

We invite you to participate in
**The International
Scientific and
Technical Conference**



«Materials Science and Modern Technologies»

The event will take place on **September 24–25, 2026**,
via the Zoom online platform

To participate in the conference, you need to fill out the
registration form by **September 18, 2026**

Conference Participant Registration Form



Department of Materials Engineering and Digital Manufacturing named after O. M. Petrychenko

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INFORMATION NOTICE

Dear Colleagues!

In accordance with the schedule for international and all-Ukrainian scientific-practical and scientific-methodological conferences and seminars in 2026 (UkrINTEI Certificate No. 991 dated December 11, 2025), on **September 24–25, 2026**, the Department of Materials Engineering and Digital Manufacturing named after O.M. Petrychenko at Kharkiv National Automobile and Highway University (KhNAHU) will host the **International Scientific and Technical Conference «Materials Science and Modern Technologies»** online via the Zoom platform.

The purpose of the conference is to discuss current challenges and priority areas for the development of materials science, modern materials processing technologies, and their applications in various industries. It also aims to synthesize experience, exchange knowledge, and expand international ties within the scientific community.

The working languages of the conference are Ukrainian and English.
Participation in the conference is free!

The conference program will be available at the following [link](#).

Following the conference, speakers will have the opportunity to *publish their work in a Ukrainian Category «B»* - scientific collection published the «Bulletin of Kharkov National Automobile and Highway University».

The requirements for articles in this specialist collection can be found at the [link](#). Submissions for the collection of scientific papers are due by **September 25, 2026**.

CONFERENCE ORGANIZING COMMITTEE

- **Anton KHOLODOV**, Chair of the Organizing Committee, Ph.D. in Engineering, Professor, Rector of KhNADU;
- **Illia DMYTRIIEV**, Vice Chair of the Organizing Committee, Doctor of Economics, Professor, Vice Rector for Research at KhNADU;
- **Oleksandr YEFYMENKO**, Vice Chair of the Organizing Committee, Candidate of Technical Sciences, Professor, Dean of the Faculty of Mechanical Engineering at KhNADU;
- **Diana HLUSHKOVA**, Deputy Chair of the Organizing Committee, Doctor of Technical Sciences, Professor, Head of the Department of Materials Engineering and Digital Manufacturing named after O.M. Petrychenko at KhNADU;
- **Vladyslava BAIDALA**, Executive Secretary of the Conference, Assistant Professor at the Department of Materials Engineering and Digital Manufacturing named after O.M. Petrychenko at KhNADU.

PRELIMINARY CONFERENCE TOPICS

SECTION 1. MATERIALS SCIENCE

- Fundamental research and material properties: current concepts, interdisciplinary research, and practical applications.
- Development of new materials: metallic, ceramic, polymer, composite, and nanomaterials.
- Structure and microstructure: methods of analysis, testing, and quality control of materials, including metallography, X-ray diffraction, electron microscopy, etc.
- Protection of materials against failure: corrosion, wear resistance, fatigue, and other types of degradation.
- Materials for Special Operating Conditions: materials for the aerospace, automotive, energy, and other industrial sectors.
- Education in Materials Science: innovative teaching methods, training of specialists, and integration of research into the educational process.

SECTION 2. MODERN TECHNOLOGIES

- Materials processing technologies: welding, casting, pressure processing, thermal and thermochemical treatment.
- Additive technologies: 3D printing with metal, polymer, and ceramic powders; their applications and capabilities.
- Information technologies in materials science: computer modeling, digital design, and AI tools for predicting material properties.
- Automation of manufacturing processes: the use of robotics, automated control systems, and CNC (computer numerical control).