

<b>Name</b>	Oleksii Horbachov
<b>Position, Department/Faculty</b>	Associate Professor of Aircraft Engine Power Plant Production Technologies department / Faculty of Aircraft Engine
<b>Academic Degree, Academic Title</b>	Ph.D., Associate professor
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<b>Google Scholar:</b>	[ <a href="https://scholar.google.com/citations?user=Lr3HfocAAAAJ&amp;hl=uk">https://scholar.google.com/citations?user=Lr3HfocAAAAJ&amp;hl=uk</a> ]
<b>ResearchGate:</b>	[ <a href="https://www.researchgate.net/profile/Oleksii-Horbachov?ev=hdr_xprf">https://www.researchgate.net/profile/Oleksii-Horbachov?ev=hdr_xprf</a> ]



## EDUCATION:

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

National Aerospace University "Kharkiv Aviation Institute", master on aircraft engines and power plants production technologies; research engineer; 2001

### Postgraduate/Doctoral studies:

Ph.D., Dissertation "Deep grinding of turbine blades from hard-to-process materials using planetary grinding heads"

### Additional training, certification programs:

Advanced training at the National Aerospace University

## WORK EXPERIENCE:

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

Closed Joint-Stock Company "Ukrainian Motors" (OAO "Avtramat"), 2001-2002, technologist-programmer of machines with CNC ).

### Teaching Experience:

20 years of experience

### Experience in International or National Projects:

20 years of experience in national project

## RESEARCH ACTIVITIES:

### Main Research Areas:

Materials Science, Materials Physics, Experimental Physics, Aerospace Engineering



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

Scopus, WoS: 3; others: 45

### **Participation in Scientific Conferences:**

1. Onopchenko, A., Horbachov, O., Sorokin, V., Dudukalov, Y., Kurin, M. (2023). Optimal Conditions for Deformation of Stamping-Drawing Process from Aviation Materials. In: Tonkonogyi, V., Ivanov, V., Trojanowska, J., Oborskyi, G., Pavlenko, I. (eds) Advanced Manufacturing Processes IV. InterPartner 2022. Lecture Notes in Mechanical Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-16651-8\\_11](https://doi.org/10.1007/978-3-031-16651-8_11)

### **TEACHING ACTIVITIES:**

#### **Courses Taught:**

"Numerical methods in engineering calculations", "Metrology and standardization", "Technology of Manufacturing AE & PP", "Basics of Interchangeability", "Technology of Assembly AE&PP"

#### **Author Courses, Academic Programs:**

Numerical methods in engineering calculations

#### **Methodological Materials, Textbooks:**

1. Basics of Interchangeability: Manual to Laboratory Works / M.K. Knyazyev, V.O. Dyadin, M.O. Kurin., O.O. Gorbachov – Kharkiv: National Aerospace University named after M.Ye. Zhukovsky "Kharkiv Aviation Institute", 2013. – 84 p.
2. Form tool designing. Kharkov: National Aerospace University "Kharkiv Aviation Institute", 2014, 40p, M. O. Kurin K. A. Danko O.O.Gorbachev, A. P. Petrenko.
3. Engine manufacturing technology. Methods and parameters for machining various shapes: Summery Lectures / M. K. Knyazyev, O. O. Horbachov. – Kharkiv: National Aerospace University "Kharkiv Aviation Institute", 2020. – 124 p.

### **SELECTED PUBLICATIONS:**

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

1. Onopchenko, A. V., Kurin, M. O., Shyrokyi, Y. V. ., & Horbachov, O. O. (2024). Investigation the plastic flows in the metal stamping-drawing process at the die corner. *Acta Polytechnica*, 64(4), 385-397. <https://doi.org/10.14311/AP.2024.64.0385>;
2. M. O. Kurin, O. O. Horbachov, A. V. Onopchenko, and T. V. Loza, Modelling and Simulation of the Plastic Flows in Metal, *Metallofiz. Noveishie Tekhnol.*, 44, No. 6: 785–806 (2022). <https://doi.org/10.15407/mfint.44.06.0785>;

#### **Links to Citation Database Profiles:**

1. <https://www.scopus.com/authid/detail.uri?authorId=57889383900>
2. <https://www.webofscience.com/wos/author/record/P-1465-2017>
3. [https://www.researchgate.net/profile/Oleksii-Horbachov?ev=hdr\\_xprf](https://www.researchgate.net/profile/Oleksii-Horbachov?ev=hdr_xprf)

### **ADDITIONAL INFORMATION:**





**Language Proficiency:**

English – B2; Russian & Ukraine – fluency

**IT Skills:**

MS Office, MS Excel, AutoCAD, Mathcad, Matlab, Latex, Solid Works

**Social and Community Activities:**

Deputy Head of the Department from 2020 to 2022.

