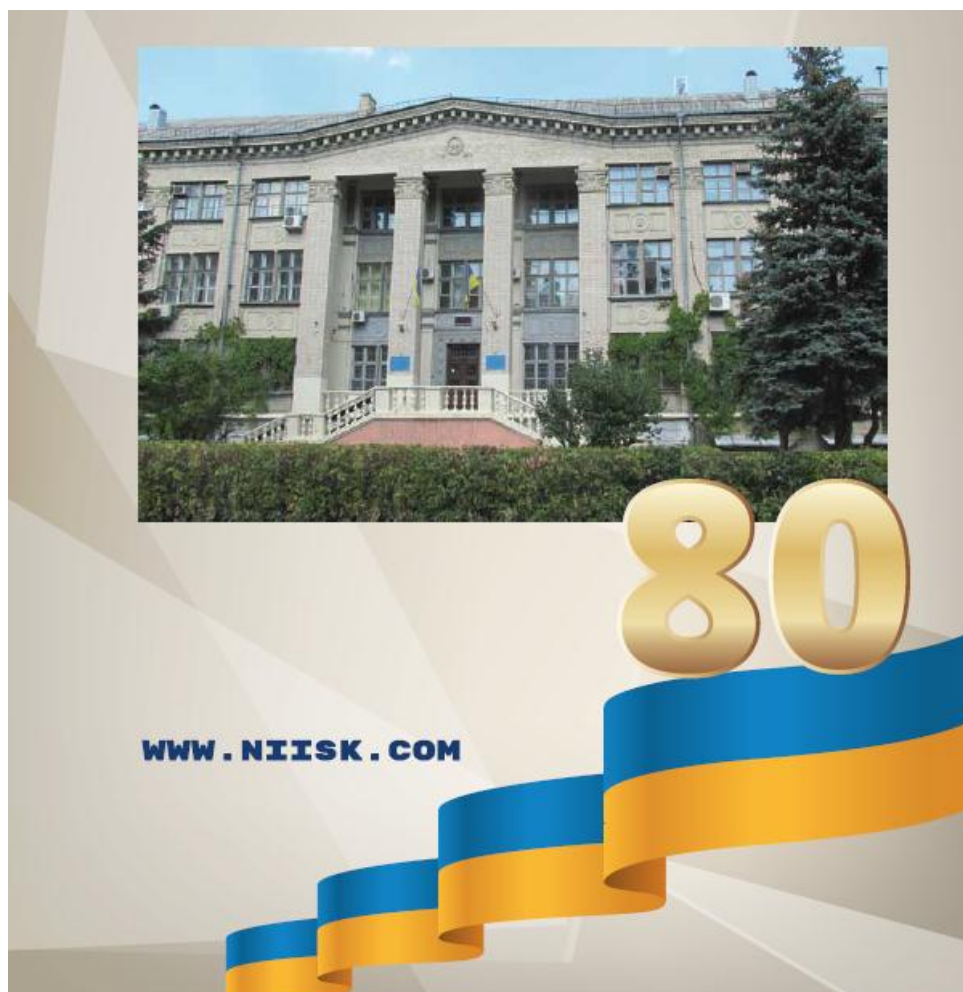


The Ministry of Development of Communities, Territories, and Infrastructure of Ukraine

**The State Enterprise " State Research
Institute of Building Constructions"**



THIRD ALL-UKRAINIAN SCIENTIFIC AND PRACTICAL CONFERENCE

**THE ROLE THAT SCIENCE PLAYS IN THE RECONSTRUCTION OF
UKRAINE**

To the 80th Anniversary of the Institute's Foundation

November 29, 2023

PROGRAMME

Kyiv - 2023

**Programme of
the Third All-Ukrainian Scientific and Practical Conference
The Role That Science Plays in the Reconstruction of Ukraine**

**SE NIISK
(Assembly Hall)**

November 29, 2023

All time slots are provided in Eastern European Time, EET

- 09:00** - Registration of conference participants, coffee break
10:00 am
- 10:00-10:05 am** Opening of the Conference
- 10:05 - 10:15 am** **Olena Shuliak**, Chairman of the Verkhovna Rada Committee on Organization of State Power, Local Self-Government, Regional Development and Urban Planning
- 10:15 - 10:25 am** **Nataliia Kozlovska**, Deputy Minister of Community, Territory and Infrastructure Development of Ukraine
- 10:25 - 10:35 am** **Mustafa-Masi Nayem**, Chairman of the State Agency for Infrastructure Restoration and Development of Ukraine
- 10:35 - 10:40 am** **Petro Shiliuk**, President of the Construction Chamber of Ukraine, Hero of Ukraine
- 10:35 - 10:40 am** **Serhii Prokhorov**, First Vice-President of the Ukrainian Union of Industrialists and Entrepreneurs

PLENARY REPORTS

- 10:45 - 11:00 am** **Tasks of Branch Science at the Present Stage of State Development**
Professor Gennady Farenjuk, Director of the State Research Institute of Building Constructions, Doctor of Technical Sciences
- 11:00 - 11:15 am** **Areas of Activity of the Academy of Construction of Ukraine under Martial Law and Urgent Tasks of Comprehensive Reconstruction of the Country**
Professor Ivan Nazarenko, President of the Academy of Construction of Ukraine, Doctor of Technical Sciences
- 11:15 - 11:25 am** **Cooperation of Academic and Branch Science in Solving Problems of Reliability of Buildings and Structures During Military Operations**
Professor Leonid Lobanov, Deputy Director of the Paton Electric Welding Institute for Research, Doctor of Technical Sciences, Academician of the National Academy of Sciences of Ukraine
Professor Valerii Pozniakov, Deputy Director of the Paton Electric Welding Institute for scientific and technical activities, Doctor of Technical Sciences, Corresponding Member of NASU
- 11:25 - 11:45 am** **Fib Introduction. Development of Model Code 2020: a general code for existing and new structures.**
David Fernandez-Ordoñez, Secretary General of the International Federation for Structural Concrete (fib)
- 11:45 am - 12:00 pm** **Actual Tasks of International Cooperation in Training Specialists In Higher Education Institutions**
Professor Anatolii Kovrov, Rector of the Odesa State Academy of Construction and Architecture, PhD

12:00 - 12:15 pm **Development of Scientific Schools of Construction Universities in Economic and Political Crises**
Professor Petro Kulikov, Rector of the Kyiv National University of Civil Engineering and Architecture, Doctor of Economics
Oleksandr Kovalchuk, Vice-Rector for Research and Innovative Development of the Kyiv National University of Construction and Architecture, PhD

12:15 - 12:30 pm **The Role of Science in the Restoration and Development of Road Infrastructure**
Artem Bezuhlyi, Director of the State Enterprise " Shulhin State Road Research Institute" PhD

12:30 - 12:45 pm **Scientific Activity of Construction Universities and Academies to Form Future Achievements of Scientific and Technological Progress**
Professor Mykola Savytskyi, Rector of the Prydniprovsk State Academy of Construction and Architecture, Doctor of Technical Sciences

12:45 - 01:00 pm **Instytut Techniki Budowlanej - 2023. International Scientific Partner in the Restoration of Ukraine**
Dr inż. Krzysztof Kuczyński, Adiunkt, Zastępca Dyrektora ds. Badań i Innowacji, Instytut Techniki Budowlanej
Dr inż. Ołeksij Kopyłow, Adiunkt, Zastępca Kierownika Zakładu Inżynierii Elementów Budowlanych, Instytut Techniki Budowlanej

01:00 - 02:00 pm **Buffet lunch**

02:00 – 05:20 pm **PANEL DISCUSSIONS**

	Assembly Hall
02:00 - 03:25 pm	<p>Panel Discussion No. 1 "Scientific and Technical Aspects of Conducting Inspections of Damaged and Destroyed Residential and Public Buildings and Infrastructure Facilities" <i>Moderator: Yurii Sliusarenko, Deputy Director of the State Research Institute of Building Constructions for scientific work, PhD</i></p>
02:05 - 02:20 pm	<p>Reliable LIRA-CAD Software for Calculating Critical Infrastructure Structures and Restoring Damaged Objects <i>Professor Mariia Barabash, Director of LIRA-SAPR LLC, Doctor of Technical Sciences</i> <i>Valerii Maksymenko, Head of the Laboratory of the Research Institute of Construction Production, PhD</i></p>
02:20 - 02:30 pm	<p>Static and Dynamic Testing of Bridges Damaged as a Result of Military Operations <i>Professor Yevhen Oksen, Leading Researcher of the State Enterprise NIISK, Doctor of Technical Sciences</i></p> <p>Inspection and Restoration of a Multi-Storey Monolithic-Frame Residential Building on Lobanovskyi Avenue, 6A, Kyiv <i>Oleksandr Lisenyi, Head of the Department of SE NIISK, PhD</i></p>
02:30 - 02:40 pm	<p>Damage Caused by Military Operations and Restoration of Panel Multi-Storey Residential Buildings <i>Yurii Melashenko, Head of the Department of SE NIISK, PhD</i> <i>Yurii Ishchenko, Head of the Laboratory of SE NIISK, PhD</i></p>

02:40 - 02:50 pm	Restoration of Damaged Buildings: Key Problems and Means to Solve Them <i>Viktoriia Serhiichuk, Head of the Department of SE NIISK</i>
02:50 - 03:00 pm	Modelling of Dynamic Loads of Explosive Type in the Problems of Studying the Strength of Building Structures Using Lira-CAD Software <i>Professor Mariia Barabash, Director of LIRA-SAPR LLC, Doctor of Technical Sciences</i>
03:00-03:10 pm	Nataliia Kostyra, Associate Professor of the Department of the National Aviation University, PhD
03:10-03:25 pm	Oleksii Bashynskiy, Engineer of Lira-SAPR LLC, Illia Barmin, Graduate Student of National Aviation University <i>Statements of panel discussion participants.</i>
03:30 - 05:20 pm	Panel Discussion No. 2 "Specifics of Inspection, Restoration and Preservation of Damaged and Destroyed Cultural Heritage Sites in Wartime" <i>Moderator: Olha Terefeieva, International Project Manager of the National Union of Architects of Ukraine, PhD</i>
03:35 - 03:45 pm	Aspects of Preserving Architectural Monuments Included in the Cultural Heritage of the City of Odesa <i>Professor Anatolii Kovrov, Rector of the Odesa State Academy of Construction and Architecture, PhD</i> <i>Stoianov F. F., Head of the Department for Cooperation with UNESCO and Protection of Cultural Heritage of the Department of Culture, International Cooperation and European Integration of the Odesa City Council</i> <i>Panov B. M., Head of the Capital Construction Department of the Odesa City Council</i> <i>Professor Sukhanov V. G., Professor of the Odesa State Academy of Construction and Architecture, Doctor of Technical Sciences</i> <i>Svitlana Petrash, Associate Professor Rector of the Odesa State Academy of Construction and Architecture, PhD</i>
03:45 - 03:55 pm	Experience in Protecting the Structures of St. Sophia of Kyiv During the War <i>Nelia Kukovalska, General Director of the National Reserve "Sofia of Kyiv", Academician of the Ukrainian Academy of Architecture</i> <i>Nadiia Molochkova, Head of the Sector of the National Reserve "Sofia of Kyiv", PhD</i>
03:55 - 04:05 pm	Problematic Issues of Classification of Damage to Cultural Heritage Sites Affected by Missile Attacks <i>Professor Anatolii Kovrov, Rector of the Odesa State Academy of Construction and Architecture, PhD</i> <i>Professor Sukhanov V. G., Professor of the Odesa State Academy of Construction and Architecture, Doctor of Technical Sciences</i> <i>Korobko O. O., Head of the Department of the Odesa State Academy of Construction and Architecture, Doctor of Technical Sciences</i> <i>Vorobyova O. V., Post Graduate Student of the Odesa State Academy of Construction and Architecture</i>
04:05-04:15 pm	Experience in Scientific and Technical Support of Repair and Restoration Works of Cultural Heritage Objects on the Example of Structures on Arsenalna Square in Kyiv <i>Volodymyr Tytarenko, Head of the Department of SE NIISK, PhD</i> <i>Anton Dvornyk, Head of the Laboratory of the State Enterprise NIISK, PhD</i> <i>Yaroslav Dombrovskiy, Head of the Laboratory of the State Enterprise NIISK</i>

04:15 - 04:25 pm	<p>Some Aspects of the Inspection of Damaged and Destroyed Residential Buildings, Structures and Infrastructure During the Military Conflict in Yugoslavia <i>Dr inż. Leopold Kruszka, Adiunkt, Wydział Inżynierii Lądowej i Geodezji, Wojskowa Akademia Techniczna w Warszawie</i> <i>Dr inż. Ołeksij Kopyłow, Adiunkt, Zastępca Kierownika Zakładu Inżynierii Elementów Budowlanych, Instytut Techniki Budowlanej</i></p>
04:25 - 04:35 pm	<p>Problems of Renovation of Depressed Urban Areas That Are Part of the UNESCO Protected Area in Odesa <i>Olena Tiurikova, Acting Head of the Department of the Odesa State Academy of Construction and Architecture, PhD</i></p>
04:35 - 04:45 pm	<p>Preservation of Historical Heritage: Key Problems and Obstacles to Their Correction <i>Viktoriiia Serhiichuk, Head of the Department of SE NIISK</i> <i>Nataliia Tabarkevych, Head of the Laboratory of SE NIISK</i></p>
04:45 - 04:55 pm	<p>Specifics of the Procedure for Restoring Historical Objects <i>Merzhyievska N. Y., Acting Head of the Department of the Odesa State Academy of Construction and Architecture, PhD</i></p>
04:55 - 05:20 pm	<p><i>Yermuraki O. I., Senior Lecturer of the Department of the Odesa State Academy of Construction and Architecture</i> <i>Statements of panel discussion participants.</i></p>
Hall 302	
02:00 - 03:40 pm	<p>Panel Discussion No. 3 "Current State of Technical Regulation" <i>Moderator: Dmytro Barzylowych, President of the All-Ukrainian NGO "Association of Construction Industry Experts"</i></p>
02:05 - 02:20 pm	<p>Specifics of the Regulatory Framework Governing Inspections and Design under Martial Law</p>
02:20 - 02:30 pm	<p><i>Olena Voskobiynyk, Director of the Department of the Ministry of Infrastructure, Doctor of Technical Sciences</i></p>
02:30 - 02:40 pm	<p>Contribution of the State Enterprise NIISK to the Formation of a Comprehensive System of Technical Regulation in Construction <i>Nataliia Hakh, Scientific Secretary of the SE NIISK, PhD</i> <i>Olesia Bielokon, Head of the Department of SE NIISK, PhD</i></p>
02:40 - 02:50 pm	<p>Specifics of Regulatory Support for Design Work on the Restoration of Damaged Objects <i>Professor Anatolii Perelmuter, Research-and-Production Company Skad-Soft, Doctor of Technical Sciences</i></p>
02:50 - 03:00 pm	<p>Current State of Technical Regulation and Specifics of the Regulatory Framework that Regulates Inspections and Design under Martial Law <i>Professor Kostiantyn Yehupov, the Odesa National Maritime University, Doctor of Technical Sciences</i> <i>Voitiuk A. V., Post-Graduate Student of the Department, the Odesa National Maritime University</i></p>

03:00-03:10 pm	Cement Industry of Ukraine. Steps Taken by Domestic Manufacturers Regarding the Quality of Construction Products <i>Liudmyla Kripka, Executive Director of the Association of Cement Producers of Ukraine</i>
03:10-03:40 pm	Choosing an Efficient Organizational and Technological Model for Restoring Damaged Buildings Based on the Duration Indicator <i>Viktor Russyi, Senior Lecturer of the Department, the Odesa State Academy of Construction and Architecture, Doctor of Philosophy</i> <i>Statements of panel discussion participants.</i>
03:45 - 05:20 pm	Panel Discussion No. 4 "Ensuring Energy Efficiency of Buildings in the Conditions of Restoration and Reconstruction" <i>Moderator: Yehor Fareniuk, Director of the State Institution "Energy Efficiency Fund", PhD</i>
03:50 - 04:00 pm	Current State in Rationing and Practical Implementation of Energy Efficiency and Acoustics Requirements <i>Andrii Postolenko, Head of the Department of SE NIISK, PhD</i> <i>Mykola Tymofeiev, Head of the Centre of SE NIISK, PhD</i> <i>Dmytro Bida, Junior Researcher of SE NIISK</i>
04:00 - 04:10 pm	Ventilated Facades. Main Trends <i>Dr inż. Ołeksij Kopyłow, Adiunkt, Zastępca Kierownika Zakładu Inżynierii Elementów Budowlanych, Instytut Techniki Budowlanej</i>
04:10 - 04:20 pm	Some Aspects of the Use of Renewable Sources in Ukraine <i>Professor Borys Basok, Head of the Department of the Institute of Engineering Thermophysics of the National Academy of Sciences of Ukraine, Doctor of Technical Sciences, Corresponding Member of NASU</i>
04:20 - 04:30 pm	Scientific Aspects of Energy Efficiency of Modern Construction <i>Andrii Surmachevskyi, Quality Director of Astor & Co LLC,</i> <i>Ponomariov D. O., Borysenko D. S., Buhaichuk M. M., Astor & Co LLC</i>
04:30 - 04:40 pm	Cooperation between SE NIISK and Henkel Bautechnik (Ukraine) to Ensure Energy Efficiency of Facade Thermal Insulation Systems. Restoration of Facade Thermal Insulation Systems Damaged During Military Operations. <i>Anatolii Velychko, Henkel Bautechnik LLC (Ukraine)</i>
04:40 - 04:50 pm	Improving the Energy Efficiency of Buildings in the Conditions of Restoration and Reconstruction by Introducing Centralized Heat Supply Systems <i>Olena Savchenko, Associate Professor of the Department of Lviv Polytechnic National University, PhD</i>
04:50 - 05:20 pm	<i>Statements of panel discussion participants.</i>
	Hall 218
02:00 - 03:35 pm	Panel Discussion No. 5 "Science and Business -Prospects of Interaction at the Current Stage"

	<i>Moderator: Anatolii Berkuta, Vice-President of the Confederation of Builders of Ukraine, PhD</i>
02:10 - 02:20 pm	Research, Certification and Organization of Entry of the PENETRON System into the Construction Market of Ukraine <i>Professor Leonid Sheinych, Head of the Department of SE NIISK, Doctor of Technical Sciences</i>
02:20 - 02:30 pm	The Need and Efficiency of Scientific and Technical Support in the Construction of Complex Construction Objects to Increase Their Reliability and Efficiency <i>Nataliia Ivlieva, Head of the Department of SE NIISK, PhD</i>
02:30 - 02:40 pm	Scientific and Practical Approaches in the Development of Estimated Standards for the Latest Construction Technologies and During the Use of New Construction Materials and Technical Resources <i>Ruslan Kyrysha, Senior Researcher of SE NIISK, PhD</i>
02:40 - 02:50 pm	Prospects for the Development of Construction from Technical Cannabis, Development of Final Building Materials from Cannabis, Research of Consumer Qualities and Technical Characteristics. <i>Serhii Boiko, Director of Konopliani Technologies LLC</i>
02:50 - 03:00 pm	Prefabricated Girderless Frame for Restoring the Housing Stock of Ukraine <i>Professor Andrii Pavlikov, Head of the Department of National University "Yuri Kondratyuk Poltava Polytechnic", Doctor of Technical Sciences</i> <i>Olha Harkava, Associate Professor of the Department of National University "Yuri Kondratyuk Poltava Polytechnic", PhD</i> <i>Yaroslav Kiiashko, Student of National University "Yuri Kondratyuk Poltava Polytechnic"</i> <i>Zakhar Travka-Babenko, Student of National University "Yuri Kondratyuk Poltava Polytechnic"</i>
03:00-03:10 pm	Mykhailo Bilokin, Student of National University "Yuri Kondratyuk Poltava Polytechnic" Modular Quick-to-Build Shelters of Dual Use in Ukraine. <i>Andrii Duzhak, Director of Bunker UA LLC</i> <i>Kiseliuk Y.</i>
03:10 - 03:35 pm	<i>Statements of panel discussion participants.</i>
03:40 - 05:20 pm	Panel Discussion № 6 "Modern Technologies in Energy, Hydraulic and Road Construction" <i>Moderator: Yurii Sapozhnykov, Chairman of the Management Board of JSC "Kyiv Research and Design Institute "ENERGOPROJECT", PhD</i>
03:45 - 03:55 pm	SE NIISK / State Specialized Enterprise Chornobyl NPP - Scientific and Technical Support of Construction Activities at the Shelter Facility of the Chornobyl Nuclear Power Plant at the Stages of Transformation of the Facility into a Safe System, Improvement of the Operation Safety of Building Structures of the Shelter Facility <i>Serhii Kondratenko, Deputy Technical Director of State Specialized Enterprise Chornobyl NPP</i> <i>Serhii Deriuha, Leading Engineer of State Specialized Enterprise Chornobyl NPP</i> <i>Professor Yurii Nemchynov, Deputy Director of SE NIISK for scientific work, Doctor of Technical Sciences</i> <i>Professor Andrii Bambura, Head of the Department of SE NIISK, Doctor of Technical Sciences.</i>

	<p><i>Professor Mykola Maryenkov, Head of the Department of SE NIISK</i> <i>Iryna Sazonova, Senior Researcher of SE NIISK</i> <i>Yurii Kurash, PhD,</i> <i>Vitalii Hlikhovskiy, Head of the Laboratory of the State Enterprise NIISK, PhD</i> <i>Yurii Malakhov, Advisor to the Chairman of the Management Board of JSC Kyiv Research and Design Institute,</i> <i>Viktor Shenderovych, Advisor to JSC Kyiv Research and Design Institute</i> <i>Tetiana Baibuzenko, Chief Engineer of JSC Kyiv Research and Design Institute</i> <i>Volodymyr Chernavskiy, Chief Engineer of JSC Kyiv Research and Design Institute</i> <i>Volodymyr Shcherbyn, Deputy Director of the Institute for Safety of Nuclear Power Plants, PhD</i></p>	
	<table border="1"> <tr> <td> <p><i>Professor Oleksandr Kliuchnykov, Academician of NASU, Doctor of Technical Sciences</i></p> </td> </tr> </table>	<p><i>Professor Oleksandr Kliuchnykov, Academician of NASU, Doctor of Technical Sciences</i></p>
<p><i>Professor Oleksandr Kliuchnykov, Academician of NASU, Doctor of Technical Sciences</i></p>		
03:55 - 04:05 pm	<p><i>Volodymyr Rudko, Head of the Department of the Institute for Safety Problems of Nuclear Plants</i> <i>Serhii Lazarenko, Director of UTEM LLC</i> <i>Anton Biichuk, Deputy Director of UTEM LLC</i> <i>Borys Reznykov, Chief Engineer of UTEM LLC</i></p>	
04:05 - 04:20 pm	<p>Measures to Complete the Construction of Power Units No. 3 and No. 4 of Khmelnytska NPP <i>Professor Yurii Nemchynov, Deputy Director of SE NIISK for scientific work, Doctor of Technical Sciences</i> <i>Kostiantyn Babik, Head of the Department of SE NIISK, PhD</i> <i>Yurii Stoliarchuk, Senior Researcher of SE NIISK</i> <i>Kostiantyn Kafiiiev, Head of the Department of SE NIISK, PhD</i></p>	
04:20 - 04:30 pm	<p><i>Yurii Sapozhnykov, Chairman of the Management Board of JSC Kyiv Research and Design Institute, PhD</i> <i>Oleksii Prykhodko, Deputy Chief Engineer for Architectural and Construction Solutions of JSC Kyiv Research and Design Institute</i></p>	
04:30 - 04:40 pm	<p>Pilot Project "Construction of the Kakhovka Hydroelectric Complex on the Dnipro Preparatory Activities" <i>Vadym Krainyk, Chairman of the Management Board of PJSC "Ukrhydroproiekt"</i> <i>Serhii Suk, Chief Engineer of the Project</i></p>	
04:40 - 04:50 pm	<p>Monitoring of the Technical Condition of Hydraulic and Energy Facilities During Operation <i>Hennadii Tkachuk, Head of the Department of Khmelnytska NPP</i></p>	
04:50 - 05:00 pm	<p>Study of the Technical Condition of Hydraulic Structures of The Dnipro Hydroelectric Power Station to Extend the Service Life <i>Volodymyr Tytarenko, Head of the Department of SE NIISK, PhD</i> <i>Yaroslav Dombrovskiy, Head of the Department of SE NIISK</i> <i>Valerii Shuminskyi, Leading Researcher of SE NIISK, PhD</i></p>	
05:00 - 05:05 pm	<p>Use of Secondary Aggregates In Road Surface Base Concretes <i>Professor Serhii Kroviakov, Vice-Rector of the Odesa State Academy of Construction and Architecture, Doctor of Technical Sciences</i></p>	
05:05 - 05:10 pm	<p>Numerical Studies of the Effect of External Reinforcement, Damaged Compressed Concrete Elements with Composite Materials <i>Denys Bezushko, Associate Professor of Odesa National Maritime University, PhD</i> <i>Chen Joi</i></p>	

<p>05:10 - 05:20 pm</p>	<p>Assessment of Fire Resistance of Reinforced Concrete Structures Using Building Information Modeling (BIM) <i>Oleh Fesenko, Associate Professor of the Department of the Kyiv National University of Construction and Architecture, PhD</i> <i>Vira Koliakova, Associate Professor of the Department of the Kyiv National University of Construction and Architecture, PhD</i></p> <p>Study of Elements of a Precast Reinforced Concrete Capital-Free and Girderless Frame <i>Serhii Mykytenko, Associate Professor of the Department of National University "Yuri Kondratyuk Poltava Polytechnic", PhD</i></p> <p><i>Statements of panel discussion participants</i></p>
	<p>Hall 218</p>
<p>05:30 - 05:50 pm</p>	<p>Summing up the conference results</p>
	<p>Assembly Hall</p>
<p>06:00 - 09:00 pm</p>	<p>Friendly communication on the occasion of the 80th anniversary of the State Enterprise NIISK</p>