



<b>Name</b>	Mykola Kononenko
<b>Position, Department/Faculty</b>	Senior Lecturer, Department of Aircraft Engines Theory, Faculty of Aircraft Engines
<b>Academic Degree, Academic Title</b>	–
<b>Email:</b>	m.kononenko@khai.edu
<b>Scopus Author ID:</b>	[ID] –
<b>Web of Science Researcher ID:</b>	[ID] OCK-8939-2025
<b>ORCID ID:</b>	[ID] 0009-0000-8222-7265
<b>Google Scholar:</b>	<a href="https://scholar.google.com/citations?user=4pTB0X8AAAAJ&amp;hl">https://scholar.google.com/citations?user=4pTB0X8AAAAJ&amp;hl</a>
<b>ResearchGate:</b>	[link] –

## EDUCATION:

### Basic education (university, major, year of graduation):

Diploma of Specialist in Aircraft Engines  
Kharkiv Aviation Institute [1977]

## WORK EXPERIENCE:

### Professional Career (Workplace, Years, Position):

Senior Lecturer, Department of Aircraft Engines Theory, *National Aerospace University "Kharkiv Aviation Institute"* [2003 – Present]

Senior Lecturer, Department of Military Training, *National Aerospace University "Kharkiv Aviation Institute"* [1991 – 2003]

Engineer of the Aviation Engineering Service of the Military Unit [1988 – 1990]

Deputy Commander of the Aviation Squadron for Aviation Engineering Service of the Military Unit [1986 – 1988]

Deputy Head of the Technical and Maintenance Division of the Military Unit [1984 – 1986]

Head of the Aircraft and Aeroengine Maintenance and Repair Group of the Military Unit [1982 – 1984]

### Teaching Experience:

Senior Lecturer, Department of Aircraft Engines Theory, *National Aerospace University "Kharkiv Aviation Institute"* [2003 – Present]

Senior Lecturer, Department of Military Training, *National Aerospace University "Kharkiv Aviation Institute"* [1991 – 2003]

## RESEARCH ACTIVITIES:

### Main Research Areas:

Research and improvement of materials for aerospace and power engineering, enhancement of efficiency and environmental safety of energy systems and aircraft engines, optimization of design processes and improvement of gas turbine engine performance.

### Number of Publications (Scopus, WoS, others):

Multiple conference proceedings and applied research outputs.

### Participation in Scientific Conferences:

Regular participant and speaker at international and national scientific conferences in materials science, mechanical engineering, environmental safety, and aircraft engines development.

## TEACHING ACTIVITIES:

### Courses Taught:

"Introduction to the Specialty", "Testing and Fundamentals of Gas Turbine Engine Operation", "Technology of Gas Turbine Drive Repair", "Theory of Gas Turbine Engines", "Theory and Computation of Turbomachinery", and "Gas Turbine Plants, Compressor Stations, and Gas Transmission Networks".

### Author Courses, Academic Programs:

Author of the courses "Introduction to the Specialty", "Testing and Fundamentals of Gas Turbine Engine Operation", and "Technology of Gas Turbine Drive Repair".

### Methodological Materials, Textbooks:

Co-author of 5 textbooks on the organization, technology, and maintenance of gas turbine units, compressor stations, and gas transmission networks.

## SELECTED PUBLICATIONS:

### Key Articles (Scopus, WoS, others):

Kononenko M. V., Haletynko Ye. R., Dehtiarov O. D., Fesenko K. V. Boosting a Helicopter Turboshaft Engine by Water Injection into the Combustion Chamber. *Open Scientific and Practical Student Conference of the Faculty of Aircraft Engines (FAE) "Modern Problems of Engine Engineering, Power Engineering and Intelligent Mechanics"*, May 15–16, 2025, Kharkiv: National Aerospace University "KhAI", 2025, pp. 45–47.

Kononenko M. V., Kislov O. V., Chyzh D. M. Diagnostic Parameters of Wear in the Gas Generator Flow Path of a Gas Turbine Engine. *Open Scientific and Practical Student Conference of the Faculty of Aircraft Engines (FAE) "Modern Problems of Engine Engineering, Power Engineering and Intelligent Mechanics"*, May 15–16, 2025, Kharkiv: National Aerospace University "KhAI", 2025, pp. 85–88.

Kononenko M.V., Shevchenko M.A. Method for Considering the Equivalent Chemical Reaction Path in the Combustion Chamber of a Gas Turbine Engine. *Abstracts of the XXXII International Scientific and Practical Conference MicroCAD-2024*, May 22–25, 2024.

Kononenko M.V., Shencharenko S.V. Improving the Efficiency of Gas Turbine Engine

Compressor Design. *Open Scientific and Practical Student Conference of the Faculty of Aircraft Engines (FAE) "Modern Problems of Engine Engineering, Power Engineering and Intelligent Mechanics"*, May 18–19, 2023, Kharkiv: National Aerospace University "KhAI", 2023.

Kononenko M.V., Dehtiarov O.D., Selezen O.H. Analysis of the Possibility of Using Different Types of Fuel in Aviation. *Proceedings of the XXX International Scientific and Practical Conference of Students, Postgraduates and Young Scientists "Current Problems of Human Life Activity"*, April 20–21, 2023, Kremenchuk: KrNU, 2023, pp. 199–200.

Kononenko M.V., Dehtiarov O.D. Analysis of the Possible Reduction of Environmental Impact through the Use of Fuel Cells. *Proceedings of the XIII International Scientific and Methodological Conference and the 147th International Scientific Conference of the European Association for Security (EAS) "Human Safety in Modern Conditions"*, December 2–3, 2021, NTU "KhPI", Kharkiv, 2021, pp. 184–185.

Kononenko M.V., Kostyuk G.I., Evseenkova A.V., Romanov M.S. Study of the Stress State for the Possibility of Nanostructure Formation in Hard Alloys VK10, Modified VK10, and VK20. *Proceedings of the 30th International Conference "New Technologies in Mechanical Engineering"*, Koblevo–Kharkiv, September 3–8, 2020, pp. 76–77.

Kononenko N.V., Kostyuk G.I., Voliak E.O., Bruiaka O.O. Perspectives of Application of Zirconium Alloys with Coatings of Carbides, Borides, Nitrides, Silicides, Oxides, and Pure Metals. *Proceedings of the XXIX International Conference "New Technologies in Mechanical Engineering"*, Koblevo–Kharkiv, September 2–8, 2019, p. 11.

### **Books, Chapters in Collective Monographs:**

Kononenko M. V., Kislov O. V., Fesenko K. V. Technical Operation of Gas Turbine Units of Compressor Stations and Gas Transport Lines. Kharkiv: National Aerospace University "Kharkiv Aviation Institute", 2024. 68 p.

Kononenko M. V., Pozdniakov V. O., Redin I. I., Fesenko K. V. Testing and Fundamentals of Operation of Gas Turbine Plants. Kharkiv: National Aerospace University "Kharkiv Aviation Institute", 2021. 48 p.

Kononenko M. V., Kotkin V. V. Organization and Technology of Overhaul of Gas Compressor Units. Kharkiv: National Aerospace University "Kharkiv Aviation Institute", 2013. 76 p.

Kononenko M. V., Kislov O. V., Filonenko A. A. Technical Operation of Gas Turbine Units of Compressor Stations and Gas Transportation Networks. Kharkiv: National Aerospace University "Kharkiv Aviation Institute", 2008. 48 p.

### **ADDITIONAL INFORMATION:**

#### **Language Proficiency:**

English – Intermediate;

Ukrainian – Native;

Russian – Native.

#### **IT Skills:**

Excellent command of MS Office (Word, Excel, PowerPoint, Outlook), Adobe Acrobat, and ABBYY FineReader Professional Edition; advanced internet research skills; proficiency in professional software.