

## PERSONAL INFORMATION

## Andrii Yavorskyi



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Sex Male | Date of birth 24/10/1978 | Nationality Ukrainian

## WORK EXPERIENCE

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- 01/08/2000–31/01/2001 **Researcher of Research institute of Oil and Gas Technologies**  
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)  
Development of technology and technical devices for the insulation status of buried oil and gas pipeline control for oil and gas producing enterprises.
- 01/02/2001–31/08/2003 **PhD student of Department of methods and devices of quality control and product certification**  
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)  
Carrying out the scientific research into the development of methods and data-measuring system for the inspection of the insulating coating of the underground pipelines.
- 01/09/2003–31/08/2005 **Assistant of Department of methods and devices of quality control and product certification**  
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)
  - Lecturing and laboratory studies on electronics
  - Lecturing and laboratory studies on technological basis of microelectronics
  - Laboratory studies on construction of electro-measuring devices blocks
  - Practical studies on devices of the non-destructive control and technical diagnosing
  - Involvement of the best students of the university into the research work
- 01/09/2005–Present **Senior Research Assistant of Research and Development Institute of Petroleum Technologies R&D Laboratory for Non-Destructive Testing and Evaluation**  
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)  
Conduct research in areas of expertise  
Supervision of the R&D projects
- 01/09/2005–31/08/2006 **Head of Laboratory of the ecological audit and environment monitoring**  
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)
  - Guidance of the laboratory work
  - Chemico-analytical control of environmental objects (sampling and soil testing, testing of drinking water and atmospheric air of populated areas)
  - Reporting on research works on the basis of field research
  - Organizing of calibration and metrological certification of measuring devices and testing equipment certification
  - Publicity of safety and rational nature resources usage among students-ecologists

- Involvement of the best students of the university into the research work

01/09/2006–Present

**Associate professor of Department of Energy management and Technical Diagnostics (Department of Technical Diagnostics and Monitoring 2006-2015)**

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)

- Lecturing on Technical pipeline diagnosing
- Lecturing on Quality control of welding
- Lectures, laboratory and practical studies on Energy efficiency
- Lectures, laboratory and practical studies on Alternative and renewable energy
- Lectures, laboratory and practical studies on Energy control
- Lectures and practical studies on Energy markets and marketing research in the Energy Sector
- Lectures, laboratory and practical studies on Geodetic radio-electronics devices
- Lecturing on Technical diagnostics drilling equipment and tools
- Lecturing on Methods and means of non-destructive testing of materials and products
- Lectures, laboratory and practical studies on fundamentals of Metrology standardization and quality control in the oil and gas industry
- Involvement of the best students of the university into the research work

## EDUCATION AND TRAINING

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01/09/1995–30/06/2000

**Specialist (engineer physicist )**

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)

Major: Non-Destructive Testing

Thesis: "Device development for solids soaking surface control"

01/08/2000–25/03/2005

**Ph.D. in Technical Sciences**

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk (Ukraine)

Dissertation: "Development of method and system for the non-contact control of being of isolation of industrial oil and gas pipeline "

24/02/2014–07/04/2014

**Certificate of Accreditation as an Specialist Non Destructive Testing services, Level 2, Visual Testing (VT)**

Association of Independent Experts of Ukraine "Ukrekspert" in accordance with the international standard ISO 9712: 2012 "Non-destructive testing. Qualification and certification of personnel in the field of non-destructive testing", Dnipropetrovsk (Ukraine)

08/10/2018–26/10/2018

**Certificate of Accreditation as an Energy Auditor (certification of energy efficiency of buildings & survey of engineering systems)**

Ivano-Frankivsk National Technical University of Oil and Gas, State Agency on Energy Efficiency and Energy Saving of Ukraine

15/07/2019–25/07/2019

**Certificate of training for trainers under the program "Training energy auditors to work with the Energy Efficiency Fund"**

Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ), Energy Efficiency Fund, L'viv, (Ukraine)

10/11/2019–14/11/2019

**Certificate of training "Thermographic analysis of buildings"**

GIZ International Training Center at Fedafing Munchen, (Germany)



PERSONAL SKILLS

Mother tongue(s) Ukrainian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	A2	A2	A1
Russian	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

- good with wide public presentation and communication
- good communication skills gained through my experience as university teacher
- good communication skills for professional training
- good with TV and other media
- excellent contact skills with children gained through my experience as animator in scientific museum

Organisational / managerial skills

- good organisational skills gained as project leader of several research projects
- planning and day-to-day management

Job-related skills

- Good mentoring skills on seminars and trainings (Energy saving, energy efficiency, energy audit, renewable energy)
- Experience with methods and systems of quality control and technical diagnostics ( oil, gas and ammonia pipelines)
- Experience in developing professional training programs (Training program for personnel of the gas transportation company for determination of gas leaks from gas pipelines and gas equipment)
- Experience in the design and construction of training facilities for modeling natural gas leaks from gas pipelines and gas equipment
- Experience in the development of technical projects for renewable energy
- Experience with energy audits of different objects, such as buildings, equipment, pipelines etc.
- Experience with the Ukrainian quality infrastructure including technical regulation, standardization, metrology, conformity assessment and accreditation

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Basic user	Independent user

Digital skills - Self-assessment grid

Computer literacy. Editing: Microsoft Office, Excel, Powerpoint, Mathcad, KOMPAS, Arduino IDE, Splan

Other skills

- Development and production of electronic measuring equipment, devices for IOT (Internet of Things) on arduino platform (meteostation, systems for controlling indoor climate)
- Surveys of underground pipelines using electromagnetic methods
- Development and production of technical systems for renewable energy and power supply system (small solar power station)

- Development and production exhibit equipment and prototype for science museum prototype

Driving licence B

## ADDITIONAL INFORMATION

### Honours and awards

- (2009) Laureate award President of Ukraine for young scientists
- (2006) Best Young Scientist, Ivano-Frankivsk Region State Administration
- (2006) Best PhD Student/Student in NDT&E, Ukrainian Society for Non-Destructive Testing

### Seminars

- Second Inter-Regional Seminar – Safety and Security of Main Gas Transit Infrastructure in Eastern Europe and the Caucasus, Kyiv, Ukraine, 21-24 April, 2009
- University of Rennes 1, Geosciences Rennes - CNRS UMR 6118, France, 23-27 October, 2011; 19-25 November, 2012
- Seminar - Support of innovations through improvement of regulatory framework for higher education in Ukraine, 530158-TEMPUS-1-2012-1-SE-TEMPUS-SMHES, Polytechnic Institute of Porto, Porto, Portugal, 16-24 March, 2013
- Seminar - Support of innovations through improvement of regulatory framework for higher education in Ukraine, 530158-TEMPUS-1-2012-1-SE-TEMPUS-SMHES, Lund University, Lund, Sweden, 22-29 September, 2013
- Seminar - Higher engineering training for environmentally sustainable industrial development. 543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR, Universidad de Granada, Granada, Spain, 23-29 March 2014
- Seminar - Building a more effective pathway leading from research to innovation through cooperation between the European Union and Eastern Partnership countries in the field of energy efficiency (INNOVER-EAST project), Trieste, Italy, 1-2 December, 2014
- Seminar - Higher engineering training for environmentally sustainable industrial development. 543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR, Buckinghamshire New University, UK, 4-6 February, 2015
- Seminar - Higher engineering training for environmentally sustainable industrial development. 543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR, Katholieke Universiteit Leuven, Gent, Belgium, 8-12 June, 2015
- Seminar - Building a more effective pathway leading from research to innovation through cooperation between the European Union and Eastern Partnership countries in the field of energy efficiency (INNOVER-EAST project), Baku, Azerbaijan, 6-8 October 2015
- Seminar - Building a more effective pathway leading from research to innovation through cooperation between the European Union and Eastern Partnership countries in the field of energy efficiency (INNOVER-EAST project), Tbilisi, Georgia, 27 January 2016
- Workshop - Enabling the Energy Union through understanding the drivers of individual and collective energy choices in Europe. The Center for the Study of Democracy, Sofia, Bulgaria, 13-15 June 2018.

### Projects

- Researcher, Project "Cross-border Network of Energy Sustainable Universities (NET4SENERGY)". Programme: 2014 - 2020 Hungary - Slovakia - Romania - Ukraine ENI CBC (HUSKROUA/1702/6.1/0075). Programme Funded by EU.
- Researcher, Project "Energy Recovery from Municipal Solid Waste by Thermal Conversion Technologies in the Cross-border Region (EnyMSW)". Programme: 2014 - 2020 Hungary - Slovakia - Romania - Ukraine ENI CBC. (HUSKROUA/1702/6.1/0015). Programme Funded by EU.
- Researcher, Project "Development of environmentally friendly technology for controlling the structure and composition of gas-liquid flows". Funded by Ministry of Education and Science of Ukraine 2019-2020
- Researcher, Project "Monitoring and promoting the implementation of energy efficiency and energy

saving policies in Ivano-Frankivsk region". The Institute for Economic Research and Policy Consulting (IER) 2017-2018

- Consultant, Project "Increasing the energy efficiency of objects of the budget sphere of the city of Ivano-Frankivsk and the city of Chernivtsi". Norsk Energi 2016-now
- Project Leader, Project "Development of the standard "Metrology. natural gas. determination of lower heating of combustion by correlation method" Funded by PJSC "Ukrtransgas" 2017
- Researcher, Project "Manufacturing and industrial testing of portable instrument for express control of the heating of natural gas combustion" unded by PJSC "Ukrtransgas" 2017
- Researcher, Project 543966 "Higher engineering training for environmentally sustainable industrial development". Programme Funded by EU. (TEMPUS-1-2013-1-BE-TEMPUS-JPCR) 2015-2017
- Researcher, Project "Research of technological and non-technological losses of natural gas at operation on CNG filling stations" PJSC "Concern Galnaftogaz" 2017
- Researcher, Project 609570 "Building a more effective pathway leading from research to innovation through cooperation between the European Union and Eastern Partnership countries in the field of energy efficiency" (INNOVAER-EAST). The INNOVER-EAST project is funded by the Seventh Framework Programme of the European Union. 2015-2016
- Supervisor, "The introduction of solutions using renewable energy sources and improving energy efficiency in the Tlumach region" NR 313/2015/PPR2015. Funded by Ministry of Foreign Affairs of the Republic of Poland. 2015
- Project Leader, "The development and implementation of the device for express monitoring of heat of combustion of natural gas". Funded by Ministry of Education and Science of Ukraine 2015-2016
- Researcher, "Development of Sustainable Energy Action Plan (SEAP) for Ivano-Frankivsk city". Funded by city council of Ivano-Frankivsk. 2013
- Local Short-Term Expert (ENPI CBC Programme 2007-2013, Hungary-Slovakia-Romania-Ukraine, "Cross-border innovation network for technology transfer", „HUSKROUA/1101/194 2013-2014
- Supervisor, "Development of scientific bases of many parameters condition monitoring metal constructions for long-term operation of the actual values of physical and mechanical characteristics of the material and the type and size of defects". Funded by Ministry of Education and Science of Ukraine 2013-2014
- Researcher, "Express Method of Natural Gas Quality Control" UKE1-9074-IF-12 (U.S. Civilian Research and Development Foundation) 2012
- Local Short-Term Expert (Programme Funded by EU, TEMPUS "Cross-university network for cooperation with enterprises UNINET", TEMPUS-159237) 2012
- Project Leader, "Development of new technology of risk management of geodynamic effects on safe operation of pipeline systems" Funded b State Agency of Ukraine for Science, Innovation and Informatization and Centre National de la Recherche Scientifique, CNRS Ukrainian-French project "Dnipro" 2011 – 2012
- Project Leader, "Risk safe operation extended potentially dangerous engineering structures in the presence of geodynamic effects" Funded by Ministry of Education and Science of Ukraine 2011-2012
- Supervisor, "Development and implementation of energy-efficient technologies at existing energy-intensive objects of the oil and gas complex" (0111U008841) Funded by Ministry of Education and Science of Ukraine 2011-2012
- Local Short Term Expert (Programme Funded by EU, INOGATE, Project "Safety and Security of Main Gas Transit Infrastructure in Eastern Europe and the Caucasus", EuropeAid/123286/C/SER/MULTI) 2010 - 2011
- Project Leader, "Development of the new method to control the energetic characteristics of natural gas" Funded by Ministry of Education and Science of Ukraine 2009
- Researcher, "Research into the new methods of determination of the physico-mechanical characteristics of the continuous service metalware using non-destructive methods" Funded by Ministry of Education and Science. 2007-2009
- Researcher, "Ecological soil testing of the pollution caused by military and business activities on the former military aerodrome in Pryluky city (Chemigivskyy region) in order to determine an effective technology of soli purification" Funded by Ministry of Education and Science and NATO 2008
- Researcher, "Analysis of the existing methods and technical means of the flow detection used for valve blocks of the main gas pipelines" Funded by SC "Ukrtransgas" 2007

- Researcher, "Development, testing and usage of the device for control of the polyphase flux structure from operational wells" Funded by SC"Chornomornaftogas" 2005
- Supervisor, "Development of the method for metrological attestation of the device for the insulation of gas and gas condensate underground pipelines control (0104U005497)" Funded by SC "Ukrigasvudobvannya" 2004
- Supervisor, "Development of the device for monitoring the insulation status and cutting-in existing in gas and gas condensate underground pipelines (0103U001614)" Funded by SC "Ukrigasvudobvannya" 2003
- Researcher, "Scientific basis of control and ecological monitoring of the oil and gas complex objects of Ukraine" Funded by Ministry of Education and Science 2002
- Supervisor, "Development of technology and technological devices for insulation status of the underground oil and gas pipelines monitoring (0303U007932)" Funded by VAT "Ukrnafta" 2000-2001

**Publications** In total – 154 (incl.7 patents of Ukraine).

Some of them:

- Yavorskyi A.V. **Method of insulating coating status control of underground oil and gas pipelines using a system of non-contact insulating coating control.** Methods and devices of quality control. 2001. Vol.7p. 25-28.
- Yavorskyi A.V. **Non-contact insulation coating status control of the electrically connected parallel industrial oil and gas pipelines.** (with Kisil I.S.) Technical diagnosing and non-destructive control. 2004. Vol3 . p.36-41.
- Yavorskyi A.V. **Metrological analysis of the informative-measuring system for the electrically connected parallel industrial underground oil and gas pipelines control.** (with Kisil I.S.) Works of Lugansk department of the International Academy of Automation. Science journal. 2005.p.130.
- Yavorskyi A.V. **Electromagnetic disturbance removal on application of the non-contact insulating coating of the underground oil and gas pipelines control.** (with Kisil I.S.)Physical methods and means of environment, materials and products control; Selected science articles.- Lviv: Physico-mechanical Institute by G.V. Karpenko NAS of Ukraine.p.119-125.
- Yavorskyi A.V. **The informative-measuring system BKIT-2 for the non-contact insulating coating of the underground galvanically connected parallel oil and gas pipelines control** (with Kisil I.S.) Oil and Gas Industry.2005.Vol2.p.42-43.
- Raiter P.M., Vashchyshak S.P., Yavorskyi A.V. **Technical monitoring system of pipelines status of the operational borehole cavities in shelf production activity environment** (with Raiter P.M., Vashchyshak S.P.) Materials of the 5-th National Research Conference «Non-destructive control and technical diagnosing», Kyiv, 10-14 April 2006.p.301-306.
- Yavorskyi A.V. **Safeguarding of technological safety of underwater tapers of main oil pipelines.** (with Karpash O.M., Moskvich V.M., Vasyliuk V.M.) Oil and Gas Energetics.2007.Vol1.p.34-39.
- Yavorskyi A.V. **Technical status monitoring of main underwater tapers.** (with Martynuk R.T.) // Materials V Science Conference «Organization of non-destructive quality control of products in industry», Sharm El-Sheikh, Egypt,22-29 April 2007.p.67.
- Yavorskyi A.V. **The informative-measuring system of quality control of the absorbents in drying facilities for natural gas** (with Kozak O.F., Karpash O.M., Klymyshyn Y.D.). Methods and devices of quality control.2008.Vol.20.p.70-74.
- Yavorskyi A.V. **Analysis of reasons for valves failures at gas transport facilities** (with Karpash O.M., Tazarkovych N.L.) Oil and Gas Industry .2008.Vol2.p.43-47.
- Yavorskyi A.V. **Phase method of insulating coating of underground pipelines control** (with Vashchyshak S.P., Karpash A.M.) Methods and devices of quality control. 2008.Vol 21.p.14-18.
- Yavorskyi A.V. **System for control the level of fluid in the active gas pipeline pipelines** (with Karpash O.M., Rybitskyi I.V.) Oil and Gas Industry. 2009.Vo5-6. p.41-43.
- Yavorskyi A.V. **Training of the gas-transport company personnel for tracing the leaking of the natural gas loss** (with Karpash O.M., Klyuk B.A, Minakov A.V., Essa Nieminen) Oil and Gas Industry. 2010.Vo5.p.41-45.
- Yavorskyi A.V. **Remote monitoring system of main gas pipeline linear part sections position and condition** (with Karpash O.M., Rybitskyi I.V.) Wiertnictwo, Nafta, Gaz (Drilling, Oil, Gas). – 2011. - №1-2 – V.28. – p. 469-473.



- Yavorskyi A.V. **Approaches to detection of gas leaks from the linear part of main gas pipelines in zones of geodynamic risk** (with Karpash O.M., Rybitskyi I.V.) Exploration and development of oil and gas fields. – 2011. - №1 – p. 113-119.
- Yavorskyi A.V. **Geodynamic hazard forecasting system in the zone of the extended engineering structures** (with Rybitskyi I.V.) Scientific news (Scientific Proceedings). – 2012. - №1 – V.133. – p. 281-285.
- Yavorskyi A.V. **An improved approach to the identification of defects in the insulating coating of underground oil and gas pipelines** (with Tsykh V.S.) Scientific news (Scientific Proceedings).– 2013. - №2 (139). – p.44-47.
- Yavorskyi A.V. **The calculation of the volume of process fluid accumulation within the existing pipeline** (with Karpash O.M., Banahevykh R.Y.) Methods and devices of quality control. 2014.Vol 32 .p.107-113.
- Yavorskyi A.V. **Methods of identification through the insulation defects of underground oil and gas pipelines in complex technological objects** (with Tsykh V.S., Tahar Aifa) Scientific news (Scientific Proceedings).– 2014. - №1 (150). – p. 61-65.
- Yavorskyi A.V. **Risk management of safe operation of engineering structures in the oil and gas sector.** (with M.O. Karpash, L.Y. Zhovtulia, I.V. Kryviyuk) Scientific news (Scientific Proceedings).– 2015. - №2 (165). – p. 34-39.
- Yavorskyi, A. V., et al. **An overview of the current state of technology and developments for the express control of the heat of combustion of natural gas.** Methods and devices of quality control. 2016.Vol 37 .p.51-66.
- Yavorskyi, A. V., et al. **Safe operation of engineering structures in the oil and gas industry.** Journal of Natural Gas Science and Engineering. 2017. Vol 46 .p.289-295.