



UNIVERSITIES AND BUSINESS JOIN FORCES

PROGRAM

15th INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE

KAZAKHSTAN-REFRIGERATION 2026

EDUCATION – SCIENCE – ENGINEERING – BUSINESS – ENVIRONMENT

APRIL 29, 2026

ALMATY, Al-Farabi Kazakh National University

OFFICIAL PARTNERS



VENUE AND TIME

Kazakhstan, Almaty, Al-Farabi Kazakh National University
71/27 Al-Farabi Avenue (Scientific Library)
Registration: April 29, from 09:00

Pre-registration via the link provided on the right is required for attendance.



[https://maxteniz.kz/
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OFFICIAL PARTNERS

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EUROCOLD SERVICE LTD	Almaty, Kazakhstan (Member of ARIAC RK)
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MYASOMOLMONTAZH	Minsk, Belarus

INFORMATION PARTNERS

Империя Empire of Cold
Холодильная индустрия
ХОЛОДА
holodinfo.ru

Empire of Cold — industry-specific information and analytical journal and portal holodinfo.ru

Холодильная
индустрия онлайн журнал
и каталог

Refrigeration Industry — industry-specific online portal holodindustry.ru

ORGANIZERS



FARABI UNIVERSITY

Al-Farabi Kazakh National University
(KazNU)
Member of ARIAC RK



Almaty Technological University (ATU)
Member of ARIAC RK



ARIAC RK

Association of the Refrigeration
Industry and Air Conditioning
of the Republic of Kazakhstan
(ARIAC RK)



Teniz

Teniz
School of Refrigeration, Automation
and Electronics
Member of ARIAC RK



Scientific and Technical Society
KAHAC



ProserviceYug
Member of ARIAC RK



Business Accelerator Human Capital

ORGANIZING COMMITTEE

CHAIR:

A.P. Tsoy — President of the Association of the Refrigeration Industry and Air Conditioning of the Republic of Kazakhstan; Chairman of the Kazakhstan Branch of the International Academy of Refrigeration; Academician of IAR; Doctor of Technical Sciences; Professor at ATU; Almaty, Kazakhstan

MEMBERS:

M.K. Ibraimov — Member of the Board; Vice-Rector for Research and Innovation at Al-Farabi Kazakh National University; PhD; Associate Professor; Almaty, Kazakhstan

T.K. Kulazhanov — Rector of ATU; Doctor of Technical Sciences; Professor; Academician of the National Academy of Sciences of the Republic of Kazakhstan; Academician of MIA; Academician of NIA RK; Almaty, Kazakhstan

I.V. Baranov — President of the International Academy of Refrigeration; Academician of IAR; Director of the Educational Center “Energy-Efficient Engineering Systems” at ITMO University; Doctor of Technical Sciences; Professor; Saint Petersburg, Russia

A.V. Baranenko — Professor; Doctor of Technical Sciences; ITMO University; Academician of IAR; Saint Petersburg, Russia

M.L. Galkin — Professor; Doctor of Technical Sciences; Bauman Moscow State Technical University; Academician of IAR; Moscow, Russia

A.S. Titlov — Head of the Department “Thermal Power Engineering and Pipeline Transport of Energy Carriers”, Odessa National Academy of Food Technologies; Doctor of Technical Sciences; Professor; Academician of IAR; Odesa, Ukraine

S.A. Bolegenova — Head of the Department of Thermophysics and Technical Physics, KazNU; Academician of IAR; Doctor of Physical and Mathematical Sciences; Almaty, Kazakhstan

Zh.K. Shortanbayeva — Deputy Head of the Department of Thermophysics and Technical Physics, Al-Farabi Kazakh National University; Academic Advisor of IAR; Almaty, Kazakhstan

B.A. Aliyev — Vice-Rector for Research and Innovation at ATU; Doctor of Physical and Mathematical Sciences; Almaty, Kazakhstan

I.M. Dzhurinskaya — Head of the Research Department, ATU; PhD; Almaty, Kazakhstan

A.E. Sadiyeva — Head of the Department of MAPF, Kyrgyz State Technical University named after I. Razzakov; Doctor of Technical Sciences; Academician of IAR

K.F. Karimov — Head of the Department “Refrigeration and Cryogenic Engineering”, Tashkent State Technical University named after Islam Karimov; Doctor of Technical Sciences; Professor; Academician of IAR; Tashkent, Uzbekistan

A.P. Bruk — Director of CAREL Kazakhstan; Almaty, Kazakhstan – Italy

N.S. Drumcheglo — Director of IMPERIUM CAELI; Shymkent, Kazakhstan

A.N. Smirnov — Deputy Director for Technical Affairs, MYASOMOLMONTAZH; Minsk, Belarus

R.D. Shapkin — Director of EUROCOLD SERVICE LTD; Almaty, Kazakhstan

V.G. Toropov — Director of KOMPRESSOR; Almaty, Kazakhstan

Hengfei Sun — Head of the Representative Office in Kazakhstan, Moon Environment Technology Co., Ltd.; Yantai, China

Y.G. Koshkin — Technical Director, ProserviceYug; Shymkent, Kazakhstan

E.N. Khvan — Commercial Director, Kholodmarket; Almaty, Kazakhstan

A.S. Granovskiy — Head of the Scientific and Educational Department of Refrigeration Engineering, Teniz LLP; Corresponding Member of IAR; Almaty, Kazakhstan

A.D. Askarov — Assistant Professor; PhD; ATU; Corresponding Member of IAR; Almaty, Kazakhstan

P. Schonhals — Project Manager for Refrigeration Systems and Heating, Amstein + Walther AG; Switzerland

APRIL 29, 2026

PLENARY SESSION

Moderators:

**Aliya Marova — Trainer, Co-founder of the Business Accelerator Human Capital
Alexander Zakharov — Director, Individual Entrepreneur; Member of ARIAC RK**

Welcome Addresses

10:00 – 10:05 **Margulan K. Ibraimov**
Member of the Board; Vice-Rector for Research and Innovation at Al-Farabi Kazakh National University; PhD; Associate Professor; Almaty, Kazakhstan

10:05 – 10:10 **Talgat K. Kulazhanov**
Rector of Almaty Technological University; Doctor of Technical Sciences; Professor; Academician of the National Academy of Sciences of the Republic of Kazakhstan; Academician of MIA; Academician of NIA RK; Almaty, Kazakhstan

10:10 – 10:15 **Igor V. Baranov**
President of the International Academy of Refrigeration; Academician of IAR; Doctor of Technical Sciences; Professor; Director of the Educational Center “Energy-Efficient Engineering Systems”, ITMO University; Saint Petersburg, Russia

10:15 – 10:20 **Pavel S. Lozhnikov**
Vice-Rector for Research and Innovation; Doctor of Technical Sciences; Professor; Omsk State Technical University; Omsk, Russia
ONLINE

10:20 – 10:25 **Artem V. Kushnerev**
International Project Coordinator, United Nations Industrial Development Organization
ONLINE

10:25 – 10:40 Experience of Collaboration between Science and Business within the “Kazakhstan–Refrigeration” Platform
Alexander P. Tsoy — President of the Association of the Refrigeration Industry and Air Conditioning of the Republic of Kazakhstan; Doctor of Technical Sciences; Professor at ATU; Chairman of the Kazakhstan Branch of IAR; Academician of IAR; Almaty, Kazakhstan

10:40 – 11:00 **Presentation of Certificates of Appreciation, Diplomas, and Membership Certificates to Members of the Association of the Refrigeration Industry and Air Conditioning of the Republic of Kazakhstan**

MAIN SESSION

Moderators:

**Aliya Marova — Trainer, Co-founder of the Business Accelerator Human Capital
Alexander Zakharov — Director, Individual Entrepreneur; Member of ARIAC RK**

SECTION 1 **Theoretical Challenges and Scientific Advances in Thermophysics, Thermodynamics, and Engineering Physics Applicable to Practical Implementation in Technological Processes and Refrigeration and HVAC Engineering**

11:00 – 11:15	<p>Key Development Directions in Low-Temperature and Food Technologies</p> <p>Igor V. Baranov — President of the International Academy of Refrigeration; Academician of IAR; Director of the Educational Center “Energy-Efficient Engineering Systems”; Doctor of Technical Sciences; Professor; ITMO University</p> <p>Andrey A. Nikitin — Director General of the International Academy of Refrigeration; Academician of IAR; Candidate of Technical Sciences; Associate Professor; Educational Center “Energy-Efficient Engineering Systems”; Saint Petersburg, Russia</p>
11:20 – 11:35	<p>Thermodynamic Analysis of Air-to-Water Heat Pumps with Various Configurations for Domestic Hot Water Preparation in Cold Climate Regions</p> <p>Yersultan Rymkul — PhD Candidate; Yerzhan Belyayev — PhD; Associate Professor; Professor-Researcher; Amankeldy Toleukhanov — PhD; Associate Professor</p> <p>Al-Farabi Kazakh National University, Almaty, Kazakhstan</p> <p>M. Mohanraj — PhD; Professor, Hindusthan College of Engineering and Technology, Coimbatore, India</p> <p>O. Botella — PhD; Professor; Feidt M. — Professor, University of Lorraine, Nancy, France</p> <p>Ye. Yerdesh — PhD; H.S. Wang — PhD, Queen Mary University of London, London, UK</p>
SECTION 1.1	<p>Methods for Reducing the Use of High Global Warming Potential Refrigerants within the Framework of the Kigali Amendment to the Montreal Protocol</p>
11:40 – 11:55	<p>Green Transition for Sustainable and Natural Refrigerants Development in China in the framework of the Montreal Protocol</p> <p>Hengfei Sun — Head of Representative Office in Kazakhstan, Moon Environment Technology Co., Ltd. (MOON-TECH); Yantai, China</p>
12:00 – 13:00	<p>Group Photo. Business Lunch</p>
SECTION 2	<p>Efficient Engineering Solutions and Practical Experience in Operation and Service of Refrigeration and HVAC Systems</p>
13:00 – 13:15	<p>Efficiency of a Two-Stage Adiabatic Cooling System in the Conditions of Southern Kazakhstan</p> <p>Nikolay S. Drumcheglo — Director of IMPERIUM CAELI; Shymkent, Kazakhstan</p>
13:20 – 13:35	<p>Water Loop Technology in Food Retail</p> <p>Andrey P. Bruk — Director of CAREL Kazakhstan; Almaty, Kazakhstan – Italy</p>

13:40 – 13:55	Operational Experience of a Cascade Refrigeration System with CO ₂ in the Low-Temperature Stage Alexey N. Smirnov — Deputy Director for Technical Affairs, MYASOMOLMONTAZH; Minsk, Belarus
14:00 – 14:15	Authorized Service Center for Screw and Reciprocating Compressors of Bitzer Roman D. Shapkin — Director of EUROCOLD SERVICE LTD; Almaty, Kazakhstan
14:20 – 14:35	Modern Energy-Efficient and Environmentally Friendly Air Conditioning Systems Yuri V. Koshkin — Technical Director, ProserviceYug; Almaty / Shymkent, Kazakhstan
14:40 – 14:55	TRANE Chillers for Data Centers: Efficiency and Reliability German R. Safin — Technical Director, TRAMAX Limited Vladimir V. Matveev — General Director, TRAMAX Limited; Almaty, Kazakhstan
15:00 – 15:15	TRANE Chillers with Free Cooling Option (Practical Application) German R. Safin — Technical Director, TRAMAX Limited Vladimir V. Matveev — General Director, TRAMAX Limited; Almaty, Kazakhstan
15:20 – 15:35	大型制冷系统降低高 GWP 制冷剂消耗的解决方案 Solutions for Reducing the Consumption of High Global Warming Potential Refrigerants in Large-Scale Refrigeration Systems Lu Kunlun — Director of the Design Institute at Moon Environment Technology Co. (MOON-TECH), Yantai, China
15:40 – 15:55 ONLINE	Development of Efficient Cooling Systems for Primary Low-Temperature Processing and Storage of Small-Seeded Crops Serhii M. Petushenko — PhD, Odessa Technical Vocational College ONTU; Oleksandr S. Titlov — Doctor of Technical Sciences, professor, Odessa National Technological University, Odesa, Ukraine
16:00 – 16:15	Enhancing the Efficiency of Water-Cooled Refrigeration Units Dmitry M. Galkin — Chief Project Engineer, Spectroplast, Corresponding Member of IAR, Moscow, Russia
PANEL DISCUSSION	
Moderators: Alexander P. Tsoy, Ilya V. Novikov — PhD; Cor. Member of IAR	
16:00 – 16:40	Refrigeration System of the Medeu High-Mountain Skating Rink: Discussion and Proposals. Draft Resolution
16:40 – 16:45	Closing of the Conference
17:00	Business Dinner (by prior registration)

APRIL 30, 2026

CONFERENCE SUMMARY

11:00 – 12:00 Business Breakfast (by prior registration)

**12:00 – 13:00 Signing of Memoranda and Agreements. Conference
Summary and Closing Remarks**
