

PERSONAL INFORMATION

BULKAIROVA GULDEN AITBAYEVNA



📍 Republic of Kazakhstan, Karaganda city, ul. University, 28, KarU named after academician. A. Buketov



✉ gulden2111@mail.ru



🗓 | Date of birth: 21/11/1975

PLACE OF WORK, POSITION

KarU named after Academician E. A. Buketov, senior lecturer

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Master of Physics

WORK EXPERIENCE

Place and date

- 1998-2001-Teacher of mathematics and computer science in Secondary School No. 57
- 2001-2002-Teacher of physics and computer science in Secondary School No. 27
- 2005-2009 – lecturer of the Department of Engineering Thermophysics of the E. A. Buketov KarSU
- From 2009 to the present –Senior lecturer of the Department of Engineering Thermophysics named after Professor Zh. S. Akylbayev of the E. A. Buketov KarSU

EDUCATION AND PROFESSIONAL TRAINING

Education

- 1994-1997 – KarSU named after Academician E. A. Buketov, Faculty of Physics. Specialty of Physics. Qualification-teacher of physics and computer science
- 2001-2003. KarSU named after Academician E. A. Buketov, Faculty of Physics, Faculty of Physics, qualification-Master of Physics
- 2003-2005. KarSU named after Academician E. A. Buketov, Faculty of Physics. Postgraduate student, specialty 01.04.14-Thermophysics and theoretical heat engineering

Professional trainings, Scientific trips

- 01.07.2011-30.11.2011-scientific internship of young scientists at Tomsk State University (Tomsk, Russia)
- 01 01.06.2017-30.06.2017-scientific internship at Tomsk State University (Tomsk, Russia)

SKILLS DEVELOPMENT INFORMATION

- "Basic principles, features and methods of operation on modern chromatographs and spectrometers" No. 271009 of 14.11.2009 (KarSU named after E. A. Buketov);
- Нелиней "Nonlinear phenomena, heat and mass transfer" No. 390009 of 15.12.2009 (KarSU named after E. A. Buketov);
- Импуль "Pulsed technologies for obtaining nanomaterials" No. 497010 dated 26.06.2010 (KarSU named after E. A. Buketov);
- "Development and use of multimedia and interactive tools in the educational process

and teaching methods in the conditions of credit and distance technologies" No. 079011 of 29.06.2011 (KarSU named after E. A. Buketov);

- "Methods of teaching on distance learning technology" - No. 350012 of 30.03.2012. (KarSU named after E. A. Buketov);
- "Development of e-learning products". No. 610012 of 09.06.2012 (KarSU named after E. A. Buketov);
- «Energy for our future: Green energy». 23.11.2014-20.12.2014 Lecturer: Mitko Stoev (Bulgaria), (E. A. Buketov KarSU);
- "Improving the teaching of disciplines in the field of technical science and technology" No. 638017 of 10.06.2016 (KarSU 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), (E. A. Buketov KarSU);
- Основы "Fundamentals of environmental management". 03.12.2018 -22.12.2018 Lecturer: Doctor of Ph. D., Professor of Lomonosov Moscow State University Kulbachinsky V. A., Russian Federation
- "Preparation of a university teacher for training with the use of distance educational technologies". KarSU named after E. A. Buketov. Certificate No. 478019. 09.09.2019-14.09.2019.
- "Methods for producing low-emission liquid fuel for generating thermal energy". 23.09.2019 -17.10.2019 Lecturer: PhD, Associate Professor of the Southwestern University "Neofit-Rilsky" Mitko D. Stoev, Bulgaria;
- □ "Ensuring the safety of technological processes". 03.12.2019 -27.12.2019 Lecturer: Doctor of Ph. D., Professor of Lomonosov Moscow State University Kulbachinsky V. A., Russian Federation;
- "Intensive English Language Course" (Beginner level). 2019-2020 academic year (E. A. Buketov KarSU).

PERSONNEL QUALITIES

Discipline, responsibility, punctuality, determination, fairness, perseverance, attentiveness

Native language

Kazakh

| LANGUAGE | UNDERSTANDING | | SPEAKING | WRITING |
|----------------|-------------------|-------------------|-------------------|-------------------|
| | Hearing | Reading | Oral speech | |
| Russian | in perfection | in perfection | in perfection | in perfection |
| English | With a dictionary | With a dictionary | With a dictionary | With a dictionary |
| | | | - | |

Digital skills

ADVANCED USER: MICROSOFT OFFICE (WORD, EXCEL, POWER POINT) KNOWLEDGE OF OPERATING SYSTEMS

Other skills (hobbies)

read books

ADDITIONAL INFORMATION

- Electro-hydraulic pulse technology of drilling wells for installation of heat exchange elements of heat pumps. //Life Science journal. – 2014. – Vol.11. - №.11. – P.469-472.
- Electrohydraulikalyk adispen ondelgen quartz mineralynn mikrokyurlymydyk analizi men kospa elementterinin molsherin zertteu.- //Bulletin of the Karaganda University. - Physics series. – 2015. - №1 (77). – P. 66-71.
- The effect of electrical discharges on the structure and properties of the electrode system during hydro-pulse water treatment. // Bulletin of the Karaganda University. - Physics series. – 2015. - № 3 (79). – P. 49-55.
- Studies of the effect of an underwater electric discharge on the structure of the quartz mineral. // Izvestiya vuzov. 2017. - No. 1. - P. 56-60.
- Study of the effect of electrohydroimpulse shock waves on the crushing of the natural mineral quartz. Science, new technologies and innovations of Kyrgyzstan. 2017. - No. 1. - pp. 86-90.
- Structural changes in electrodes and their failure on electric pulse treatment of water. // Physical technical Journal. – 2017. – Vol.14. – No.1(27). – P.103-108.
- Research of electrohydraulic destruction of mineral quartz. // Вестник Карагандинского университета. – Серия физика. – 2018. - № 1 (89). – С.81-87.
- Effects of electrohydroimpulse discharges on the crushing of the natural mineral quartz. // Physical technical Journal. – 2019.- 16(2).-P. 89–93.
- Electrohydropulse method for destruction of natural minerals. Bulgarian Chemical Communications. – 2020. – Vol. 52, Issue A. – P. 185-187(CiteScore- 0,4; SJR - 0.142; SNIP 2019 – 0,232; процентиль – 13). DOI: 10.34049/bcc.52.A.192.

Main publications

Participation in the implementation of scientific projects

- Development and production of electrohydropulse crushing plant for mineral quartz "EGO–KЦ1" (№ state registration 0106 RK 00461, customer – MES; 08.06.2006-31.12.2006, position – researcher)
- Methods of replenishment of water resources electric-discharge technologies of purification and activation with a positive effect for the life of the plants and living organisms" (№ state registration 0115PK00970, customer – MES; 2015-2017; position – research fellow)

Awards and titles

- Letter of thanks for the leadership of the scientific work of the student winner of the Republican contest for the best work of students in natural, technical and humanitarian sciences "Scientists of the Future" Council of Young Scientists under the Foundation of the First President of the Republic of Kazakhstan-Leader of the Nation (2014).
- Certificate of Honor for conscientious work and significant contribution to the development of the university in connection with the celebration of the Independence Day of the Republic of Kazakhstan (2019)

Courses

1. Engineering hydro-gas dynamics
2. Heating and heating networks
3. Mode and operation of heat carriers
4. Physical and chemical methods of water treatment
5. Fire-fighting water supply
6. Waste water treatment technology

Professional and scientific interests

- thermophysics and theoretical heat engineering
- electro-pulse phenomena in heterogeneous media

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID:
ORCID ID: <https://orcid.org/0000-0001-7390-2214>
Идентификатор РИНЦ:
Author ID Scopus: 56286399600