



Name	Serhii ZAKLINSKYI
Position, Department/Faculty	Associate Professor of the Department of Aircraft Production Technologies, National Aerospace University "Kharkiv Aviation Institute"
Academic Degree, Academic Title	PhD
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EDUCATION:

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

National Aerospace University "Kharkiv Aviation Institute", Technology of aircraft and helicopter construction, 2008.

Postgraduate/Doctoral studies:

Postgraduate studies, Ph.D., National Aerospace University "Kharkiv Aviation Institute", 2024

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

From 2025 Current employment, Associate Professor of Aircraft Manufacturing Department, National Aerospace University "Kharkiv Aviation Institute"

From 2022 to 2024, Senior Lecturer of Aircraft Manufacturing Department, National Aerospace University "Kharkiv Aviation Institute"

From 2016 to 2022 Assistant of Aircraft Manufacturing Department, National Aerospace University "Kharkiv Aviation Institute"

Teaching Experience:

Aircraft Manufacturing, CAD/CAM/CAE systems

RESEARCH ACTIVITIES:

Main Research Areas:

Methods for Generating Gas Mixtures in Physical and Technical Treatment Processes





Number of Publications (Scopus, WoS, others):

8

Monographs, Textbooks:

1

Participation in Scientific Conferences:

10

TEACHING ACTIVITIES:

Courses Taught:

The Technology of Aircraft Manufacturing

Author Courses, Academic Programs:

Aircraft and helicopter production technology

Aviation equipment production technology

Methodological Materials, Textbooks:

Methodical guide:

- Technological equipment for the production of aircraft parts;
- Technology of blanking and stamping works in the production of aircraft;
- Technology of structural materials

GRANTS AND PROJECTS:

Participation in International and National Projects:

1. Part-time contractor, «Technological systems for the production and repair of objects and components of military equipment provided by foreign partners or captured, to solve the problems of import substitution and strengthening the defense capability of Ukraine», all-Ukrainian, National Aerospace University "Kharkiv Aviation Institute" 2023-2025 p., Ministry of Education and Science of Ukraine,

<https://nrat.ukrintei.ua/searchdoc/0123U102001/>

<https://nrat.ukrintei.ua/searchdoc/0224U003065>

2. Part-time contractor, Development of software and technical support for digital twins of the processes of processing parts of aircraft with detonating gas mixtures, all-Ukrainian, National Aerospace University "Kharkiv Aviation Institute" 2021-2022 p., Ministry of Education and Science of Ukraine,

<https://nrat.ukrintei.ua/searchdoc/0223U000869>

<https://nrat.ukrintei.ua/searchdoc/0222U000214>

3. Part-time contractor, Development of technologies and technical solutions for automated industrial installations for precision processing of parts of GTE units with detonating gas mixtures, all-Ukrainian, National Aerospace University "Kharkiv Aviation Institute", 2019-2020 p., Ministry of Education and Science of Ukraine

<https://nrat.ukrintei.ua/searchdoc/0221U101058>

<https://nrat.ukrintei.ua/searchdoc/0220U102076>

4. Part-time contractor, Development of an automated complex for precision thermal pulse processing with detonating gas mixtures, all-Ukrainian, National Aerospace University "Kharkiv Aviation Institute", 2017-2018 p., Ministry of Education and Science of Ukraine



<https://nrat.ukrintei.ua/searchdoc/0219U003579>

<https://nrat.ukrintei.ua/searchdoc/0218U003554>

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Pliuhin V., Zaklinskyy S., Plankovskyy S., Tsegelnyk Y., Aksonov O., Kombarov V. A digital twin design of induction motor with squirrel-cage rotor for insulation condition prediction // International Journal of Mechatronics and Applied Mechanics. 2023. Issue 14. P. 185–191. Q4
<http://doi.org/10.17683/ijomam/issue14.22>
2. Garin V., Tkachenko D., Shypul O., Zaklinskyy S., Tryfonov O., Plankovskyy S. Development of a digital twin of filling the tank with a gas mixture // Aerospace Technic and Technology. 2022. No 5 (183). P. 40 – 50. <https://doi.org/10.32620/akt.2022.5.03>
3. Gaidachuk V., Shypul O., Zaklinskyy S., Garin V., Tryfonov O., Plankovskyy S. Numerical study of mixing in gas mixture generating system // Aerospace Technic and Technology. 2021. – No 6 (176). – P. 68 – 48. <https://doi.org/10.32620/akt.2021.6.05>
4. Shypul O., Zaklinskyy S., Kombarov V., Pavlenko O., Garin V. Numerical and experimental study of filling a vessel with a component of gas mixture // Aerospace Technic and Technology. 2021. No 4 (172). P. 63 – 72. <https://doi.org/10.32620/akt.2021.4.09>
5. Plankovskyy S., Shypul O., Zaklinskyy S. Application of critical nozzles for fast measurement of vessel volume // Aerospace Technic and Technology. 2020. No 4 (164). P. 66 – 73.
<https://doi.org/10.32620/akt.2020.4.08>
6. Plankovskyy S., Shypul O., Tryfonov O., Zaklinskyy S. Algorithm of mixture generation control system for precision thermal pulse treatment // Aerospace Technic and Technology. 2018. NO 5 (149). P. 58 – 66. <https://doi.org/10.32620/akt.2018.5.09>
7. Plankovskyy S., Shypul O., Zaklinskyy S., Tryfonov O. Dynamic method of gas mixtures creation for plasma technologies // Problems of atomic science and technology. Series: Plasma Physics. 2018. No. 5 (117). P. 121–125
https://vant.kipt.kharkov.ua/ARTICLE/VANT_2018_5/article_2018_5_121.pdf
8. A Method of Rapid Measurement of Vessels Volume with Complex Shape by Critical Nozzles / Plankovskyy S., Shypul O., Zaklinskyy S., Tsegelnyk Y., Kombarov V. (2021). In: Nechyporuk M., Pavlikov V., Kritskiy D. (eds) // Integrated Computer Technologies in Mechanical Engineering – 2020. ICTM 2020 / Lecture Notes in Networks and Systems, Springer, Cham. — vol 188. — P. 247–255. — Mode of access: https://doi.org/10.1007/978-3-030-66717-7_20
9. Numerical simulations of mixture formation to ensuring the quality of thermal deburring / S. Plankovskyy, O. Shypul, S. Zaklinskyy, Y. Tsegelnyk, O. Bezkorovaina // International Conference on Advanced Mechanical and Power Engineering (CAMPE 2021). October 29-30, 2021 / Lecture Notes in Mechanical Engineering, Springer, Cham. — 2022. — P. 108–117. — Mode of access: https://doi.org/10.1007/978-3-031-18487-1_11
10. Development of a Digital Twin of Reservoir Filling by Gas Mixture Component / Shypul O., Garin V., Tkachenko D., Zaklinskyy S., Tryfonov O., Plankovskyy S. // Mathematical Modeling and Simulation of Systems (MODS'2022) / Advances in Intelligent Systems and Computing. — 2023. — P. 85–98. — Mode of access: https://doi.org/10.1007/978-3-031-30251-0_7
11. Shypul, O., Plankovskyy, S., Zaklinskyy, S., Pavlenko, O., Garin, V. (2022). Determination of the Mass of Gas in a Reservoir at Filling with a Mixture Component Under the Pressure. In: Nechyporuk, M., Pavlikov, V., Kritskiy, D. (eds) Integrated Computer Technologies in Mechanical Engineering - 2021. ICTM 2021. Lecture Notes in Networks and Systems, vol 367. Springer, Cham.

https://doi.org/10.1007/978-3-030-94259-5_16

12. Shypul, O., Pavlenko, O., Aksonov, Y., Zaklinskyy, S. Experimental Setup with Stand-Alone Automatic Modular Logger of Parameters of Thermal Pulse Processing ICTM 2022 – International Scientific and Technical Conference Integrated Computer Technologies In Mechanical Engineering – Synergetic Engineering. November 18, 2022. Kharkiv, Ukraine. Lecture Notes in Networks and Systems 2023.) https://doi.org/10.1007/978-3-031-36201-9_2

Books, Chapters in Collective Monographs:

1. Development of an automated system for precision thermal pulse processing with detonating gas mixtures: materials of research : monograph / S. I. Plankovskii, O. V. Shypul, Ye. V. Tsegelnyk, O. V. Tryfonov, K. V. Korytchenko, O. O. Baranov, Yu. O. Sysoev, V. O. Garin, Ye. O. Aksonov, V. V. Kombarov, S. O. Zaklinskii. Kharkiv, National aerospace university «Kharkiv aviation institute», 2020. – 318 c. ISBN: 978-966-662-753-0

Links to Citation Database Profiles:

[https://www.scopus.com/authid/detail.uri?authorId=57204572302;](https://www.scopus.com/authid/detail.uri?authorId=57204572302)

https://scholar.google.com/citations?hl=uk&user=cIV_17MAAAAJ