimir Grigoryevich, Professor of Far Eastern Federal University				
18:20-18:40	Durability of marine concrete in cold region	Kim LEV, Associate Professor of Far Eastern Federal University	Lu Yang,			
18:40-19:00	Induction heating system for technological objects with temperature-dependent fluids	Khlyupin Pavel Aleksandrovich, Professor of Ufa State Petroleum Technological University	Associate Professor, Harbin Engineering University			
19:00-19:20	Methodological basis for the calculation of ice loads acting on the icebreaker hull based on a new model of ice dynamic fracture	Tryaskin Vladizir Nikolaevich, Professor of St. Petersburg State University of Marine Technology; Platonov Viktor Viktorovich Professor of Krylov State Research Center				
19:20-19:50		Break				
19:50-20:10	Recovery method of local ice load in hull structure strain measurement	Timofeev O. Ya Professor of St. Petersburg State University of Marine Technology				
20:10-20:30	Study on freezing law and parameter optimization of hot rod foundation pit in severe cold area	Li Liang Professor of Harbin Institute of Technology	Wang Chunhui, Associate Professor,			
20:30-20:50	Hydrogeology of reclaimed floodplain in a permafrost area, Yakutsk, Russia (Video)	Pavlova Nadezhda Anatolyevna, Professor of Northeast Federal University	Harbin Engineering University			
20:50-21:10	Exploring and Reflecting on Water Resources Issues in Northeast China and the Russian Far East (Video)	Dai Changlei Dean/Professor of Heilongjiang University				

Sub-forum 2:

Polar Communication and Navigation 28th, Oct., Zoom ID: 831 3010 9289

Beijing Time	Invited Experts Speeches	Reporters	Host	
18:00-18:20	Modeling of a hydroacoustic communication system in a shallow sea in Arctic conditions	Vladimir Korochentsev Professor of Far Eastern Federal University /Member of the Russian Academy of Natural Sciences		
18:20-18:40	Ice belt and path are the conditions for building ecological civilization	Vladimir N. Bocharnikov Professor / Principal Investigator of Pacific Geography of the Far Eastern Branch of the Russian Academy of Sciences	Liu Ruizhi, Associate Professor, Harbin Engineering University	
18:40-19:00	Problems of import substitution in the Arctic regions, major investment projects under sanctions, new regional specializations in the Arctic energy transition (hydrogen) (report based on the results of the group's work to the North Group of the Expert Council under the Government of the Russian Federation).	Alexander Kotov, Associate Professor/Senior Researcher, Institute of European Studies/Russian Academy of Sciences		
19:00-19:20	Meteor communication network for the Northern Sea Route	Sergey Makarov, Professor of Peter the Great St. Petersburg Polytechnic University / Academician of the Russian Academy of Engineering		
19:20-19:50				
19:50-20:10	Development of oil and gas fields on the Arctic continental shelf	Svetlana Razmanova, Principal Investigator/Professor, Department of Geology and Oilfield Development, Gazprom VNIIGAZ Branch, Ukhta	Zhang	
20:10-20:30	Nonlinear analysis of electromagnetic compatibility (EMC) of arctic communication and navigation systems	Vladimir Mordachev Leading Researcher, Scientific supervisor of EMC R&D Laboratory; Eugene Sinkevich Senior Researcher, Head of EMC R&D Laboratory, Belarusian state university of informatics and radioelectronics, Minsk, Belarus	Yuxiang, Professor, Harbin Engineering University	
20:30-20:50	Autonomous navigation	Vladimir Yakunchikov, Professor of Russian Transport University		

Sub-forum 3: Polar Power Equipment and Adaptability 28th, Oct., Zoom ID: 859 9502 7243

Beijing Time	Invited Experts Speeches	Reporters	Host	
18:00-18:20	Application of aluminum alloys in the production of machine-building parts	Nodir Turakhodjaev, Professor of Tashkent State Technical University		
18:20-18:40	Prospects of mathematical modeling in the development of promising alloys for foundry production (general engineering)	K. Karimov, Professor of Tashkent State Technical University	Tong Yunxiang, Professor,	
18:40-19:00	Self-assembly of nanostructures at plasma-electrolyte coatings formation	Boris Krit, Professor of Moscow Aviation Institute	Harbin Engineering University	
19:00-19:20	Functional matrix coatings on aluminum based on spatially ordered nanostructures	Gorokh Gennady, Head of Research Laboratory of Nanotechnologies, Belarus State Technical University		
19:20-19:50				
19:50-20:10	Neutron diffraction studies of functional alloys and materials	R.N. Vasin, Senior scientist of Institute for Nuclear Research in Dubna, Russia		
20:10-20:30	Microstructure and mechanical properties of ultrafine-grained gradient Mg-Gd-Zr alloy	Chen Xianhua, Professor of Chongqing University	Guan Ben,	
20:30-20:50	Design and Application of Ship Propulsion System Matching Platform with Diesel Engines	Ding Yu, Professor of Harbin Engineering University	Associate Professor, Harbin Engineering	
20:50-21:10	Structure and properties of Al-Co- Cr-Fe-Ni and Co-Cr-Fe-Mn-Ni high-entropy alloys, fabricated by wire-arc additive manufacturing technology (Video)	Sergey Konovalov, Academician/Professor of Samara National Research University	University	

Sub-forum 4: Polar Physics

28th, Oct., Zoom ID: 857 8692 4808

Beijing Time	Invited Experts Speeches	Reporters	Host
18:00-18:20	Halide-Perovskite Light-Emitting Photodetector	Marunchenko Alexander, Ph.D., ITMO University	
18:20-18:40	Resonant periodic Light-Emitting structures based on thin films of CdSe-based core/shell nanoplatelets	Ruslan Azizov, Ph.D., ITMO University	Song Mingzhao, Associate Professor, Harbin
18:40-19:00	Hybrid Metal-Dielectric Nanophotonics	Zuev Dmitry, Associate Professor, ITMO University	Engineering University
19:00-19:20	Recent progress on topological photonics	Dmitry Zhirihin, Lecturer, ITMO University	
19:20-19:50			
19:50-20:10	Perovskite solar cells	Alexandra Furasov, Lecturer, ITMO University	
20:10-20:30	Single halide perovskite nanowire laser for HCl gas detection	Pushkarev Anatoly, Associate Professor, ITMO University	Makarov
20:30-20:50	Semitransparent light-emitting electrochemical cells with acid functionalized multi-wall carbon nanotubes as a top electrode	Bodyago Elena, Ph.D., ITMO University	Sergey, Professor, Harbin Engineering
20:50-21:10	Halide Perovskite Nanocrystals with Enhanced Water Stability	Lev Zelenkov, Lecturer, ITMO University	University
21:10-21:30	Lasers application for material synthesis	Lev Logunov, Lecturer, ITMO University	

