



**NATIONAL TECHNICAL UNIVERSITY OF UKRAINE
“IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE”**

FACULTY OF LINGUISTICS

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES, THE PHILIPPINES

**XXIV INTERNATIONAL R&D ONLINE CONFERENCE FOR
STUDENTS AND EMERGING RESEARCHERS**

**“SCIENCE AND TECHNOLOGY
OF THE XXI CENTURY”**

CONFERENCE AGENDA

November 23, 2023

Kyiv, UKRAINE



Dear Conference Participants!
Welcome to
XXIV International R&D Online Conference for Students and Emerging Researchers
“Science and Technology of the XXI Century”

CONFERENCE SCHEDULE

Thursday, November 23, 2023

ZOOM MEETING

<https://us02web.zoom.us/j/86476757308?pwd=bTZWVEk2NmZzSGVjS2QwSXdCSFRGQT09>

Meeting ID: 864 7675 7308

Passcode: 815344

PLENARY SESSION

OPENING AND GREETING

14⁰⁰ – 15¹⁰

Zoia Kornieva, *Doctor of Pedagogy, Professor, Dean of the Faculty of Linguistics, Igor Sikorsky Kyiv Polytechnic Institute*

KEY-NOTE SPEAKERS

IMMERSIVE EXPLORATION OF BRAIN SIMULATION DATA

Asger Ullersted Rasmussen & Joachim Brendborg, *Department of Computer Science, Aarhus University, DK*

INFORMATION RETRIEVAL AS A WAY TO SEARCH FOR COMMON FEATURES IN THE TEXT

Oleksii Chalyi, *student, Educational and Research Institute of Physics and Technology, Igor Sikorsky Kyiv Polytechnic Institute*

THE QUALITY OF SOURCES AND ACCURATE REFERENCING IN ACADEMIC STYLE

Valentyna Lukianenko, *PhD, Associate Professor, Department of English for Engineering #2, Igor Sikorsky Kyiv Polytechnic Institute*

15¹⁵ – 17³⁰

DISCUSSION SESSIONS

Zoom meetings

17³⁰ – 18⁰⁰

CONFERENCE CLOSING

Zoom meeting

TIME LIMIT FOR PRESENTERS

Discussion sessions

- 10 min.

CONFERENCE LANGUAGES

- English, German, French, Polish, Spanish

I SECTION
ENGINEERING INNOVATIONS
ENERGY SAVING
NATURAL SCIENCES
15¹⁵ – 17³⁰

Section Moderators: *Kateryna Havrylenko, PhD, senior lecturer, Department of English for Engineering #2, Igor Sikorsky Kyiv Polytechnic Institute*
Svitlana Buga, lecturer, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute

ZOOM MEETING

<https://us05web.zoom.us/j/2153951422?pwd=MW1HVUU5bldwKy9nY0lZUDJ1STFSQT09&omn=84100690901>

Meeting ID: 215 395 1422

Passcode: 0kbgpR

<i>Yaroslav Kaliberda</i>	Application of Artificial Intelligence in Manufacturing Automation
<i>Klymenko Maksym</i>	The New Air Defense System of Ukraine
<i>Nadiia Kostenko</i>	The impact of Wearable Technologies on our Lives
<i>Sofiia Kulyk</i>	The Millennium Problem: the Navier-Stokes Equation
<i>Kostiantyn Liakhovoi, Oleksandr Petrichenko</i>	Comparing Characteristics of Chemical and Ion Reactive Engines
<i>Danyil Dorosh</i>	Molecular-Thermal Linear Electric Generator
<i>Ivanna Dovbysh</i>	Problems Related to Using Solar Panels as an Energy Source for UAVs
<i>Diana Samoray</i>	Laser Therapy in Treatment Acne
<i>Elvira Shemena</i>	Comparative Analysis of Modern Hydrogel Applications for Teeth Regeneration after Caries
<i>Serafym Voloshyn</i>	The Future of Actuarial Science

II SECTION
INNOVATIONS IN SOCIAL STUDIES
ELECTRONICS
MODERN INFORMATION TECHNOLOGIES

Section Moderators: *Olga Kovalenko, lecturer, Department of English for Engineering #2, Igor Sikorsky Kyiv Polytechnic Institute*
Olga Lakiychuk, lecturer, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute

ZOOM MEETING

<https://us04web.zoom.us/j/71059538003?pwd=ajB3TjcwOkdyL0FORUh1TTdCWUlOZz09>

Meeting ID: 710 5953 8003

Passcode: 3iH9ia

<i>Tamara Honcharuk, Polina Husakova</i>	Challenges in the Field of Publishing and Media Production during the Crisis Period in Ukraine
<i>Oleksandr Horduz</i>	The Ways to Deal with Procrastination
<i>Yelyzaveta Kostyrina</i>	Multimodal Dimension of English Public Speeches: Psycholinguistics and Translation
<i>Natan Smolij</i>	PPM Decoder as a Way to Simplify Signal Decoding
<i>Roman Kolesnyk</i>	Today's World Wide Web: Protocols, Security and Web Pages
<i>Dymitr Lukinskyi</i>	Advantages of Non-Relational Databases in Creating and Managing Virtual Models of Digital Twins for Cyber-Physical Energy Systems
<i>Oleksii Maksymenko</i>	Unmanned Aerial Vehicle as an Example of Real-Time System
<i>Vitaliy Muzychuk</i>	The role of the artificial intelligence in the modern world
<i>Yehor Seniuk</i>	Binary Trees