

CURRICULUM VITAE

Proposed position in assignment: *Expert*

1. **Family name:** *Shyshko*
2. **First names:** *Yuliia*
3. **Date of birth:** ██████████
4. **Nationality:** ██████████
5. **Civil status:** ██████████
6. **Education:**

<i>Institution</i>	National Metallurgical Academy of Ukraine, Metallurgical Faculty, Industrial Heat energy department 4, Gagarina Ave., Dnipropetrovsk, 49005, Ukraine
<i>Date: from (month / year): to (month / year):</i>	September 1993 – June 1998
<i>Degree(s) or Diploma(s) obtained:</i>	Master of Industrial Heat Energy and Energy Saving (Heat Energy engineer)

<i>Institution</i>	National Metallurgical Academy of Ukraine, Metallurgical Faculty, Industrial Heat energy department 4, Gagarina Ave., Dnipropetrovsk, 49005, Ukraine
<i>Date: from (month / year): to (month / year):</i>	October 1998 – September 2001
<i>Degree(s) or Diploma(s) obtained:</i>	Postgraduate (Technical thermo physics and industrial heat energy)

<i>Date: from (month / year): to (month / year):</i>	December 2004
<i>Degree(s) or Diploma(s) obtained:</i>	PhD. Thesis title: «Energy-save technologies of producing gas from biomass and its combustion in furnace units»

<i>Institution</i>	UNIDO Under the framework of UKR IEE Project «Introduction of Energy Management System Standard in Ukrainian Industry» ISO 50001 Bridging Training Programme for Lead Auditors
<i>Date: from (month / year): to (month / year):</i>	March 27, 2017 – March 31, 2017
<i>Degree(s) or Diploma(s) obtained:</i>	Certificate of successfully passed the exam «The ISO 50001 Bridging Training Programme for Lead Auditors»

<i>Institution</i>	EUREM (European Energymanager programme), Nuremberg Chamber of Commerce and industry
<i>Date: from (month / year): to (month / year):</i>	October 13, 2017 – May 18, 2018
<i>Degree(s) or Diploma(s) obtained:</i>	European Energymanager (CCI). Certificate no. UA-IEV-0018

<i>Institution</i>	E-ETAP – Educational project on energy efficiency and energy audit in Ukraine
<i>Date: from (month / year): to (month / year):</i>	September 06, 2021 – October 31, 2021
<i>Degree(s) or Diploma(s) obtained:</i>	Certificate

7. **Language skills:** (Mark 1 to 5 for competence, 5 being the highest)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Ukrainian (native)	5	5	5
Russian (native)	5	5	5
English	4	3	4

8. **Membership of professional bodies:**

Member of the Academy of Technical Sciences of Ukraine

9. **Other skills (e.g. computer literacy, etc.):**

- Excellent organisational and prioritisation skills,
- Computer literacy
- Driver license cat. B

10. **Present position:** Associated Professor, Ukrainian State University of Science and Technologies, Energy Systems and Energy Management Department

11. **Years within the firm:** 22 years

12. **Key qualifications:**

- 22 years of working experience as a lecturer in a university specializing in "Industrial heat and power engineering", "Energy management" and "Renewable energy sources";
- development of training programs for specialists in energy audit of industrial enterprises at least 6 years;
- development of training programs for specialists in energy audit of buildings and engineering systems at least 5 years;
- development of training programs for energy management specialists at least 15 years;
- practical experience of energy audit of industrial enterprises (thermal power plants, steam and water heating boilers, thermal processes, etc.) and buildings at least 12 years;
- participation in advanced training courses in the field of industrial energy audit and energy audit of buildings;
- presence of international professional certification in industrial energy audit and energy management (EUREM, UNIDO);
- knowledge of the EU best practices and methodologies for energy efficiency in buildings and industrial thermal processes.

13. **Professional Experience Record:**

<i>Date: from (month / year) to (month / year)</i>	04/2005 – to date
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	Ukrainian State University of Science and Technologies (National Metallurgical Academy of Ukraine)
<i>Position:</i>	Associate Professor of the Department of Industrial Heat Power Engineering
<i>Description:</i>	Courses taught (lectures and practical training): «Theoretical basics of Thermal engineering», «Fluid and gas dynamics», «Energy technological systems of Industrial plants», «Energy-saving technologies», «Energy conservation in industry», «Utilisation and clearing of industrial wastes», «Methods of studies of progressive Heat technologies applied to the energy usage of biomass». Management diploma papers and master theses of students.

<i>Date: from (month / year) to (month / year)</i>	11/2001 – 03/2005
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	National Metallurgical Academy of Ukraine
<i>Position:</i>	Assistant of the Professor
<i>Description:</i>	Courses taught (practical training): «Theoretical basics of Thermal engineering», «Fluid and gas dynamics», «Energy technological systems of Industrial plants». Management diploma papers of students.

<i>Date: from (month / year) to (month / year)</i>	09/2006 – 05/2007
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	State Inspectorate for Energy Saving, Territorial Administration in Dnipropetrovsk Region
<i>Position:</i>	Expert from the Department of Expertise
<i>Description:</i>	Expertise of energy saving projects

<i>Date: from (month / year) to (month / year)</i>	2017 – 2021
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	Regional Center for Energy Management and Energy Audit
<i>Position:</i>	Head of Center
<i>Description:</i>	Conducting training courses on energy efficiency, energy audit and energy management; development of energy efficiency projects; consulting during energy audits of industrial enterprises, buildings and engineering systems

<i>Date: from (month / year) to (month / year)</i>	2018 – 2021
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	courses of professional retraining of servicemen in the specialty "Energy Management" held in the framework of the international project "Ukraine - Norway"
<i>Position:</i>	Trainer
<i>Description:</i>	The main topics of lectures: accounting and management of energy consumption

<i>Date: from (month / year) to (month / year)</i>	2018 – to date
<i>Location:</i>	Kyiv, Ukraine
<i>Company:</i>	Training course "EUREM - European Energy Manager (CCI)"
<i>Position:</i>	National Trainer
<i>Description:</i>	The main topics of lectures: basics of heat engineering, steam systems, renewable energy sources

<i>Date: from (month / year) to (month / year)</i>	2019 – to date
<i>Location:</i>	Dnipro, Ukraine
<i>Company:</i>	Training course "Training of auditors to work with the Energy Efficiency Fund"
<i>Position:</i>	Trainer, curriculum developer
<i>Description:</i>	The main topics of the lectures: legislative basis of energy saving, accounting of energy resources, energy audit methodology

14. Others:

1. The “Training for Energy Auditors and Technical Designers (TEAD)” (INT Project-No. #6219) project Local Senior Non-Key Expert on Energy audit of fuel combustion systems and steam systems optimization.
2. Expert on accreditation of educational programs of the National Agency for Quality Assurance in Higher Education, specialty 144 – Heat Power Engineering.
3. Member of the working group of the State Agency for Energy Efficiency and Energy Saving of Ukraine on the development of the project of the professional standard of the energy auditor of processes and transport energy auditor (order of the State Agency for Energy Efficiency and Energy Saving of Ukraine No. 19 dated 03/15/2023)

15. Publications:

Profiles: [://www.scopus.com/authid/detail.uri?authorId=56993864800](http://www.scopus.com/authid/detail.uri?authorId=56993864800)
<https://orcid.org/0000-0003-4919-6297>
<://scholar.google.com.ua/citations?hl=uk&user=fjPJvM4AAAAJ>

Scientific articles:

1. Yuliia Shyshko, Anatolii Cherniavskiy, Daria Shyshko, Olena Borichenko Determination of structural parameters of boilers loading devices on a small biomass to reduce the air excess coefficient in the boiler chamber / 11. European Conference on Renewable Energy Systems (ECRES 2023). Riga, Latvia, 18-20 May 2023.
2. Valeriya Pinchuk, Mohammed Moumane, Tatiana Sharabura, Yulia Shishko, Andrey Kuzmin Applicability of the Graetz’s solution for Newtonian fluids to the calculations of the heat transfer in coal-water fuel at the pre-heating stage, Thermal Science and Engineering Progress, Volume 21, 2021, 100798, SCOPUS 21100842663
3. Pinchuk V.O., Shyshko Yu.V., Savchuk V.S. Study of the influence of the properties of composite materials on heat exchange in direct heating installations / Current trends in the development of the technical and production potential of the national economy: a monograph / edited by V.O. Pinchuk, G.S. Prokudina– Dnipro: Porogy, 2021. - p. 4-28.
4. Shyshko Y.V., Pinchuk V.O., Bebko S.P. Research on the energy efficiency of energy saving measures in a bakery oven // Energy efficiency: science, technology, application: Proceedings of the 6th All-Ukrainian Scientific and Practical Conference. Kyiv, November 26, 2021 – Kyiv: NPU named after M.P. Drahomanova, 2021. - c. 26-33.
5. Pinchuk V.O., Shyshko Yu.V., Zima O.V. Development of effective solutions for the energy use of coal beneficiation waste // Energy efficiency: science, technologies, application: Materials of the 6th All-Ukrainian Scientific and Practical Conference. Kyiv, November 26, 2021 – Kyiv: NPU named after M.P. Drahomanova, 2021. - c. 21-25.
6. Yu.V. Shyshko, V.V. Khrychev. Research on the energy efficiency of energy-saving measures during complex thermal modernization of residential buildings / Energy efficiency: science, technology, application: Materials of the 5th All-Ukrainian Scientific and Practical Conference. Part II. Kyiv, November 25, 2020 – Kyiv: NPU named after M.P. Drahomanova, 2020. - c. 48-51.
7. M.F. Malhozov, M.I. Proskura, O.V. Bilolypetska, Yu.V. Shyshko, O.V. Burmistrov Joint use of solar and geothermal technologies for energy supply of facilities //Renewable energy and energy efficiency in the 21st century: materials of the 20th international scientific and practical conference (Kyiv, May 15-16, 2019). - K.: Interservice, 2019. - 952 p.
8. DSTU Foundry equipment. Safety requirements for ladles, pouring equipment, centrifugal casting machines of continuous and semi-continuous action / M. Ya. Dovzhik, V. M. Odnoralov, B. K. Ivanov, O. I. Ponomarenko, R. M. Trish, Yu. V. Shyshko ((EN 1247:2004 + A1:2010, IDT) [Valid from 2020 -01-01]. – K.: SE "UkrNDNC". – V, 56 p. – (National Standard of Ukraine).
9. Shyshko Yu.V., Usenko A.Yu., Kitach E.I. Influence of parameters of operation of boiler units on emissions of toxic substances during the joint use of coal and biomass // Heat engineering, energy and ecology in metallurgy: collective monograph. In two books. – Book two / Under the general editorship of Doctor of Technical Sciences, prof. Yu.S. Procrastinator – Dnipro: New Ideology, 2017. – P. 200–205.

10. Yu.V. Shyshko, V.G. Zhmurenko, V.V. Sergeev, Hansyorg Ditsche Evaluation of the ecological efficiency of the joint use of biomass and coal in boiler units // Heat engineering, energy and ecology in metallurgy: collective monograph. In two books. – Book two / Under the general editorship of Doctor of Technical Sciences, prof. Yu.S. Procrastinator – Dnipro: New Ideology, 2017. – P. 196–199.
11. Usenko A.Yu., Gubynskiy M.V., Fedorov S.S., Kremneva K.V., Shyshko Yu.V. Estimation of greenhouse gas emissions during energy use of biomass and fossil fuels // Ecology and industry. – No. 4, 2016. – P. 97–104.

Books:

1. Practical manual on energy audit of industrial enterprises / A. Chernyavskiy, A. Safyants, N. Usenko, O. Solovei, O. Borychenko, P. Pertko, Yu. Shyshko, A. Goyenko / Under general edited by N. Usenko and A. Chernyavskiy. Publisher: project "Consulting enterprises on energy efficiency". Kyiv. 2020. 277 p.
2. Kremneva K.V., Adamenko D.S., Shyshko Yu.V., Kuznetsova M.M. Technical thermodynamics. Part I: Study guide. - Dnipro: NMetAU, 2021. - 38 p.
3. Guide to the development of heat supply schemes / V. Lytvyn, V. Pecherskiy, A. Chernyavskiy, D. Yemelyanenko, M. Nikolayenko, D. Prokopenko, O. Romanets, I. Dalibozhak, S. Kupchak, S. Dubovskiy, B. Basok, Yu. Shyshko, Yu. Veremiychuk / Publisher: USAID "Energy Security Project (PEB)". Kyiv, 10/2021, 264 p.

Patents:

1. Utility model patent 139757, Ukraine, IPC F24H 7/02 (2006.01). Thermal energy accumulator / M.V. Gubynskiy, A.Yu. Usenko, V.O. Pinchuk, Yu.V. Shyshko, S.S. Fedorov, S.M. Forsys. (Ukraine); the applicant and patent holder of NMetAU. - No. u 2019 01374. Application 11.02.2019; Publ. 27.01.2020, Bul. No. 2. – P. 1 – 7.

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Certification:

I, the undersigned, certify that to the best of my knowledge, these data correctly describe me, my qualifications and my experience.

Yuliia Shyshko

Name of expert

Signature

07/06/2023

Date

