



**КРАН911**



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- AB Administrative Building
- LB Library Building
- CC Computing Centre
- MB Main Building
- MCB Main Classroom Building
- EEB Electro Engineering Building
- EB Engineering Building
- C Canteen
- LB Laboratory Building
- MIB Mathematics Building
- RB Radio Electronic Building
- TB Technology Building
- U-1 Educational Building U-1
- U-2 Educational Building U-2
- PB Physics Building
- CB Chemistry Building

To participate in the conference you need to fill in the electronic registration form:  
<https://goo.gl/forms/GEHLWD7gsQfRLdd82>



To publish their contributions in the Transactions, the participants of the Conference are required to pay the organization fee. The organization fee covers all the expenses relating to the publishing of the abstracts of conference papers and all conference arrangements (executions, coffee-breaks, and the banquet)

There are two options for participation in the conference:

- Direct participation: publishing the abstracts of conference papers (maximum two pages), getting a copy of the Transactions with the abstracts of conference papers, the conference participant certificate and the site for the presentation of exposition materials. The cost is 500 UAH (Hryvnas);
- Distance participation: The participants are invited to publish the abstract of their reports and get the e-version of the Transactions. The cost is 50 UAH per page.;
- Partner's participation in the conference is free.

**Abstract Guidelines:** The authors are invited to submit a one or two-page abstract. The abstract should interpret clearly the content and relevance of the proposed research contribution. Please, send your contribution to the following email ([smart.ptm2019@gmail.com](mailto:smart.ptm2019@gmail.com)). The authors are recommended to use \*.docx, \*.doc, or \*.pdf as the file format.

**Paper Guidelines:** Full scientific papers of 3 to 10 pages will be reviewed by experts. Only approved scientific papers will be included in the Transactions that will be published after the actual conference. The extra page charge will be collected.

#### Imported Dates

**August 1, 2019** - Confirming participation deadline.  
**August 1, 2019** - Abstract submission deadline.

All the participants will be provided with the presentation site for the exhibiting of their products and services

#### Conference Timetable

**September 4, 2019**

Day of arrival, an introduction to the university and department, a city tour and excursions to leading manufacturers in Kharkiv

**September 5, 2019**

07:45 - 08:30 - registration

08:30 - 13:00 - general session

13:00 - 14:00 - dinner

14:00 - 18:00 - exhibitions and round table discussions

19:00 - banquet and closing ceremony

**September 6, 2019**

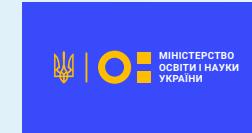
Day of departure

Conference program may be subject to minor changes.

Ministry of Education and Science  
of Ukraine

National Technical University  
«Kharkiv Polytechnic Institute»

Lifting and Transporting Academy  
of Sciences of Ukraine



Welcome to  
**Logistics Forum**  
**International Research**  
**Hands-On Conference**  
**«Smart Handling Systems**  
**in Logistics»**



September 4-6, 2019  
Kharkiv

## Conference Organizer

National Technical University  
«Kharkiv Polytechnic Institute»

## Program Committee

Andriy Marchenko (Head of Committee)

Bela Illes

Dmytro Volontsevych

Otto Hryhorov

Nicolae Ilias

Andre Katterfeld

Valentyn Kovalenko

Volodymyr Semenyuk

Jerzy Sladek

## Organizing Committee

Heorhiy Lisachuk (Head of Committee)

Oleksandr Honcharov

Vitaliy Yepifanov

Larysa Semenenko

Leonid Tyzhnenko

## Conference Co-organizers

Ministry of Education and Science of Ukraine  
Lifting and Transporting Academy of Sciences of Ukraine  
Naukovo-tehnichna asociaciya «Pidymni Sporudy»  
Otto von Guericke University Magdeburg  
Tadeusz Kosciuszko University of Technology  
University of Petrosani  
University of Miskolc  
Binzel Ukraine GmbH  
TOV «NVC Yevropeys'ki tehnologii mahinobuduvannya»  
TOV «RMK «KRAN 911»  
TOV «Kranovyi elektropyvod»  
TOV «MK SKSM»  
TOV «METINVEST HOLDING»  
ZAT «Tehnopark instytut monokystaliv»  
MC-Bauchemie Ukraine  
TOV «PROMTEST»  
TOV «SOEPROEKT»  
TOV «Harkivs'kyi zavod pidymno-transportnogo ustatkuvannya»  
TOV «Proektno-tehnologichniy ta konstruktors'kyi instytut «UKRKRANENERGO»  
TOV NVF «TKS»  
TOV «PTE-KRAN»  
Staff-Eye GmbH

## Mission

Coverage, analysis and summary of theoretical and applied research results of modern lifting and transporting machines and equipment applying in logistics processes that ensure sustainable and competitive development of economy.

## Program

During the conference it is planned to consider:

- prospects, possibilities and tendencies of the use of lifting and transporting machines and equipment after reconstruction and modernization;
- results of theoretical and applied research on the basis of worldwide experiences in applying modern lifting and transporting machines and equipment in logistics;
- new priority directions of scientific research in the field of lifting and transporting machines in the focus of logistics;
- possibilities of renewal and establishing contacts in the field of scientific and practical cooperation between educational institutions, scientific institutions and companies in Ukraine and from abroad in order to prepare and participate in implementation of international projects;
- commercialization of technologies and innovative scientific developments;
- current requirements of employers to industry professionals and the possibility of their involvement in working with teams of researchers and producers on priority projects at the graduation stage.

## Exhibition

During the conference the participants could present their innovative scientific and technical developments, the latest technologies and products, calculation methods used in the design, manufacture and operation of lifting and transporting machines and equipment in modern logistics systems and complexes.

## Expexted results

The site of International Research Hands-On Conference «Smart Handling Systems in Logistics» should become the basis for representatives of manufacturers, science and education organizations to find partners and innovative projects in Ukraine and abroad. Young scientists and specialists will have chances to participate in discussing current practical issues and challenges.

## General Session

**Rector of NTU “KhPI” Sokol Y.**

Welcoming speech and the opening of the conference

**Kovalenko V.** (NTU “KhPI”, Ukraine).

Problems and prospects of lifting and transporting machines development in logistics systems and complexes

**Stogniy Y.** (IP Law company Inventa Co., Ltd, Ukraine).

Protection of intellectual property as an integral part of a company's business strategy

**Horlo M.** (JSC «E&TE «Ukrenergochermet», Ukraine).

Accreditation of organizations performing non-destructive control as a necessary condition for Ukrainian companies to get an access to international markets of industrial goods and services

**Katterfeld A.** (Otto von Guericke University Magdeburg, Germany). Optimiztion of an orange peel grab for wood chips

**Semenyuk V.** (Odessa National Polytechnic University, Ukraine). Automation and methods of increasing the energy efficiency of drives of lifting and transporting machines

**Vöth S.** (TH Georg Agricola University of Applied Sciences, Germany). Set of harmonized European standarts for proof of competence of cranes. Update 2019

**Ksenofontov O.** (BIIR, Denmark).

Logistics optimization on the example of wind turbine generator components transportation

**Kostenko O.** (NTU “KhPI”, Ukraine).

Logistics of production and transportation of pellets in Ukraine

**Gaita B.** (Engineered Rigging B.V., The Netherlands).

Alternative, complex methods for replacement of critical equipment in nuclear power plant systems

**Manukhin P.** (Catalent Pharma Solutions, Germany),

**Keba D.** (Nova Poshta, Ukraine). Systematic quality control and management of logistics processes on an example of a delivery service

**Lorenc A.** (Tadeusz Kosciuszko University of Technology, Poland). The use of artificial intelligence tools to improve the efficiency of internal processes in an warehouse

**Karssen K.** (Engineered Rigging B.V., The Netherlands). Methods of special equipment management

**Kovalenko O.** (STAFF-EYE, Germany).

Extreme use of XR technology for remote assistance, product configurator, and interactive manuals

**Tanasoiu B., Mortoiu D., Tanasoiu A.** (Aurel Vlaicu University of Arad, Romania). Treatment of random and singular loads in regards to estimation of lifetime of bearing structures of railway vehicles