2ND INTERNATIONAL SCIENTIFIC-PRACTICAL CONFERENCE "MACHINE BUILDING AND ENERGY: NEW CONCEPTS AND TECHNOLOGIES"

December 4-5, 2023, AzTU, Baku, Azerbaijan

The address of the conference:
AZ1073, H. Javid ave. 25, Baku, Azerbaijan Technical University
www.aztu.edu.az

E-mail: bakhtiyar.badalov@aztu.edu.az
Phone: (+994 12) 538-94-16
PLENARY SESSION PROGRAM

December 4, 2023, AzTU, Baku, Azerbaijan
12:00-14:00 (Baku time, Hybrid), Main building, Conference Hall

Introduction:

Prof. Vilayat Valiyev - Rector of the Azerbaijan Technical University

Congratulatory speeches:

Prof. Gesine Grande - President of Brandenburg Technical University Cottbus-Zenftenberg, Germany

Prof. Musa Yildiz - Rector of Gazi University, Türkiye

Reports:

Prof. Yashar Musayev, Dr.-Ing. Carlo Locci, Prof. Nizami Yusubov, Kamran Rzayev (Siemens Energy AG, Azerbaijan Technical University)

Green Hydrogen - Fuel of the Future
Discussion of the report

Prof. Mustafa Güden (Izmir Intitute of Technology)

Testing and modeling cellular structures against dynamic loading
Discussion of the report

Hakan Yavash (Turkish Aerospace Industries)

Advances in aerospace and space platforms: a distributed Research and Development approach
Discussion of the report

Gala Dinner 19:00-21:00 (Baku time)
SECTION 1. INNOVATIVE TECHNOLOGIES IN MACHINE BUILDING

Chairman: Prof. Nizami Yusubov
Co-chairman: Prof. Sylvio Simon
Deputy Chairman: Dos. Arastun Mammadov
Scientific Secretary: Senior Lecturer Ramil Dadashov

14:30-17:30 (Baku time, Hybrid)    ☕️ Main building, room 429
☕️ Tea break 15:50-16:10 (Baku time, Hybrid)

14:30-14:40
1. Yashar Musayev, Carlo Locci, Nizami Yusubov, Kamran Rzayev (Siemens Energy AG, Azerbaijan Technical University)
Green Hydrogen - Fuel of the Future

14:40-14:50
2. Sylvio Simon, Nizami Yusubov, Samir Amirli (Brandenburg University of Technology Cottbus-Senftenberg, Azerbaijan Technical University)
Formation of Geometric Parameters of the Surfaces of Cylindrical Parts during Waterjet Cutting

14:50-15:00
3. Abid Shah, Rezo Aliyev, Henning Zeidler, Stefan Krinke (Technische Universität Bergakademie Freiberg)
Investigation for Multi-Layer Cual8 and Multi-Material (Cual8-Mild Steel) Deposition Via WAAM Process

15:00-15:10
4. Pascal Fritzsche, Ilgar Abbasov (Brandenburg University of Technology Cottbus-Senftenberg)
Chip Formation and Shaping in Milling Machining of Light Metal Casting Materials

15:10-15:20
The Use Hot Stamping to Restore the Efficiency Tie Rod Ball Pins Trucks

15:20-15:30
6. Igor Savin, Vagif Movlazade, Ugurlu Nadirov, Isaq Khankishiyev, Irada Abbasova (Kazan National Research Technical University named after A. N. Tupolev, Azerbaijan State Marine Academy, Azerbaijan Technical University)
Laser Ablation Worn Die Surfaces in the Conditions of a Large Engineering Company

15:30-15:40
Punches and Matrices Recovery for Hot Punching by Electric Arc Hardfacing

15:40-15:50
8. Igor Balabanov, Yuliya Balabanova, Agasi Agayev (Kazan National Research Technical University named after A. N. Tupolev, Kazan Federal University, Kazan State University of Architecture and Engineering – KSUAE, Azerbaijan Technical University)
Development of a Parametric Model for Calculating Cutting Forces in External Cylindrical Turning of 16MNCR5 Steel

16:00-16:20
9. Sarvan Aziz (Azerbaijan Technical University)
Characteristics of Quality Formation in Processing of 32CrMoV12-10 Steel by Honing

16:20-16:30
10. Orkhan Mustafaoglu (Azerbaijan Technical University)
Correct Installation of Measuring Instruments and Determination of Errors by Checking the Equipment

16:30-16:40
11. Rezo Aliyev (TU Bergakademie Freiberg)
Specifics of the Planning of Additive Manufacturing Processes
1. Nariman Rasulov, Ugurlu Nadirov, Irada Abbasova (Azerbaijan Technical University)
Increasing the Efficiency of Processing Multi-Directional Conical Surfaces and Threads with the Control of Static Technological Connections

2. Nariman Rasulov, Elgun Shabiyev, Gulbeniz Demirova, Mursal Alakbarov, Yusif Huseynov (Azerbaijan Technical University)
Increasing the Efficiency of Forming Complex Rotating Surfaces with the Control of Technological Connections

3. Hasan Huseynov (Azerbaijan Technical University)
New Trends in Mechanical Engineering Technology

4. Vagif Abbasov, Fariz Amirov, Samir Amirli, Shalala Hasanli, Karel Frana (Azerbaijan Technical University, Brandenburg University of Technology Cottbus-Senftenberg, Hochschule Zittau)
Formation of Shaft Accuracy During Mechanical Processing on CNC Machines

5. Rasim Bashirov, Oyrad Abdullayev (Azerbaijan Technical University, Caspian Sea Transport Project and Scientific Research Institute)
Classification of Subsea Construction Vessels and Evaluation of Study Effectiveness

Determination of the Uncertainty of the Dimensions of Weight Stones in Mass Measurements in Maritime Shipping

7. Ilgar Abbasov, Mahhabat Suleymanov, Arastun Mammadov (Brandenburg University of Technology Cottbus-Senftenberg, Azerbaijan Technical University)
Modelling of Turning Process for Prediction of Energy Consumption

8. Mukhaddin Samadov, Omar Nazirov (Azerbaijan Technical University)
Intelligent Adaptive Grinding Control Systems in Industry

9. Sergey Bogatengov, Olyga Gabbasova, Mukhaddin Samadov, Elgun Shabiyev, Rufat Abbasov (South Ural State University, Azerbaijan Technical University)

10. Sergey Bogatengov, Natalia Sazanova, Vagif Movlazade, Heyran Abbasova, Ramil Dadashov, Ruslan Bazhenov (South Ural State University, Azerbaijan Technical University)
Digital Twins for Computer Aided Design on Lathe Operations

11. Hasan Huseynov, Cherkez Yusubov (Azerbaijan Technical University)
Modeling of Main Gas Pipelines at Change of Pressure at the Beginning and Speed of Movement at the End of Pipe
## SECTION 2. MACHINE SCIENCE, MECHATRONICS AND AUTOMATION

**Chairman:** Prof. Isa Khalilov  
**Co-chairman:** Prof. Dr.-Ing. Karel Frana  
**Deputy Chairman:** Dos. Vahid Farhadov  
**Scientific Secretary:** Senior Lecturer Anar Hajiyev

### 14:30-17:30 (Baku time, Hybrid)  🏢 Main building, room 207  
☕ Tea break 15:50-16:10 (Baku time, Hybrid)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 14:30-14:40   | 1. Andreas Bürger, Sylvio Simon, Stephan Hernschier (BTU Cottbus - Senftenberg, Universitätsplatz)  
Intelligent Sensor Technology for Rotating Parts in Machines and Plants |
| 14:40-14:50   | 2. Mikhail Lustenkov, Isa Khalilov, Andrey Moiseenko (Belarusian-Russian University, Azerbaijan Technical University)  
Comparative Analysis of Dynamic Characteristics of Spherical and Eccentric Transmissions with a Double-Ring Satellite |
| 14:50-15:00   | 3. Abdullah Sofiyev, Tarkan Vergül, Isa Khalilov (Istanbul Ticaret University, Azerbaijan Technical University)  
Vibration Behaviour of Shear Deformable Laminated Plates Composed of Non-Homogenous Layers |
| 15:00-15:10   | 4. Viktor Artemyev, Vitaly Kargin, Anar Hajiyev (BIOTECH University, Azerbaijan Technical University)  
Application of Difference Equations in Automated Production Control Systems Using Abstract Discrete Automatons |
| 15:10-15:20   | 5. Valeh Bakhshali (Azerbaijan Technical University)  
Anti-Vibration Foundation for the Machines Used in the Oil and Gas Industry |
| 15:20-15:30   | 6. Farrukh Mamedov, Viktor Artemyev, Vitaly Kargin (Azerbaijan Technical University, BIOTECH University)  
Using Statistical Methods to Assess the Accuracy of Production Process Control Systems |
| 15:30-15:40   | 7. Alesker Aliyev, Sevda Aliyeva, Veli Fataliyev (Azerbaijan State Oil and Industry University, Azerbaijan Technical University)  
Influence of Technological Factors on the Performance and Aging Process of Oil Pumpjack |
The Influence of Asymmetry of the Convertor Mechanism on the Performance of the Sucker Rod Pumping Unit |
| 15:50-16:00   | 9. Iftikhar Chalabi (Azerbaijan Technical University)  
Worm Gear Failure Analysis According to Various Calculation Criteria |
| 16:00-16:10   | 10. Ahmad Imanov (Azerbaijan Technical University)  
Kinematic and Dynamic Calculations of Cam Mechanism Profiled with Modified Curve Based on New Equation |
11:00-13:00 (Baku time, Hybrid)  
Main building, room 207

1. Ramiz Ahmadov, Khadija Aliyeva  
(Azerbaijan Technical University)  
Control Subsystem for Adaptive Control of Technological Processes on Metal-Cutting Machines

2. Vagif Gasimov, Shahla Aliyeva, Maryam Asadova, Zhanna Assanova  
(Azerbaijan Technical University, Mingachevir State University, Kyzylorda University named after Korkut Ata)  
Application of Blockchain Technology for the Security of Smart Infrastructures

3. Yahya Amanov, Savalan Kerimov, Samaya Baghirova  
(Azerbaijan Technical University)  
Study of the Dependence of the Friction Force and Coefficient of the Abrasive in the Metal Contact Zone on Various Factors

4. Eldar Aliyev, Shabnam Ismayilova  
(Azerbaijan Technical University)  
Determination of the Thickness of the Colorful Layer, Taking into Account the Roughness of the Printed Surface

5. Firuz Mammadov, Samaya Baghirova  
(Azerbaijan Technical University)  
Research on Ratio Regulation Gear Differential Closed by a Continuously Variable Transmission

6. Shahin Charkasov  
(Azerbaijan Technical University)  
Calculation of Equal Resistance Riveted Joint

7. Huseyn Mirzayev, Beyali Ahmedov  
(Baku Engineering University, Azerbaijan Technical University)  
Estimation of the Sliding Bearings Efficiency of a New Designed Multistage Gearbox

8. Shahid Yusubov  
(Azerbaijan Technical University)  
Analysis of a Longitudinal Crack in a Pipeline Loaded with a Certain Internal Pressure, with Recommendations for Further Operation
### Session 3: Materials Science and Nanomaterials in Mechanical Engineering

**Chairman:** Prof. Subhan Namazov  
**Co-chairman:** Prof. Mustafa Guden  
**Deputy Chairman:** Prof. Amdulla Mekhrabov  
**Scientific Secretary:** Senior Lecturer Lala Azimova

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:30-14:40</td>
<td>1. Amdulla Mekhrabov, Bengi Yagmurlu, Vedat Akdeniz</td>
<td>Design and Synthesis of Bulk Amorphous Steel from Cast Iron Scrap</td>
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<td>(Azerbaijan Technical University, Novel Alloy Design and Development Laboratory (NOVALAB), Middle East Technical University)</td>
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<td>14:40-14:50</td>
<td>2. Subhan Namazov, Taleh Taghiyev, Shahin Mashayev</td>
<td>Production Technology of the Valve of the Steel Drilling Pump Brand PK08X4HS</td>
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<td>(Azerbaijan Technical University)</td>
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<td>14:50-15:00</td>
<td>3. Güden Mustafa, Güler Yigit, Yıldırım Servet, Dağlıöz Özkan</td>
<td>Strain Rate and Temperature Dependent Tensile Failure of a Short Glass Fiber Reinforced Polyamide Thermoplastic Composite</td>
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<td>(Izmir Institute of Technology, Bosch Home Comfort Group R&amp;D Center)</td>
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<td>15:00-15:10</td>
<td>4. Sasan Yazdani, Suleyman Tekeli, Elina Akbarzadeh - CH</td>
<td>Fabrication of Multi-layer 316L-TiC Composite by Selective Laser Melting Additive Manufacturing</td>
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<td>(Gazi University)</td>
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<td>15:10-15:20</td>
<td>5. Sevda Kasimova</td>
<td>Development of Non-Reflective Coatings for Radars</td>
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<td>15:30-15:40</td>
<td>7. Arif Mammadov, Aqil Babayev, Nizami Ismayilov, Muxtar Huseynov, Faig Guliyev</td>
<td>Improvement of Production Processes of Seamless Steel Pipes for Oil and Gas Extraction</td>
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<td>(Azerbaijan Technical University, Azerbaijan State Marine Academy, &quot;Baku Steel Company&quot; LLC)</td>
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<td>(Azerbaijan Technical University)</td>
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SECTION 4. ELECTRICAL ENGINEERING, ELECTRONICS AND ELECTRO-MATERIAL SCIENCE

Chairman: Dos. Hikmat Aliyev
Co-chairman: Prof. Dauren Akhmetbaev
Deputy Chairman: Dos. Qara Hasanov
Scientific Secretary: Dos. Bahruz Sadigli

14:30-17:30 (Baku time, Hybrid)  Building 7, first floor
Tea break 15:50-16:10 (Baku time, Hybrid)

1. Amdulla Mekhrabov, Matanat Mehrabova (Azerbaijan Technical University)
   14:30-14:40 Effect of Gamma Irradiation on Structural and Optical Properties of CdMnte Epitaxial Thin Films

2. Ahmad Mammadov, Zaur Zakaryayev (Azerbaijan Technical University, Military Institute named after Haydar Aliyev)
   14:40-14:50 Holography and Its Usage Nowadays

3. Sergey Gandzha, Andrey Sogrın, Nikolay Neustroev, Denis Korobatov, Dmitry Ardashev, Ramil Dadashov (South Ural State University, Azerbaijan Technical University)
   14:50-15:00 The Development and Study of an Electromechanical Converter for an Electro-Hydraulic Power Amplifier of a Servo-Hydraulic Drive

6. Mehti Camalov, Elmir Bagirli, Hikmet Aliyev (Azerbaijan Technical University)
   15:20-15:30 Investigation of Dielectric Properties and Structural Changes in XLPE Composite Insulation of Covered Conductor Due to Thermal Aging

7. Togrul Ismarylov (Azerbaijan Technological University)
   15:30-15:40 Research Multiservice Telecommunications Future Generation Networks Based on SDN Technology

4. Denis Korobatov, Alexey Baturin, Dmitry Ardashev, Heyran Abbasova (South Ural State University, Azerbaijan Technical University)
   15:00-15:10 Requirements Definition, Modeling, and Simulation of Control Units of an Electrohydraulic Power Amplifier

8. Elvin Abaszada (Azerbaijan Technical University)
   15:40-15:50 Studies Some Aspects Information Security of Wireless Communication Networks

5. Vaqif Maherramov (Azerbaijan Technical University)
1. Laman Hasanova, Hikmet Aliyev, Gulnar Sydykova
   (Azerbaijan Technical University, Korkyt Ata Kyzylorda University)
   Analysis of Operating Benefits of Modern Wind Turbines

2. Bayram Ibragimov, Asmar Nabieva, Aygun Hamidova
   (Azerbaijan Technical University)
   Research Efficiency Functioning Wireless Cellular Networks Taking into Account Modern Energy Saving Technologies

3. Asad Rustamov
   (Military Scientific Research Institute)
   Acoustooptic Receiver of Passive Radar System

4. Bayram Ibragimov, Ali Tagiyev
   (Azerbaijan Technical University)
   Research on the Effectiveness Energy Saving Mechanisms in Mobile Networks When Using the Wi-Fi Radio Interface

5. Bahruz Sadıqlı, Shamkhal Aliyev, Gunel Guseynova, Araz Mammadzade
   (Azerbaijan Technical University, "Azerishiq" Training Center)
   Increasing Control Automation and Management Flexibility in Distribution Electric Networks

6. Gara Hasanov, Shamkhal Aliyev
   (Azerbaijan Technical University)
   Application of Volterra Integral Equations and Discrete Borel Transformations to Transient Switching Modes of Networks and Systems

7. Fagan Amanullazada
   (Baku Engineering University)
   Research Capacity Indicators Multiservice Convergent Communication Networks Based on Modern Technologies

8. Ahmad Mammadov, Afiz Manafov
   (Azerbaijan Technical University)
   Relay Protection of Electrical Networks in Megacities and Automation Devices and Problems in Establishing Electrical Energy Supply Systems and Development Perspectives
SECTION 5. ENERGY SYSTEMS AND COMPLEXES

Chairman: Prof. Nurali Yusifbayli
Co-chairman: T.e.d. Pavel Ilyushin
Deputy Chairman: Dos. Huseyngulu Guliyev
Scientific Secretary: Dos. Ramiz Kalbiyev

14:30-17:30 (Baku time, Hybrid)  
Main building, room 317 
Tea break 15:50-16:10 (Baku time, Hybrid) 

1. Nurali Yusifbayli, Ramiz Kalbiyev, Rana Hamidova, Asif Sadigov  
(Azerbaijan Technical University) 
Prospects of Green Energy Use in the Republic of Azerbaijan

2. Huseyngulu Guliyev, Ramil Yusifov  
(Azerbaijan Technical University, "Azerishiq" LTD) 
Research of the Electromechanical Part of Three-Phase Electromagnetic Vibrator of Low Frequency Vibrations

3. Javad Najafli, Yadigar Imamverdiyev  
(Azerbaijan Technical University) 
Choosing the Optimal Location of Solar Panels Using Z-Numbers

4. Ramiz Kalbiyev, Rana Hamidova, Gulyaz Huseynova  
(Azerbaijan Technical University) 
Analysis of The Speed of Sound in Solutions of Ionic Liquids with Methanol.

5. Nijat Nasirov  
(Azerbaijan Technical University) 
A Detailed Analysis of External Ballistics and a Study of Factors Affecting the Projectile Range

6. Rufat Kalbaliyev, Lala Akhmedova-Azizova, Ulviyye Nasibova  
(Azerbaijan Research and Design-Prospecting Institute of Energetics, Azerbaijan Technical University) 
Increasing the Energy Efficiency of Heat Exchanger Devices

7. Huseyngulu Guliyev, Farid Huseynov  
(Azerbaijan Technical University, Baku, Azerbaijan National Aviation Academy) 
Methodology for Complex Assessment of the Technical Condition of Electric Motors and Descriptive Forms of Signals
11:00-11:10
1. Iltimas Mammadov, Ulfat Sadigov
(Azerbaijan Technical University)
Research Information Security and Reliability Critical Infrastructure Control Systems

11:10-11:20
2. Jamil Gasimov
(Demiryolservis LLC Azerbaijan Railways)
Increase in Resource Reserves Due to the Reliability of the Track on the Railways

11:20-11:30
3. Aydin Muradaliyev
(Azerbaijan Technical University)
Methodology for Assessing the Degree of Aging Overhead Power Transmission Lines of Ees

11:30-11:40
4. Akif İsmayılov, Alivahid Aliyev
(Azerbaijan State Marine Academy)
Verification of the Adequacy of the Created Work Cycle Calculation Model of Marine Diesel Engine

11:40-11:50
5. Sevda Kasimova
(Azerbaijan Technical University)
Nonreflective Coatings to Enhance the Accumulation of Solar Energy

11:50-12:00
6. Misirkhan Talybov, Ilmutdin Abdulagatov
(Azerbaijan Technical University, Dagestan State University)
Experimental Study of the Effect of Temperature and Ions Concentration on the Density of Natural Mineral Waters from The Region of South Russia
SECTION 6. ECOLOGICAL, AND SOCIOECONOMIC ASPECTS OF ENVIRONMENTAL PROTECTION, MACHINE BUILDING AND ENERGY

Chairman: Prof. Fakhreddin Yusubov
Co-chairman: Prof. Andrey Ershov
Deputy Chairman: Dos. Arzu Suleymanov
Scientific Secretary: Prof. Gulahmad Talybov

14:30-17:30 (Baku time, Hybrid)
Tea break 15:50-16:10 (Baku time, Hybrid)

1. Irada Khalafova, Kenan Mammadli
   (Azerbaijan State Oil and Industry University)
   Catalytic Pyrolysis Systems of Light Hydrocarbons

2. Sevinj Guliyeva, Fakhreddin Yusubov, Narmina Alieva
   (Azerbaijan State Oil and Industry University, Azerbaijan Technical University)
   Application of Artificial Intelligence in the Process of Adsorption Purification of Isobutane, Isobutylene and Benzene from Impurities

3. Elvin Alizada, Niyazi Mammadov
   (Azerbaijan Technical University)
   Measuring the tendency of the age groups of the population to the digitalization of the transport infrastructure in Azerbaijan

4. Fakhreddin Yusubov, Miryusif Mirbabayev, Gulahmad Talybov, Ilham Aliyev, Govhar Valiyeva
   (Azerbaijan Technical University)
   The Adsorption of Heavy Metal Ions

5. Naile Veysova, Vaqife Huseynova, Aynure Yariyeva, Shukufa Eyvazova
   (Azerbaijan Technical University)
   Biological Properties of Cyclohex-3-Encarbonyl Acid Pyridin-2-Yl Amide Compound

14:30-14:40
15:00-15:10
14:40-14:50
15:10-15:20
14:50-15:00
15:50-15:00
### Session Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-13:00</td>
<td>(Baku time, Hybrid)</td>
</tr>
<tr>
<td>14:30-14:40</td>
<td>1. Naciba Shirinova, Gulnara Kerimova (Azerbaijan Technical University) Research of the Chemical Composition of Mining Industry Waste</td>
</tr>
<tr>
<td>14:40-14:50</td>
<td>2. Nasimi Valehov, Fidan Valehova (National Aviation Academy, National Aerospace Agency, Institute of Ecology) Application of NDVI Index and Supervised Decoration Methods on Sentinel-2a and Landsat 5 Tm Satellite Images in Arcgis Software</td>
</tr>
<tr>
<td>14:50-15:00</td>
<td>3. Miryusif Mirbabayev, Gulnar Bahramova (Azerbaijan Technical University) Modern Methods of Purification of Heavy Metal Ions from Wastewater</td>
</tr>
<tr>
<td>15:10-15:20</td>
<td>5. Gulnar Sydykova, Matanat Pashayeva, Fariz Mammadov (Korkyt Ata Kyzylorda University, Azerbaijan Technical University) Energy Efficiency as a Driver of Sustainable Development: Case of Azerbaijan and Kazakhstan</td>
</tr>
<tr>
<td>15:20-15:30</td>
<td>6. Leyla Vazirova, Govhar Abbasova (Azerbaijan State Oil and Industry University, Azerbaijan Technical University) Sorbents Based on Iron Oxide Nanoparticles for Release of Tetracyclines for Water Treatment</td>
</tr>
</tbody>
</table>

### Venue Information
- **Main building, room 329**
FINAL MEETING OF THE CONFERENCE

December 5, 2023, 17.00-18.00 (Baku time, Hybrid)
© Main building, room 207

1) Reports of department chairmen.
2) General discussions and relevant decisions.
3) Closing of the conference.
Notes:
The address of the conference:
AZ1073, H. Javid ave. 25, Baku,
Azerbaijan Technical University
www.aztu.edu.az

E-mail: bakhtiyar.badalov@aztu.edu.az
Phone: (+994 12) 538-94-16