Curriculum Vitae *Karpenko O.*

PERSONAL INFORMATION



Karpenko Oleksii

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Sex M | Birthdate 05/06/1958 | Nationality *Ukraine*

Scientific Degree	Doctor of Science, Geophysics
Academic status	Professor
Position	Professor
Department	Petroleum Geology
Faculty/Institute	Educational and Scientific Institute "Institute of Geology"

Educational disciplines involved:

This year	"Geology and unconventional hydrocarbons research" "Well-logging data interpretation " " Estimation of oil and gas reserves" "Actual problems of petroleum geology" " Geological principles of formation disclosure" "Geological bases of hydrocarbon deposits development" "Well logging"
In previous periods	"Perophysics of rock-reservoirs" "Technologies of drilling and oil and gas extraction" "Geological bases of hydrocarbon deposits development" "Processing and interpretation of well-logging data" " Estimation of oil and gas reserves" " Shale oil and gas, tight gas, methane of coal basins" "Well logging" "Actual problems of petroleum geology " "Complexification of geophysical methods" "Research workshop" "Educational practice in specialization" "Actual problems of petroleum geology" " Geological principles of formation disclosure" "Geology and unconventional hydrocarbons research"

EXPERIENCE OF SCIENTIFIC AND SCIENTIFIC PEDAGOGICAL WORK

Years	Position
2023 - currently	Professor of Petroleum Geology Department
	Taras Shevchenko National University of Kyiv (60 Vladimirsky St., Kyiv, 01033, http://www.univ.kiev.ua/)
	Field of activity or sector Education
(2010 - 2023)	Head of Petroleum Geology Department
	Taras Shevchenko National University of Kyiv (60 Vladimirsky St., Kyiv, 01033, http://www.univ.kiev.ua/)
	Field of activity or sector Education
(September 2008 - 2010)	Professor of Department of Geophysics
	Taras Shevchenko National University of Kyiv (60 Vladimirsky St., Kyiv, 01033, http://www.univ.kiev.ua/)

	Field of activity or sector Education
(2006 – August 2008)	Head of Field Oil and Gas Geophysics Department
	Ivano-Frankivsk National Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Education
(2005 - 2006)	Professor of Field Oil and Gas Geophysics Department
	Ivano-Frankivsk National Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Education
(1992 - 2004) (from 2004 to 2005 - part-time)	Associate Professor of the Well-logging Department
	Ivano-Frankivsk State / National Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Education
(1987 -1991)	Senior Researcher
	Ivano-Frankivsk Oil and Gas Institute / Ivano-Frankivsk State Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Science
(1986 -1987)	Junior Researcher
	Ivano-Frankivsk Oil and Gas Institute / Ivano-Frankivsk State Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Science
(1981 -1983)	Assistant of Oil-field Geology and Well-logging Department
	Ivano-Frankivsk Oil and Gas Institute (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Field of activity or sector Education

LEARNING AND TRAINING

Years	Position
(2004 - 2005)	Doctorate (D. of Sciences)
	Ivano-Frankivsk National Technical University of Oil and Gas (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Obtained qualification Doctor of Geological Sciences, speciality 04.00.22 – Geophysics; dissertation "Scientific and methodological bases of estimation of reservoir properties of the rocks in the thin-layered sections of hydrocarbon deposits according to geophysical research data"
(1983 - 1986)	Graduate (PhD) school
	Ivano-Frankivsk Oil and Gas Institute (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Obtained qualification PhD (geological sciences), speciality 04.00.17 – Geology and exploration of oil and gas fields; thesis "Application of elemental analysis for evaluation of lithological and reservoir characteristics of rocks (on example of oil and gas deposits of the Yamal Peninsula)"
(1980 - 1981)	Trainee teacher
	Ivano-Frankivsk Oil and Gas Institute (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Obtained qualification of assistant, teacher of higher education
(1975 - 1980)	Training (student)
	Ivano-Frankivsk Oil and Gas Institute (76019, Ivano-Frankivsk, 15 Karpatska st., http://new.nung.edu.ua/)
	Qualified mining engineer-geophysicist, speciality "Geophysical methods of exploration of mineral deposits"

PERSONAL SKILLS

Denomination	Level
Native language	Ukrainian
Foreign language 1	English (level B1), Secondary School No.1 with Advanced Study of English, Ivano-Frankivsk

Foreign language 2	Russian
Communication competence	The skills of good communication were received while working as an Trainee teacher, assistant, senior researcher, associate professor, professor, head of departments
Organizational / managerial competence	Received organizational / managerial skills while working as head of the department at IFNTUNG (18 people), the head of the department at the Taras Shevchenko National University (9 people + members) and the scientific head of the state budget theme (13 full-time researchers and 3 others), scientific coordinator of international grant projects (9 persons).
Digital competencies	Data processing: Skills and practical experience with a number of specialized software products for the processing of geological and geophysical information (AS "Geopoisk", "Interactive Petrophysics", "PetroMod"). Communication: experience of communication with the audience, researchers, specialists of the oil and gas industry.
Other computer skills	Experience in using MathCAD, Statistica, Surfer, CorelDraw, Photoshop, MS Office software, ChatGPT.
Professional skills (not listed above)	Expert of the State Commission of Mineral Resources of Ukraine (geological and economical evaluation of oil and gas fields)
Areas of professional interest	Educational activity (preparation of highly professional personnel for the oil and gas industry), geological and geophysical modeling, petrophysics, interpretation of well-logging data, modeling of petroleum systems, exogenous geological processes

ADDITIONAL INFORMATION

Denomination	(publications, presentations, projects, conferences, seminars, names of awards and prizes, membership in Academies, professional and scientific associations, etc.)
Publications	Author or coauthor more than 200 scientific and 12 educational and methodological works. Took part in numerous international scientific conferences. https://orcid.org/0000-0002-5780-0418 Scopus Author ID: 56086421000, 50 publications, h-index 9, ResearcherID: I-1503-2018, 25 publications, h-index 7, Google Scholar: uqXVMPUAAAAJ
Projects, scientific discoveries	• R&D "Prospects for oil and gas content of the North Board and Southeastern parts of the Dnieper-Donetsk Basin" (2009-2010). (Supervisor). • R&D "Development of theory and methodology for constructing dynamic geological and geophysical models of geological objects and processes" (2015). (Supervisor). • R&D "Scientific bases of oil and gas preconditions for shale deposits and complex-built reservoir rocks" (2016-2017). (Supervisor). • Scientific Grant UA/022014/IHE01 (British Council Ukraine) to carry out the first stage of research work with the University of Aberystwyth, Wales, Great Britain. (Supervisor from Taras Shevchenko University, 2014). • International scientific project Horizon 2020 program, "Effective Factorisation Techniques for Matrix-Functions: Developing Theory, Numerical Methods, and Impactful Applications."(Grant Agreement—EffectFact — Marie Sklodowska-Curie Research and Innovation; RISE-2020). (Supervisor from Taras Shevchenko University, 2023-2026). • International scientific project "Geothermal Ukraine - an Empowering Change for Good: Making a difference in technology for rapid deployment" (Program "Innovate UK", Great Britain). (Supervisor from Taras Shevchenko University, 2024-2026). • E.D. Kuzmenko, E.I. Krizhanivsky, A.N. Karpenko, O.M. Juravel The logical relationship between the magnitudes of the probabilities of landslides and landslide hazards due to the complex effects of natural and technogenic factors (scientific discovery, diploma No. 310)
Conferences	• International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2026); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2025); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2024); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2023); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the

	Environment», (Kyiv, 2022); • XX International sc.-pract. conf. "Геоінформатика: Теоретичні та прикладні аспекти", (Київ, 2021); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2021); • XIX International sc.-pract. conf. "Геоінформатика: Теоретичні та прикладні аспекти", (Київ, 2020); • International sc. conf. «Monitoring of Geological Processes and Ecological Condition of the Environment», (Kyiv, 2020); • International sc. conf. "Геологія горючих копалин: досягнення та перспективи" (м. Київ, ІГН НАНУ, 2-5 вересня 2019 р.); • AAPG European Regional Conference «Paratethys Petroleum System Between Central Europe and the Caspian Region» (Vienna, Austria, March 26-27, 2019); • XVII International sc.-pract. conf. "Геоінформатика: Теоретичні та прикладні аспекти", (Київ, 2018); • International sc.-pract. conf. "Екогеофорум-2017. Актуальні проблеми та іновації" (ІФНТУНГ, Івано-Франківськ н.-т. конф., 22-25 березня 2017 р.); • XVI International sc.-pract. conf. "Геоінформатика: Теоретичні та прикладні аспекти", (Київ, 2016); • International sc.-pract. conf. "Питання пошуків, розвідки та екологічних аспектів видобування вуглеводнів з ущільнених колекторів, газосланцевих товщ та вуглевміщуючих пластів " (КНУ імені Тараса Шевченка, Київ, 3-4 червня 2015 р.); • International sc.-tech. conf. "Recent Advances in Nymerical Simulation of Hydraulic Fracture" (Rzeszow, Poland, 14-16 – July, 2014); • International sc.-tech. conf. "Geopetrol-2014" (Zakopane, 15-18.09.2014); • International sc.-tech. conf. XLII Summer School – Conference "Advanced Problems in Mechanics (APM-2014)". - St. Petersburg (Russia), June 30 – July 5, 2014; • International sc. conf. "Нетрадиційні джерела вуглеводнів в Україні: пошуки, розвідка, перспективи" (КНУ ім. Тараса Шевченка, 27-29 листопада 2013 р.).
Prizes and awards	• Honorary Title "Honored Worker of Science and Technology of Ukraine", 2026 • Honorary Award of the 1nd Degree of NAC «Naftogaz of Ukraine», 2024 • Honorary Award of the 2nd Degree of NAC «Naftogaz of Ukraine», 2018 • Gold medal «For Merits» from the Union of Geologists of Ukraine, 2017 • Medal to them K. Roentgen from the International Academy of Natural Sciences, Hannover, 2007 • Incentive mark «For scientific achievements» of the Ministry of Education and Science of Ukraine, 2007 • Honorary title «Honorary Prospectus of the Subsoil» from the State Geological Survey of Ukraine, 2007 • Nomination «Best Scientist of the Year», Ivano-Frankivsk Regional State Administration, 2007.
Membership in organizations	Member of the Union of Geologists of Ukraine, Full member (academician) of the Ukrainian Oil and Gas Academy, Member of the Society of Petroleum Engineers (SPE)
Link	55 (Web of Sciences), 50 (Scopus)
Citation	90 (Web of Sciences), 222 (Scopus)
Courses	• Tutkovsky Institute, 11-22.09.2019 Themes of the course in the area of science and education: 1. Practices of Exploration Project Economic Evaluations – 32 hours; 2. Interpretation of Petroleum Play Common Risk Segment Maps – 32 hours • Yuriy Kondratyuk Potavskaya Polytechnic National University, 5.05-2.06.2025 Theme of the course in the area of science and education: Modern technologies of oil and gas drilling and development of hydrocarbon deposits"; ed. 2.06.2025, 6 credits ECTS (25 hours) (180 hours)