

Peter the Great St. Petersburg Polytechnic University
Institute of Machinery, Materials, and Transport
Higher School of Mechanical Engineering

ADVANCED ENGINEERING TECHNOLOGIES (AET 2024)
International Conference, dedicated to the 125th anniversary of
Peter the Great St. Petersburg Polytechnic University and
the 5th anniversary of the Higher School of Mechanical Engineering



First call for papers

May 13-17, 2024
St. Petersburg, Russia

ABOUT CONFERENCE

The second International Conference on Advanced Engineering Technologies (AET 2022), dedicated to the 125th anniversary of Peter the Great St. Petersburg Polytechnic University and the 5th anniversary of the Higher School of Mechanical Engineering, will take place in Peter the Great St. Petersburg Polytechnic University on May 13-17, 2024.

AET 2022 intends to be a forum for researchers and engineers to present and discuss innovative results, forward-looking ideas and possible applications in the field of mechanical engineering and material science.

Format of reports: offline, poster, online and correspondence (publication in the Proceedings).

CONFERENCE TOPICS

1. Machine science and engineering technology
2. Computer technologies in mechanical engineering
3. Materials science and technology of structural materials
4. Machines and technology of pressure metal treatment
5. Quality management in mechanical engineering
6. Intelligent systems, automation and robotics

PROGRAMM COMMITTEE

Co-chairs:

Anatoliy A. Popovich – professor, Director of Institute of Machinery, Materials, and Transport, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Dmitry P. Gasyuk – professor, Director of Higher School of Mechanical Engineering, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Members:

Vasiliy V. Rubanik – Associate Member of Belarus Academy of Sciences, Institute of Technical Acoustics, Academy of Sciences of Belarus, Head of Metal Physics Laboratory, Vitebsk, Belarus

Mikhail L. Kheifetz – professor, Director of Institute of Applied Physics, Academy of Sciences of Belarus, Minsk, Belarus

Shunca Li – professor, School of mechatronic Engineering, Jiangsu Normal University, Xuzhou, Jiangsu, China

Sergey N. Lezhnev – professor, Rudny Industrial Institute, Rudny, the Republic of Kazakhstan

Mikhail V. Dudkin – professor, D. Serikbayev East Kazakhstan technical university, Ust-Kamenogorsk, the Republic of Kazakhstan

Zixi Wang – professor, Head of the Sealing and Lubrication laboratory, Department of Mechanical Engineering, Tsinghua University, Beijing, China

Djerdjar Boubakeur – professor of Materials science, University of Science and Technology Houari Boumediene, Algiers, Algeria

Cheikh Salah – professor of Energy, University of Science and Technology Houari Boumediene, Algiers, Algeria

Abdi Said – professor of Materials science, University of Science and Technology Houari Boumediene, Algiers, Algeria

Dmitry Yu. Kolodyazhniy – vice-rector for research activity of Moscow state university of technology STANKIN, Moscow, Russia

Dmitry V. Vasilkov – professor, Baltic State Technical University "Voenmeh" D.F. Ustinov, St. Petersburg, Russia

Vyacheslav V. Maksarov – professor, St. Petersburg Mining University, St. Petersburg, Russia

Aleksandr N. Evgrafov – Head of the Department of Mechanism and Machine Theory, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

ORGANISING COMMITTEE

Chairman:

Mikhail M. Radkevich – professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Deputy chairman:

Leonid B. Aksenov – professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Vasiliy G. Teplukhin – associate professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Tatiana A. Makarova – associate professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Members:

Mikhail T. Korotkikh – professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Stanislav V. Mikhailov – professor, Kostroma State University, Kostroma, Russia

Hamouda Khaled – professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Sergey A. Lyubomudrov – associate professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Dmitry N. Shabalin – associate professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Artem A. Moskalets – associate professor, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Elisey A. Khlopkov – senior lecturer, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

Kirill V. Eliseev – senior lecturer, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia

IMPORTANT DATES

The deadline for registration of participants and paper submission has been extended.

- **January 31, 2023** – new deadline for registration of participants and paper submission
- **February 15, 2024** – new deadline for expert opinion on a possibility of publication of an article in the open press submission (for Russian participants)
- **April 1, 2024** – deadline for accepting the registration fee
- **April 17, 2024** – notification of paper acceptance and distribution of the 2nd Information Letter with the detailed description of the Conference Venue and Program
- **April 22, 2024** – deadline for the **obligatory** submission of the conference talk slides either in PDF or in PowerPoint format. Send presentations to the conference email address aet2024@mail.ru
- **May 13-17, 2024** – **AET 2024 Conference sessions.**

The conference contributions will be published in the book of conference proceedings.

Selected reports are planned to be published in the journals «Global Energy» (HAC of RF, RSCI) and «Metalworking» (HAC of RF).

Important! Dear authors, if your article is selected for publication in the journal, it will need to be issued according to the rules of this journal.

PAPER FORMATTING

Original research papers of up to 5 pages, written in English and complying with the rules specified in the attached file «**AET 2024 Guidelines for Authors of Proceedings.docx**», are accepted. Articles that do not comply with the formatting rules will be rejected.

REGISTRATION FEE

The registration fee is 2400 rubles.

The registration fee includes the preparation and printing of the conference proceedings and the cultural program.

Payment of the Conference registration fee after confirmation of participation should be carried out through the SPbPU website

[Frontend PAY System](https://pay.spbstu.ru/www/form_pay.html) https://pay.spbstu.ru/www/form_pay.html

You must specify the personal account number

- 203300302,

- contact email address and amount.

We ask you to send a check to Khlopkov E.A. hlopkov_ea@spbstu.ru .

Questions about payment can be asked at hlopkov_ea@spbstu.ru .

Each additional collection is paid separately in full.

All participants will be provided with a collection of articles in electronic format.

Pay attention!

- **February 15, 2024** – deadline for expert opinion on a possibility of publication of an article in the open press submission (for Russian participants)

We ask you to bring the originals of expert opinions on the possibility of publication in the open press (for participants from the Russian Federation) to the Organizing Committee during the conference.

Remote participants are kindly requested to send the originals of expert opinions by mail to the address of SPbPU:

195251, Russia, St. Petersburg, Politechnicheskaya str., 29B, SPbPU, IMMiT, Higher School of Mechanical Engineering (HSME), to Makarova Tatyana Alekseevna

HABITATION

It is highly recommended to book a hotel in St. Petersburg in advance. There are several hotels within walking distance from the conference venue:

Orbita – <https://spborbita.ru/>

Sputnik – <https://sputnik-hotel.ru/>

Nauka-Politeh – https://www.spbstu.ru/structure/gostinita_nauka/

Konstanta – https://www.spbstu.ru/structure/gostinita_konstanta/

Besides that, St. Petersburg has many hotels in the historic center (booking via <https://ostrovok.ru>, <https://bronevik.com/en/>, <https://sutochno.ru/> is available), from where the conference venue can be reached by the underground network.

REGISTRATION OF AET 2024 PARTICIPANTS is carried out only in interactive mode in the Lomonosov conference organization service [AET 2024 - ЛОМОНОСОВ](https://lomonosov-msu.ru/eng/event/8336/) <https://lomonosov-msu.ru/eng/event/8336/>. In the registration form, you need to upload three files:

- The material typed with the rules specified in the attached file (1_Petrov_NN_text.docx – direction number, underscore, surname of the first author, underscore, initials, underscore, text)
- Conference registration card (1_Petrov_NN_anketa.docx – direction number, underscore, surname of the first author, underscore, initials, underscore, anketa)
- Conclusion on the possibility of open publication (1_Petrov_NN_expact.* – direction number, underscore, surname of the first author, underscore, initials, underscore, expact).

In case of technical difficulties, please send the materials to aet2024@mail.ru.

AET 2024 WORKING LANGUAGES

Russian, English.

For further information about AET 2024, please refer to the contact details.

CONTACTS

Teplukhin Vasilii

E-mail: cornfield@yandex.ru

Secretaries:

Makarova Tatyana

E-mail: makarovata2004@gmail.com

Khlopkov Elisey

E-mail: hlopkov_ea@spbstu.ru

Organizing Committee

E-mail: aet2024@mail.ru

Conference page
on the website IMMiT SPbPU



Registration page
on the website Lomonosov



Information about the conference on the IMMiT website

https://immit.spbstu.ru/conferences/aet_2024/

Registration on the Lomonosov website

[AET 2024 - ЛОМОНОСОВ](https://lomonosov-msu.ru/eng/event/8336/) <https://lomonosov-msu.ru/eng/event/8336/>

We look forward to meeting you at the Conference!