



**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**

14<sup>00</sup> – 15<sup>10</sup>

**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*

15<sup>15</sup> – 17<sup>30</sup>

**DISCUSSION SESSIONS**

Zoom meetings

17<sup>30</sup> – 18<sup>00</sup>

**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**  
**15<sup>15</sup> – 17<sup>30</sup>**

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

---

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