

PERSONAL INFORMATION



Ospanova Didar

📍 Republic of Kazakhstan, Karaganda, ul. Universitetskaya, 28, KarU named after Academician E. A. Buketov



✉ bota_didar@mail.ru



🗓 | Date of birth:

10/04/1981г.

PLACE OF WORK, POSITION

KarU named after Academician E. A. Buketov, senior lecturer of the Department of Engineering Thermophysics named after Professor Zh. S. Akylbayev

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

Master of Physics

WORK EXPERIENCE

Place and date

- 2006-2009. Teacher of the Department of Thermophysics of KarSU.
- 2009-until now Senior lecturer of the Department of Engineering Thermophysics named after Professor Zh. S. Akylbayev KarU

EDUCATION AND PROFESSIONAL TRAINING

Education

- 1998-2002-Karaganda State University named after E. A. Buketov, specialty Physics, qualification Physicist. Teacher.
- 2002-2004-Karaganda State University named after E. A. Buketov, Master of Physics.
- 2004-2006. Karaganda State University named after E. A. Buketov, Postgraduate course in specialty 01.04.14. - Thermophysics and theoretical heat engineering.

Professional trainings, Scientific trips

- 2009 internship of young scientists on the basis of Tomsk State University departments for the support of the Russian Foundation for Basic Research. Russia. Tomsk. (duration of the internship is 4 months).
- 2012. internship of young scientists on the basis of Tomsk State University to support basic scientific research of young scientists. Russia. Tomsk. (the duration of the internship is 5 months).
- 2013. internship of young scientists at the Tomsk State University to support basic scientific research of young scientists. Russia. Tomsk. (duration of the internship is 2 months).

SKILLS DEVELOPMENT INFORMATION

- 09.11.2009-14.11.2009 The course "Basic principles of osebennosti and methods of work on modern chromatographs and spectrometers". Certificate No. 272009 (KarSU, Karaganda).
- 09.12.2009-15.12.2009 Course "Nonlinear phenomena, heat and mass transfer". Certificate No. 389009 (KarSU, Karaganda).
- 25.10.2010-06.11.2010 Course "Pulsed technologies and production of nanostructured materials with specified properties". Certificate No. 550010 (KarSU, Karaganda).
- 17.10.2011-28.10.2011 Course " Underwater electric explosion and technologies of processing of hydrocarbon and mineral raw materials. Dispersions, coatings, and structures with a developed surface". Certificate No. 467011 (KarSU, Karaganda)
- 20.03.2012-04.04.2012 The course "Teaching methods for distance learning technology". Certificate No. 271012 (KarSU, Karaganda).
- 28.05.2016. JSC "National Center for Advanced Training of Orleu ""Zamanau pedagogikalyk technologiylar" ZHOO pedagogikalyk mamandyktar. Certificate No. 0129884 (Almaty). -
- 25.11.2016-09.12.2016. attended a course of guest lectures on "Modeling of educational programs in higher education". Lecturer: Evgeny E. Vitvitsky, Doctor of Technical Sciences, Professor. Certificate (KarSU, Karaganda).
- 05.06.2017-10.06.2017 The course "Improving the teaching of disciplines in the field of technical science and technology". Certificate No. 027017 (KarSU, Karaganda). -
- 03.12.2018-22.12.2018. attended a course of guest lectures on "Fundamentals of environmental management". Lecturer: Vladimir A. Kulbachinsky, Doctor of Ph. D., Professor. Certificate (KarSU, Karaganda).
- 03.09.2018-27.09.2018 attended a course of guest lectures on "Energy-efficient and resource-saving technologies in industry by specialty 5B071700-Heat and Power Engineering, 5B073100 - The Safety of Human Life and Protection of Environment and 5B072300-Technical Physics" Lecturer: Mitko Dinev Stoev (Bulgaria). Certificate (KarSU, Karaganda).
- 09.09.2019-14.09.2019 The course "Preparation of a university teacher for training with the use of distance educational technologies". Certificate No. 473019 (KarSU, Karaganda).
- 03.12.2019-27.12.2019 attended a course of guest lectures on "Ensuring the safety of technological processes". Lecturer: Vladimir A. Kulbachinsky, Doctor of Ph. D., Professor. Certificate (KarSU, Karaganda).
- 23.09.2019-17.10.2019 attended a course of guest lectures on the topic "Methods for obtaining low-emission liquid fuel for generating thermal energy". Lecturer: Mitko D. Stoev. Certificate (KarSU, Karaganda).
- 22.02.2021-06.03.2021 Course "Development and implementation of improvement measures (electrical shop, turbine shop and boiler shop)" Certificate. (Karaganda Power Center LLP (CHPP-1), Karaganda).

PERSONNEL QUALITIES

Native language

Kazakh is the native language, Russian is fluent.

LANGUAGE	UNDERSTANDING		SPEAKING	WRITING
	Hearing	Reading	Oral speech	

Digital skills

ADVANCED USER: MICROSOFT OFFICE (WORD, EXCEL, POWER POINT), GRAPHIC EDITORS (CORELDRAW, ADOBE PHOTOSHOP), CALCULATION PROGRAMS (MATLAB, MATHCAD, MGUA)

Other skills (hobbies)

I am responsible for professional practice at the Department of Engineering Thermophysics named after Professor Zh.S. Akylbayev. I conduct negotiations with industrial enterprises in the field of heat and power engineering and environmental protection. I conduct paperwork with employers in connection with my daily work.

ADDITIONAL INFORMATION

Main publications

1. Kussaiynov K., Shuyushbayeva N.N., Shaimerdenova G.M., Bulkairova G.A., Ospanova D.A. Electro-hydraulic pulse technology of drilling wells for installation of heat exchange elements of heat pumps. Life Science Journal.-2014.-Volume 11.-Iss.11s.-P.469-472.(http://www.lifesciencesite.com/106_26036life1111s14_469_472.) (SJR_2013:0,14 Scopus).
2. Оспанова Д.А., Сақыпова С.Е., Шуюшбаева Н.Н., Төсекбай А.Ә. Айнымалы кималы арнада электрогидроимпульстік эффект кезінде қозғалатын газ сұйықты ағынның параметрлерін зерттеу. Вестник Карагандинского университета, -Серия Физика. 2015.– №2(78). – С.61-67.
3. Sakipova S.E., Nussupbekov B.R., Khassenov A., Sakipova Sh.E. Ospanova D.A. Effect of electric pulse processing on physical and chemical properties of inorganic materials IOP Conference Series: Materials Science and Engineering. 81 (2015) 012051 doi:10.1088/1757-899X/81/1/012051 (Scopus, SJR-0,146).
4. Shuyushbayeva, N. N. Kussaiynov, K. Stoev, M. Shaimerdenova, K. M. Akhmadiev, B. A. Sadenova, K. K., Ospanova D.A. Study of regularities of changes in the temperature near the U-shaped ground heat exchangers Bulletin of the Karaganda university. – Physics Series. – 2015. - № 4 (80). – P. 39-42.
5. Shragar E.R., Dyusembaeva A.N., Kussaiynova A.K., Tanasheva N.K., Bakhtybekova A.R. Ospanova D.A. Simulation of flow of the blade wind turbine. Bulletin of the Karaganda university. – Physics Series. – 2016. - № 4 (84). – P. 20-23.

6. Кусаиынов К., Байкенов М.И., Сатыбалдин А.Ж., Танашева Н.К., Саденова К.К., Булкаирова Г.А., Тургунов М.М., Оспанова Д.А. Установка для переработки нефтешламов и нефтесодержащего техногенного сырья. Патент на полезную модель. №96235 от 26.05.2016г.
7. Оспанова Д.А. Исследование распределения импульсного давления ударной волны газожидкостного потока. «Наука, Новые технологии и инновации Кыргызстана»: №2 Республиканский научно-теоретический журнал. Бишкек, 2017.-С.9-14.
8. Оспанова Д.А., Нусупбеков Б.Р., Сакипова С.Е., Танашева Н.К., Рахманкызы А. Численный расчет коэффициента теплоотдачи газожидкостного потока по длине трубы с переменным сечением. «Известия вузов Кыргызстана»: №2 Республиканский научно-теоретический журнал. Бишкек, 2017.-С.11-14.
9. Сатыбалдин А.Ж., Айтпаева З.К., Рахимжанова Н.Р., Каримова А.Б., Оспанова Д.А. Квантово-химический расчет деструкции и гидрирования нефтяного асфальтена с помощью электрогидроимпульсных ударных волн. Sciences of Europe. 2017.- Vol.1. - No. 20(20). –P.30-34
<http://european-science.org/wp-content/uploads/2017/11/VOL-1-No-20-20-2017.pdf>.
10. Satybaldin A.Zh., Aitpaeva Z.K., Ospanova D.A. INVESTIGATION OF THE EFFECT OF THE CATALYST ON THE COMPOSITION AND STRUCTURE OF PETROL FRACTION IN OIL UNDER ELECTRIC HYDROPULSE PROCESSING. Eurasian Physical Technical Journal. – 2017. – Vol.11. – №2(22). – P.40-46.
- 11 Оспанова Д.А., Айтпаева З.К., Бакиева Ж.К., Рымбекова И.Б., Шапай М. Күрдәлі құбырлардағы соққы толқын құбылыстарын зерттеудің тәжірибелік нәтижелері. Хаос и структуры в нелинейных системах. Теория и эксперимент: Материалы 11-й Международной научной конференции. Караганда: Изд-во КарГУ, 2019.- С.318-321.
- 12 Shaimerdenova K.M., Shunkeyev T.A., Ospanova D.A. Improving fuel properties with the USE of fgx-12 crushing and sorting complex. Eurasian Physical Technical Journal. – 2019. Vol.16. – №2(32). – P.68-73.

The number of published scientific and educational works-more than 105, including:

- in journals based on Scopus - 5;
- in journals based on Clarivate Analytics - 5;
- in publications recommended by COXON MES RK – - 30;
- in publications placed in the RSCI database, including journals from the list of the Higher Attestation Commission – - 35.

The Hirsch index based on Scopus - 1. The
Hirsch index based on Clarivate Analytics-0.
The Hirsch index based on RSCI-1.
The Hirsch Index based on Google Scholar-1.

Participation in the implementation of scientific projects

- 508-F-14 "Electro-pulse technology for extracting rare metals from metal-containing and man-made raw materials" from 04.03.14 until the expiration of the employment contract.

- 523-F-15 "Wind turbine for low wind speeds with a dynamically variable surface shape of the blades" from 02.04.15 until the expiration of the employment contract.

International projects:

- "GEOCAVOC-Transfer of professional education in the field of logistics, mechatronics and sustainable energy saving in Kazakhstan" with the Otto von Guericke University in Magdeburg (performer status);

- (618835-EPR-1-2020-1-KZ-EPPKA2-CBHE-SP) Erasmus+ Implementing Dual System in Kazakhstan/Kazdual (status-performer).

- Gratitude to the supervisor for the professional training of the participant of the International Competition of coursework/projects for students, undergraduates Intercllover-2018, held on December 20, 2018, Nizhny Novgorod.

- Certificate of Honor of the Minister of Education of the Republic of Kazakhstan (2019)

- Algys hat to the head of the team of Ospanova Didar Asylkyzy (KarA) for participation in the Republican Subject Olympiad in the specialty "Life safety and environmental protection" (14.03.2020, Karaganda, KarSTU).

- Certificate to the head of the team of Ospanova Didar Asylkyzy (KarA) for participation in the Republican subject Olympiad in the specialty "Heat and Power Engineering" (2021 Semey, Shakarim University).

Student Awards (Scientific competitions):

- diploma of the II degree of Tosekbay Akerke according to the results of the republican competition for the best research work of students of higher educational institutions of the Republic of Kazakhstan, Astana 2015. (Supervisor Ospanova D. A.)

- diploma of the III degree of Temirov Akmaral on the result of the international competition of term papers/projects for students, undergraduates Intercllover-2018, held on December 20, 2018, Nizhny Novgorod. (Scientific supervisor Ospanova D. A.).

- diploma of the II degree of Temirov Akmaral as a result of the international essay contest "The most outstanding scientist" for students, undergraduates, postgraduates held on the initiative of the project "Intercllover.ru" January 20, 2019, Nizhny Novgorod. (Supervisor Ospanova D. A.).

- diploma of the III degree Mukhatbekova Meruert according to the results of the republican competition of research works among higher educational institutions of the Republic of Kazakhstan for 2020 (supervisor Ospanova D. A.).

Student Awards (Olympiads):

- diploma of the second place team at the Republican subject (Heat and Power engineering) Olympiads of students of higher educational institutions of the Republic of Kazakhstan (Ergali Arailym, Toleukayyr Tokzhan, Kivrin Vyacheslav), Almaty, 2015 (team leader Ospanova D. A.).

Awards and titles

- diploma of the II place in the Republican subject (thermal Power engineering) competitions students of higher educational institutions of the Republic of Kazakhstan (Totobola Glnr, Sekerbaev Gulim, Dragina Diana), Astana, 2018. (managed team Ospanova D. A.).
- diploma of the II place in the Republican subject (thermal Power engineering) competitions students of higher educational institutions of the Republic of Kazakhstan (Sekerbaev Gulim in the personal account), Astana, 2018. (managed team Ospanova D. A.).
- diploma of the III place in the Republican subject (thermal Power engineering) competitions students of higher educational institutions of the Republic of Kazakhstan (Totobola Glnr in the personal account), Astana, 2018. (managed team Ospanova D. A.).
- diploma of first place in the Republican subject (life Safety and environmental protection) competitions students of higher educational institutions of the Republic of Kazakhstan (Alilla Given in your personal account), Aranda, 2020. (managed team Ospanova D. A.).

Courses

1. Introduction to the specialty
2. Boiler plants and steam generators
3. Turbine installations of thermal power plants
4. Theory and calculation of steam generators
5. Superchargers and heat engines
6. Heat and mass transfer
7. Fundamentals of heat transfer

Professional and scientific interests

- pulse pressures, underwater explosion, bubble cluster structure, variable cross-section channel, gas-liquid flow; heat transfer coefficient; confuser; diffuser; group argument accounting method, MGUA; regression analysis; polynomial, diffuser, confuser, electrohydroimpulse effect, piezometric sensor, pressure pulse, shock wave.
- boiler installations, steam generators, turbine installations, heat and mass transfer, thermal calculation of boiler-turbine installations.

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID: [U-6311-2018](#)

ORCID ID:

RSCI: 6402-1857

Author ID Scopus: