

## PERSONAL INFORMATION



### PLACE OF WORK, POSITION

### SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

### WORK EXPERIENCE

#### Place and date

### EDUCATION AND PROFESSIONAL TRAINING

#### Education

#### Professional trainings, Scientific trips

### SKILLS DEVELOPMENT INFORMATION

# MUSSENOVA ELMIRA KUANAROVNA

📍 Republic of Kazakhstan, Karaganda city, Universitetskaya str., 28 a, Academician E.A. Buketov Karaganda

🏢 University 0

✉ [emusenova@mail.ru](mailto:emusenova@mail.ru)



| Date of birth: 25/08/1972

Non-public joint-stock company "Karaganda University named after E.A. Buketov, Faculty of Physics and Technology, Associate Professor of the Department of Physics and Nanotechnology

Candidate of Physical and Mathematical Sciences

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– **1995-2000** - Engineer of the Department of General and Theoretical Physics, KarSU named after E.A. Buketova

– **2001-2004** – Lecturer of the Department of General and Theoretical Physics, KarSU named after E.A. Buketova

– 2005-2010 - Senior Lecturer, Department of General and Theoretical Physics, KarSU named after E.A. Buketova

– **2011-2021** – Associate Professor of the Department of Physics and Notechnology, KarU named after E.A. Buketova

- **2011-2018** - Deputy Dean for Academic Affairs of the Faculty of Physics and Technology, KarSU. E.A. Buketova

- **2019** - and about. Head of the Center for Distance Education, KarU named after E.A. Buketova

- **2019-2021** – Head of the Office-Registrar, KarU named after E.A. Buketova

- **2021-present** - Associate Professor of the Department of Physics and Nanotechnology, E.A. Buketov KarU

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– **1994** – Karaganda State University named after Academician E.A. Buketova, "Teacher of Physics and Informatics"

– Language internship at the language school "Jipka", (Prague, 2017);

– Scientific internship "Solar Energy Center", Southwestern University "Neofit Rilski" (Blagoevgrad, Bulgaria, 2018)

– Scientific internship under the program "Mathematical modeling of a rotating cylinder in an air flow" (Tomsk, 2018).

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– Advanced training in the educational program of teachers of pedagogical specialties of universities (Almaty, 2013);

– Advanced training under the program of additional professional education courses for graduate students of higher educational institutions that train teachers, developed on the basis of level programs for advanced training of teachers (2015);

– Advanced training in the profile "Actual problems of general, theoretical and applied physics", (2017);

– Courses on the topic "Methodology for the development of critical thinking" (2017);

- Courses on the educational program for advanced training of teaching staff of universities that train teaching staff, as part of the updated content of secondary education in the Republic of Kazakhstan, developed by the Center for Pedagogical Excellence of AEO "NIS" (2018);
- Course on the topic “Orta bilim berudi zhangartu ayasynda pedagogical mamandyktardyn bilim beru bagdarlamalaryn azirleuge bagyttalghan tasilder” (2018);
- Course on the program for improving professional and pedagogical qualifications on the topic "Basic principles of modern physics" (Tomsk, 2018);
- Guest lecturer courses on the topic “Actual problems of modern physics” (Karaganda, 2018);
- Course "Organization of the educational process within the framework of the academic independence of universities" (2019);
- Course on the training program for specialists in accordance with the requirements of the international standard ISO 37001:2016 "Anti-Corruption Management System" (2020);
- Course “Administrative management. Management in Education" (2020);
- A course on training experts in the evaluation of textbooks and educational and methodological complexes (online, 2021).

## PERSONNEL QUALITIES

**Native language** **Kazakh**

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING READING
	Hearing	Reading	Oral speech	Hearing	
<b>Russian</b>	in perfection	in perfection	in perfection		in perfection
<b>LANGUAGE CERTIFICATE: No</b>					
<b>English</b>	with dictionary	with dictionary	with dictionary		with dictionary
<b>LANGUAGE CERTIFICATE: No</b>					

**Digital skills** advanced user: MICROSOFT OFFICE (WORD, EXCEL, POWER POINT).

**Other skills (hobbies)** reading, listen to music, traveling

## ADDITIONAL INFORMATION

## Main publications

1. Мусенова Э.К., Кудусов А.С., Сейсембекова Т.Е., Абдирова Н.Т. Technique of school physical experiment Караганда: «Типография Арко», 2018. – 260 с.(Рекомендовано УМО РУМС)
2. Арынгазин К.М., Мусенова Э.К., Кудусов А.С. Методы геометрических идей в теоретической физике Караганда: «Типография Арко», 2018. – 340 с.
3. Нусупбеков Б.Р., Хасенов А.К., Мусенова Э.К. и др. Электрогидроимпульсное устройство для тонкого измельчения материалов Патент РК на полезную модель № 3270 от 18.10.2018г.
4. Т.А. Koketai, Tussupbekova A.K., E.K. Mussenova, A.K. Mussabekova Investigation the thermally stimulated luminescence of a lithium sulfate crystal // Book of abstract. The 10th International Conference on Luminescent Detectors and Transformers of Ionizing Radiation (9-14 September 2018). – Prague. – 2018. – P. 74.
5. Koketai T.A., Tussupbekova A.K., Mussenova E.K. Investigation of optical spectra of dielectric crystals // IOP Conference Series: Journal of Physics. - Vol.1115. - Amsterdam, IOP Publishing Ltd, 2018. – P. 1-3/ 052005 doi :10.1088/1742-6596/1115/5/052005
6. Tanasheva N.K., Shuyushbayeva N.N., Mussenova E.K. / Studying the Dependence of the Aerodynamic Characteristics of Rotating Cylinders on the Rake Angle of Air Flow / Technical Physics Letters. – 2018. Volume 44, Issue 9. – P. 787-789.
7. Арынгазин К.М., Мусенова Э.К., Сейсембекова Т.Е., Кисабекова П.А. Физические и геометрические идеи как закон единства противоположностей. //Вестник Карагандинского государственного университета. – Серия физика. – 2018. – № 3(91). – С. 84-92.
8. Арынгазин К.М., Мусенова Э.К., Кисабекова П.А. и др. Применение геометрических идей в нанотехнологии. Актуальные научные исследования в современном мире. – Перезелюв-Хмельницкий – 2018. – №4(36) – С. 11-17. (РИНЦ).
9. Стоев М., Шуюшбаева Н.Н., Мусенова Э.К., Танашева Н.К. Эффективное применение солнечных батареи для фильтров очистки воды Scientific discussion – Praha, 2018. – Vol 1. – N 24. – P. 48-50.
10. Мусенова Э.К., Есембекова Ж.Ж., Турсунова Ж.А., Сүйінбек Ж. Физиканы оқытуда интерактивті тапсырмалар құруда электрондық құралдарды қолдану /Вестник Актобинского регионального государственного университета им. К. Жубанова. – 2019. - №2(56). – С. 304-308.
11. Karabekova, D.Zh., Kissabekova, P.A., Kucheruk, V.Yu., Mussenova, E.K., Azatbek, Sh. Main Characteristics Of The Heat Flow Meter / Eurasian Physical Technical Journal, 2022, 19(2), С. 71–74
12. B.Nussupbekov, Ye, Oshanov, M.Ovcharov, E. Mussenova. Development and creation of a hydrodynamic liquid heating unit /Eastern-European Journal of Enterprise Technologies ISSN 1729-3774 5/8 ( 119 ) 2022. UDC 533.2 DOI: 10.15587/1729-4061.2022.264227

## h-index (Scopus) – 2

## Participation in the implementation of scientific projects

- according to the program of the international project "Erasmus+:"ENTER"-(Engineering educators pedagogical training) - "Pedagogical training of engineering teachers"
- according to the program of fundamental research "Development and creation of a prototype wind turbine for alternative power supply using a domestically produced electric generator"

## Membership in professional scientific organizations

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## Awards and titles

- Winner of the award named after Professor Aryngazin K. M.
- Winner of the title "Best University teacher" (MES RK, 2017)
- 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

"Physics", "Molecular physics", "Methods of teaching physics", "Technique of school experiment", "Theory and methods of teaching physics", "Methods for organizing and conducting a demonstration experiment in the secondary school", "Methods of teaching non-traditional sections of physics", "Methodological basics of solving physical problems", "Innovative technologies in the organization of the educational process at school", "Modern pedagogical technologies in teaching natural sciences".

## Professional and scientific interests

- didactic principles and comparative analysis of methods of teaching physics at school and university;  
- radiation physics of a solid state, luminescence of ionic crystals, modeling of physical processes;  
- Higher education pedagogy, teaching methodology, engineering psychology.

## SCIENTIFIC DATABASES IDENTIFIERS

**Researcher ID:** DKD-9274-2022  
**ORCID ID:** 0000-0001-5458-3641  
**Scopus Author ID:** 56242227100