

PERSONAL INFORMATION



Laurinas Vitautas Cheslovasovich

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🗨 What's App:

| Date of birth: 06/02/1958

PLACE OF WORK, POSITION

E.A. Buketov University of Karaganda Professor of the Department of Physics and Nanotechnology

SCIENTIFIC DEGREE, SCIENTIFIC TITLE (ACADEMIC DEGREE)

PhD in Physics and Mathematics, Associate Professor

WORK EXPERIENCE

Place and date

-1980-1987 - senior laboratory assistant at the research laboratory of the KarSU.
- 1987-2004 - Senior Engineer, Senior Lecturer, Associate Professor of the Department in different years bearing the name - Optical methods of research and analysis - Optics and wave processes - Optics and spectroscopy - Condensed matter spectroscopy - Instrumentation and nanotechnology at the E.A. Buketov University of Karaganda:
- 1998-2000 concurrently the head of the "Laser Center" of the E.A. Buketov University of Karaganda;
- 2003-2004 part-time director of the "Innovation Center" of the E.A. Buketov University of Karaganda;
- 2004-2015 - Head of the Department of Condensed Matter Spectroscopy - Instrument Engineering and Nanotechnology, of the E.A. Buketov University of Karaganda;
- 2013-2015 Project Manager "Creation of a production site and implementation of the technology of magnetron deposition of heat-resistant coatings on parts of thermal power plants".

EDUCATION AND PROFESSIONAL TRAINING

Education

-1975-1980 Karaganda State University, Faculty of Physics, Department of Optical Research and Analysis Methods, specialty – "Physicist. Teacher"
-1987-1990 - postgraduate student of KarSU
- In 1992 he defended his Ph.D. thesis for the degree of Candidate of Physical and Mathematical Sciences at the Dissertation Council No. 1 of Moscow State University named after M.V. Lomonosov
- In 2006, he was awarded the academic title of Associate Professor (Associate Professor) in the specialty "Physics".

Professional trainings, Scientific trips

- 1983-1992 - scientific trips to:
Moscow, Moscow State University named after M.V. Lomonosov, Faculty of Physics and Chemistry;
Leningrad, State Institute of Applied Chemistry; Leningrad State University, Faculty of Chemistry.
- 1984 - internship at the Institute of Physics of the BSSR (Minsk, Byelorussian SSR)
- 1991 - participation in the 14th international conference on coherent and nonlinear optics with the participation of the American Optical Society (OSA) and the International Society for Optical Engineering (SPIE) (St. Petersburg, Russia)

SKILLS DEVELOPMENT INFORMATION

- Certificate No. 625 on completion of the advanced training course on innovative technologies in the educational process (October 8-15, 2005).
- Certificate No. 260009 on advanced training in the course "Basic principles, features and methods of work on modern chromatographs and spectrometers" (November 9-14, 2009).
- Certificate No. 010010 on continuing education under the program "Development and use of multimedia and interactive tools in the educational process and teaching methods in terms of credit technology of education" (December 21, 2009 to January 23, 2010).
- Certificate No. 638010 on continuing education under the program "Nanoscience and Nanotechnology" (June 23-25, 2010).
- Certificate No. 366012 on continuing education under the program "Teaching Methods for Distance Learning Technology" (April 3-16, 2012).
- Certificate confirming that he was a teacher at the School of Improvement of Pedagogical Skills in Educational and Methodological Development of Education in the Karaganda Region (June 26, 2015).
- Certificate No. 421017 on the completion of the course on the topic "Actual problems of general theoretical and applied physics" (February 20-25, 2017).

PERSONNEL QUALITIES**Native language****Russian language**

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Hearing	Reading	Oral speech		
Kazakh	base	base	base	base	base
English	A1	A1	A1	A1	A1

Digital skills

User

Other skills (hobbies)

Reading fiction, fishing

ADDITIONAL INFORMATION

Main publications

1. Eremin E.N., Yurov V.M., Ibatov M.K., Guchenko S.A., Laurinas V.Ch. Anti-corrosion wear-resistant coatings on parts of oil field equipment // *Procedia Engineering*, 2016, Vol.152, P. 594–600 (Scopus, CiteScore (IF) – 2,7; percentile – 76%)
2. Eremin E.N., Yurov V.M., Guchenko S.A., Laurinas V.Ch., Kasymov S.S. Antifriction superhard coatings for drill bits and boring cutters // *Procedia Engineering*, 2016, Vol. 152, P. 608–612 (Scopus, CiteScore (IF) – 2,7; percentile – 76%).
3. Eremin E.N., Yurov V.M., Guchenko S.A., Laurinas V.Ch. Nanocrystalline coatings properties forecasting // *Journal of Physics: Conf. Series 858* (2017) 012011 (Scopus, CiteScore (IF) – 0,7; percentile – 17%).
4. Laurinas V.Ch., Yurov V.M., Kasymov S.S., Eremin E.N., Vedyashkin M.V. Effect of ultraviolet and x-ray radiation on optical properties of epoxy polymers dyed with organic phosphors // *IOP Conf. Series: Materials Science and Engineering 168* (2017) 012023 (Scopus, CiteScore (IF) – 0,6; percentile – 25%).
5. Yurov V.M., Laurinas V.Ch., Kasymov S.S., Eremin E.N., Vedyashkin M.V. Thermodynamic models of radiation-induced processes in solids // *IOP Conf. Series: Materials Science and Engineering 168* (2017) 012024 (Scopus, CiteScore (IF) – 0,6; percentile – 25%).
6. Eremin E.N., Yurov V.M., Guchenko S.A., Laurinas V.Ch. Estimation of resistance to destruction of multi-element coatings // *IOP Conf. Series: Journal of Physics: Conf. Series*, 2018, v.944 (Scopus, CiteScore (IF) – 0,7; percentile – 17%).
7. Eremin E.N., Guchenko S.A., Laurinas V.Ch., Yurov V.M., Kasymov S.S. Laser alloying of nanocrystalline coatings // *IOP Conf. Series: Journal of Physics: Conf. Series*, 2019, v.1210 (Scopus, CiteScore (IF) – 0,7; percentile – 17%)
8. Eremin E.N., Yurov V.M., Laurinas V.Ch., Guchenko S.A., Kasymov S.S. Method for determining the surface energy of nitrides, carbides and borides // *AIP Conference Proceedings 2141, 040023* (2019) (Scopus, CiteScore (IF) – 0,7; percentile – 17%)
9. Eremin E.N., Yurov V.M., Laurinas V.Ch., Guchenko S.A. Structure and Properties of Corrosion-Resistant Coatings of the Zr-Fe-Cr-Ni-Ti System // *AIP Conference Proceedings 2141, 040023* (2019) (Scopus, CiteScore (IF) – 0,6; percentile – 15%)
10. Guchenko S.A., Eremin E.N., Zavatskaya O.H., Laurinas V.Ch., Yurov V.M. Effect of N₂ and Ar on the properties of multicomponent ion-plasma coatings 12X18H10T+Cu+Al // *IOP Conf. Series: Journal of Physics: Conf. Series*, 1260, 062009, (2019) (Scopus, CiteScore (IF) – 0,7; percentile – 17%)
11. Yurov V.M., Laurinas V.Ch., Guchenko S.A., Zavatskaya O.N. Method for measuring the thickness of the surface layer of magnetic materials / Patent of the Republic of Kazakhstan No. 3747 Date of registration in the State Register of Utility Models March 1, 2019
12. Yurov V.M., Laurinas V.Ch., Guchenko S.A., Zavatskaya O.N. Method for measuring the thickness of the surface layer of dielectrics / Patent of the Republic of Kazakhstan No. 3748 Date of registration in the State Register of Utility Models March 1, 2019
13. Yurov V.M., Laurinas V.Ch., Guchenko S.A., Zavatskaya O.N. Method for determining the melting point of dielectric nanoparticles // Patent of the Republic of Kazakhstan No. 3749 Date of registration in the State Register of Utility Models March 1, 2019
14. Yurov V.M., Laurinas V.Ch., Guchenko S.A., Zavatskaya O.N. Method for determining the melting point of metal and alloy nanoparticles / Patent of the Republic of Kazakhstan No. 3750 Date of registration in the State Register of Utility Models March 1, 2019
15. Yurov V.M., Laurinas V.Ch., Guchenko S.A., Zavatskaya O.N. Method for measuring the thickness of the surface layer of metals and alloys / Patent of the Republic of Kazakhstan No. 3751 Date of registration in the State Register of Utility Models March 1, 2019

Participation in the implementation of scientific projects

1. 2013-2015 Head of the grant project of the Ministry of Education and Science of the Republic of Kazakhstan "Creation of a production site and implementation of the technology of magnetron deposition of heat-resistant coatings on parts of thermal power plants"
2. 2018-2019 Responsible executor of the grant project of the Ministry of Education and Science of the Republic of Kazakhstan "Development and implementation of nanotechnology in production of high-entropy alloys and coatings based on them"
3. 2018-2019 responsible executor of the PCF of the Ministry of Education and Science of the Republic of Kazakhstan of the project "Creation of a pilot production and research center for vacuum ion-beam processing of parts of mechanisms and machines"

Membership in professional scientific organizations

Awards and titles

Badge "For services in the development of science of the Republic of Kazakhstan"

Courses

1. Physics
2. Atomic physics
3. Physics of lasers
4. Laser systems
5. Laser analytical spectroscopy
6. Optics
7. Selected chapters of optics
8. Technique of optical spectroscopy
9. Atomic and molecular spectroscopy

Professional and scientific interests

- Ion-plasma methods of applying protective coatings on parts of machines and mechanisms, laser technologies for surface modification
- Molecular spectroscopy

SCIENTIFIC DATABASES IDENTIFIERS

Researcher ID: U-7540-2018
ORCID ID: <https://orcid.org/0000-0001-7079-254X>
RSCI: [30207771](#)
Author ID Scopus: 6504426206