



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

FACULTY OF LINGUISTICS

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES, THE PHILIPPINES

UNIVERSITY OF ECONOMICS IN BRATISLAVA, SLOVAKIA

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

**SCIENCE AND TECHNOLOGY
OF THE XXI CENTURY**

PROGRAM

December 15, 2022

Kyiv, UKRAINE



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

CONFERENCE SCHEDULE

Thursday, December 15, 2022

ZOOM MEETING

<https://us02web.zoom.us/j/85023799189?pwd=aVJTamppWG54UkdIOERlZWFPNkcxZz09>

Meeting ID: 850 2379 9189

Passcode: 901105

15⁰⁰ – 15⁴⁵ **PLENARY SESSION**

OPENING AND GREETING

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

SOCIAL ENGINEERING

*Yuliana Lavrysh, Doctor of Pedagogy, Professor, head of the Department of
English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute*

SOCIAL ENGINEERING. DEFINITION. HISTORY AND EXAMPLES

*Maksym Nedoždii, student, Educational and Research Institute of Physics and
Technology, Igor Sikorsky Kyiv Polytechnic Institute*

*Bogdan Pizhuk, student, Educational and Research Institute of Physics and
Technology, Igor Sikorsky Kyiv Polytechnic Institute*

15⁵⁰ – 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
CHEMISTRY AND CHEMICAL TECHNOLOGY
MODERN INFORMATION TECHNOLOGIES
INNOVATIONS IN SOCIAL STUDIES

15⁵⁰ – 17³⁰

Section Moderators: *Svitlana Vadaska, senior lecturer, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute*
Anna Nypadymka, lecturer, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute

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<i>Viktoria Tkachenko</i>	Underground Tunnels as a Way to Reduce the Freight Transportation
<i>Yaroslav Yaroshovets</i>	Bionic Protheses
<i>Olga Shlikhter</i>	Obtaining Organic Fertilizers from Algae to Reduce Gas Emissions
<i>Kateryna Zelenska</i>	Functionalization of C-H by Combining Photo- and Biocatalysis
<i>Roman Kolesnyk</i>	Violence in Social Networks
<i>Dymitr Lukinskyi, Alexey Troschinskiy</i>	Advantages and Disadvantages of Using Non-Relational Databases for Big-Data Analysis and Processing
<i>Oleksii Maksymenko</i>	Analyses of Basic Navigation Principles in Unmanned Aerial Vehicles
<i>Yehor Seniuk</i>	Algorithms. Binary Search Algorithm
<i>Tamara Honcharuk, Yelyzaveta Bychenko</i>	Translated Children's Books on the Ukrainian Book Market
<i>Yulia Marenchuk</i>	The Role of CAT Tools in the Translation Industry
<i>Nina Tsubera</i>	Film Classification from the Point of View of their Structural Features

II SECTION

MODERN INFORMATION TECHNOLOGIES

15⁵⁰ – 17³⁰

Section Moderators: *Larysa Svyrydova, lecturer, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute*
Yelyzaveta Kriukova, Ph.D. in Pedagogics, Associate Professor, Department of English for Engineering №2, Igor Sikorsky Kyiv Polytechnic Institute

ZOOM MEETING

<https://us06web.zoom.us/j/84610679716?pwd=N1VQdGlnZllkd2VVRGtwRWRXTzVQZz09>

Meeting ID: 846 1067 9716

Passcode: 651437

<i>Yurii Baranov, Illya Kotyai</i>	METAVERSE – the Next Generation of the Internet
<i>Yana Bednarska</i>	Using Digital Twin in Modern Control System
<i>Olha Datsenko</i>	Analysis of the Implementation of the Industrial Internet of Things (IIoT)
<i>Serhii Hondoka</i>	Technology of Assembly and Welding of the Housing of the Electric Generator
<i>Vladyslav Makovskyi</i>	Research of New Composite Multilayer Filter Materials Based on Polymeric Fabrics
<i>Oleksii Malchevskyi, Volodymyr Sivetskyi</i>	Research of the Influence of the Geometric Parameters of the Worm on the Productivity of the Worm Extruder. Worm Cutting Step with Variable Cutting Depth
<i>Mykola Stretovych</i>	Dynamics of Nanowires and Nanosurfaces under Stimulation
<i>Hlib Shapovalov</i>	Technology of Metal 3D Printing in Mechanical Engineering
<i>Rostyslav Telychko</i>	Data Science Technologies in Metrology
<i>Danylo Zghurskyi</i>	Global Trends in Use of Industrial Robots