

PERSONAL INFORMATION



SHAIMERDENOVA GULZHAN MEIRAMOVNA

📍 Republic of Kazakhstan, Karaganda city, ul. University, 28/2, KarU named after Academician E. A. Buketov



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🌐 [http://www.researcherid.com/rid/ U-5955-2018](http://www.researcherid.com/rid/U-5955-2018)



| Date of birth: 01/06/1972

PLACE OF WORK, POSITION

KarU named after Academician E. A. Buketov, Faculty of Physics and Technology, Head of the Department of Engineering Thermophysics named after Professor Akylbayev Zh.S.

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Candidate of Technical Sciences, Associate Professor

WORK EXPERIENCE

Place and date

- 1994-1998 – Engineer of the Department of General and Theoretical Physics of the E. A. Buketov KarSU
- 1998-1999 – Trainee researcher of the Department of Thermophysics of the E. A. Buketov KarSU
- 2002-2005 – Lecturer of the Department of Thermophysics of the E. A. Buketov KarSU
- 2005-2011 – Senior lecturer of the Department of Engineering Thermophysics named after Professor Akylbayev Zh. S. KarSU named after E. A. Buketov
- 2011-2018 – Associate Professor of the Department of Engineering Thermophysics named after Professor Akylbayev Zh. S.
- From 2019 to the present – Professor of the Department of Engineering Thermophysics named after Professor Akylbayev Zh. S.
- From 2016 to the present – Head of the Department of Engineering Thermophysics named after Professor Akylbayev Zh. S. KarU named after E. A. Buketov

EDUCATION AND PROFESSIONAL TRAINING

Education

- 1989-1994 – Karaganda State University named after Academician E. A. Buketov, Faculty of Physics, specialty - "Physics", qualification – Physicist. Teacher.
- 1999-2002 – Post-graduate student of the Department of Thermophysics of the E. A. Buketov KarSU

Professional trainings, Scientific trips

- July-August 2017 - grant scientific internship (Prague, Czech Republic)
- March-April 2019 - scientific internship at Tomsk State University (Tomsk, Russia)
- June-July 2019 - scientific internship at South-West University "Neofit Rilski" (Blagoevgrad, Bulgaria)

SKILLS DEVELOPMENT INFORMATION

- "Advanced training of teachers of pedagogical workers of the Republic of Kazakhstan (240 hours)" No. 0129773 dated 04/26/2014 (JSC "NTSPK" Orleu "");
- "Modeling educational programs at the university". 11/25/2016 - 12/09/2016 Lecturer:

Doctor of Technical Sciences, Professor Evgeniy Evgenievich Vitvitskiy, (KSU named after E.A.Buketov);

- "Improving the teaching of disciplines in the direction of technical science and technology" No. 638017 dated June 10, 2017 (KSU named after E.A.Buketov);
- "Energy-efficient and resource-saving technologies in industry by specialty 5B071700-Heat and Power Engineering, 5B073100-The Safety of Human Life Protection of Environment and 5B072300-Technical Physics" 03.09.2018-27.09.2018 Lecturer: Mitko Stoev (Bulgaria), (KarSU named after E.A. Buketov).
- "Fundamentals of Environmental Management". 03.12.2018 –22.12.2018 Lecturer: Doctor of Physical and Mathematical Sciences, Professor of Moscow State University named after M.V. Lomonosov V.A. Kulbachinsky, Russian Federation. (KarSU named after E.A. Buketov).
- "Fundamentals of Life Safety" 18.05.– 03.06.2019, Institute for Advanced Studies and Additional Education. (KazNU named after Al-Farabi, Almaty).
- "Preparing a university teacher for training with the use of distance learning technologies." KarSU named after E.A. Buketova. Certificate No. 465019. 09/09/2019 - 09/14/2019
- "Methods for obtaining low-emission liquid fuel for the generation of thermal energy." 09/23/2019 –10/17/2019 Lecturer: PhD, Associate Professor of the Southwestern University "Neofit-Rilskiy" Mitko D. Stoev, Bulgaria.
- "Ensuring the safety of technological processes". 03.12.2019 –27.12.2019 Lecturer: Doctor of Physical and Mathematical Sciences, Professor of Moscow State University named after M.V. Lomonosov V.A. Kulbachinsky, Russian Federation.
- "Distance Education in the context of Pandemic: Teacheng, Learning and Assessment" III Annual Eurasian Forum. 10/16/2020. Independent agency for quality assurance in Education. IQAA.
- "Anti-corruption management systems" No. 1376-AVISO-20. Training of specialists in accordance with the requirements of the international standard ISO 37001: 2016. ISO Implementation Agency. 2020 g.

PERSONNEL QUALITIES

Native language **Kazakh language**

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral speech		
Russian	In perfection	In perfection	In perfection	In perfection	in perfection
English	With dictionary	With dictionary	With dictionary	With dictionary	with dictionary

Digital skills

USER: MICROSOFT OFFICE (WORD, EXCEL, POWERPOINT), GRAPHIC EDITORS (CORELDRAW, AUTOCAD), COMPUTER PROGRAMS (MATLAB, MATHCAD, NEUROSHHELL), KNOWLEDGE OF OPERATING SYSTEMS: WINDOWS AND IOS.

Other skills (hobbies)

reading, listen to music, traveling

ADDITIONAL INFORMATION

Main publications

1. K. M. Shaimerdenova, N.N. Shuyushbaeva, G.A.Bulkairova, D.A.Ospanova. Electrohydraulic pulse technology of drilling wells for installation of heat exchange elements of heat pumps.//Life Science journal. – 2014. – Vol.11. - №11. – P.469-472. Scopus (SJR-0.125, SNIP – 0.663).
2. K. M. Shaimerdenova, K. Kusaiynov, N. N. Shuyushbayeva and Dr. Microstructural analysis of the positive electrode of electrohydraulic drill.//Technical Physics. Pleiades Publishing. –2015. – V.60. – №12.–P.1884-1886. Thomson Reuters (IF–0.569), Scopus (CiteScore - 0.70, SJR- 0.390, SNIP – 0.970).
3. K. M. Shaimerdenova, K. Kusaiynov, N. N. Shuyushbayeva, B. R. Nusupbekov. On electric-pulse well drilling and breaking of solids.//Technical Physics. Pleiades Publishing. – 2017. – V.62. – №6. – P. 867-870. Thomson Reuters (If - 0.632), Scopus (CiteScore - 0.70, SJR – 0.390, SNIP-0.970).
4. K. M. Shaimerdenova, K. Kusaiynov, N.K.Tanasheva. Flow Past the Sail Blade of a Wind Turbine.//Journal of Engineering Physics and Thermophysics. Springer GmbH & Co, Auslieferungs-Gesellschaft. – 2015. – Vol 88. – № 2. – P. 497-503. Scopus (CiteScore - 0.48, SJR- 0.316, SNIP – 0.917),
5. K. M. Shaimerdenova, K.Kusaiynov, N.N.Shuyushbayeva. Study of the Heat-Transfer Processes of Tubular Elements of Ground Heat Exchangers.//Journal of Engineering Physics and Thermophysics. – 2015. – Vol.88. – № 3. – P. 676-680. Scopus (CiteScore - 0.48, SJR- 0.316, SNIP – 0.917),
6. K. M. Shaimerdenova, K. Kusaiynov, N.K. Tanasheva. The Effect of Porosity on the Aerodynamic Characteristics of a Rotating Cylinder. //Modern Applied Science. – 2015. – Vol 9. – No 2. – P.218-227. Scopus (SJR - 0.188, SNIP – 1.495),
7. Shaimerdenova K. M., Nusupbekov B. R., Kuritnik I. P. Device for testing heating networks. // Bulletin of Karaganda University. - Series physics. – 2016. – № 2 (82). - P. 56-61.
8. K. M. Shaimerdenova, B. B. Kutum, S. E. Suleimenova. Analysis of the effect of electrohydroimpulse action on the physical and chemical parameters of water. // Scientific and Technical journal "Bulletin of the Almaty University of Energy and Communications". – 2017. – №1(36). – Pp. 44-49.
9. Shaimerdenova, Z. K. Aitpaeva, A. K. Khasenov. Structural changes of the electrodes and their failure during electro-pulse water treatment. // Eurasian Journal of Physics and Technology. - 2017. Tom 14. – № 1(27).-Pp. 103-108.
10. Shaimerdenova, K. Kusayynov, N. N. Shuyushbaeva, B. R. Nusupbekov. On electropulse drilling of wells and destruction of solid bodies // Technical Physics. Pleiades Publishing House. - 2017. - V. 62. - No. 6. - pp. 867-870. Thomson Reuters (IF – 0.632), Scopus.
11. Shaimerdenova, A. S. Tusypbaeva. Using a workbook on the subject "Physics and Astronomy" in English in high school. // Bulletin of the Karaganda University. - Series "Physics". – 2018. - № 1 (89). – Pp. 93-98.
12. Shaimerdenova K. M., Shrager E. R., Tusypbaeva A. S., Nausharban Zh. Investigation of heat transfer processes in vertically arranged heat exchangers. Bulletin of the Karaganda University. - Series "Physics". – 2019. – №2 (94). – Pp. 66-73.
13. Shaimerdenova K. M., Shunkeev D. A., Ospanova D. A. Improvement of fuel properties using the crushing and sorting complex FGH-12 // News of higher educational institutions. Eurasian Journal of Physics and Technology. – 2019. – Vol..16. – №2(32). – P. 68-73.
14. Kunakbayev T., Tanasheva N. K., Shaimerdenova K.M., Dyusembayeva A. Experimental and theoretical studies of the efficiency of autonomous multi-storey wind power plants. Technical physics. Pleiades Publishing House. – 2020. – V. 65. – No. 1. – P.37-40.

The number of published scientific and educational works-more than 120, of which:

- in journals based on Scopus – 9;
- in journals based on Clarivate Analytics – 8;
- in publications recommended by COXON MES RK – 30;
- in publications published in the RSCI – 8 database;
- monographs – 3;
- textbooks, educational guidelines, electronic textbooks (co-authored) – 6;
- patents: Eurasian – 1, innovative – 3

Participation in the implementation of scientific projects

1. "Electrohydroimpulse technology for processing sludge from Shubarkul coals to produce water-coal fuel" (state registration No. 0212RK02780), 2012-2014. Senior researcher.
2. "Development of an effective technology for heat removal from heat pump wells based on electrohydroimpulse technology" (state registration No. 0115RK00971), 2015-2017 Project manager.
4. "Methods of replenishment of water resources by electric discharge technologies of purification and activation with a positive effect on the vital activity of plants and living organisms" (State registration No. 0115RK00970), 2015-2017. Project manager.

Awards and titles

Winner of the award named after Professor Aryngazin K. M.
Winner of the title "Best University teacher" (MES RK, 2018)
Honorary diploma of the Rector for his contribution to the development of the university
Diploma of the Minister of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan

Courses

1. Computer technologies in heat and power calculations
2. Applied thermophysics
3. Technical thermodynamics
4. Computer technologies for processing experimental data
5. Astronomy
6. Information systems in heat and power engineering and heat technology
7. Physical methods of non-destructive testing
8. Destruction of materials by underwater electrical explosion.

Professional and scientific interests

– innovative technology, electrohydroimpulse technology, water treatment, utility models, industrial designs, electrical engineering
– energy audit, alternative energy, solar energy

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID: U-5955-2018
ORCID ID: 0000-0002-9588-4886
RSCI: 4323-3186
Author ID Scopus: 56604144400