

**NGO CULTURAL INITIATIVE  
IVANO-FRANKIVSK, UKRAINE**

**in partnership with**

IVANO-FRANKIVSK NATIONAL  
TECHNICAL UNIVERSITY  
OF OIL AND GAS  
UKRAINE

CHERNIHIV POLYTECHNIC NATIONAL UNIVERSITY  
UKRAINE

STATE UNIVERSITY OF ECONOMICS AND TECHNOLOGY  
UKRAINE

KYIV NATIONAL UNIVERSITY  
OF TECHNOLOGIES AND DESIGN  
UKRAINE

POMERANIAN UNIVERSITY  
POLAND

**PROGRAM**

**of the**

**9th International  
Scientific Conference  
on Sustainability in Energy  
and Environmental Science**

**ISCSEES 2022**

**[iscsees.nung.edu.ua](http://iscsees.nung.edu.ua)**

**June 22-24, 2022  
Ivano-Frankivsk, Ukraine**





Scopus

**IOP** Publishing

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**June 22-24, 2022  
Ivano-Frankivsk, Ukraine**

**Dear colleagues!**

We invite you to participate in 9th International Scientific Conference on Sustainability in Energy and Environmental Science

The conference will take place **ONLINE**  
on **June 22-24, 2022** in Ivano-Frankivsk, Ukraine

**Joining the conference**

Meeting ID: <https://meet.google.com/iaw-ucny-bun>

We invite scientists, practitioners, teachers of educational institutions, doctoral students and graduate students to participate in the conference.

**The 9th International Scientific Conference on Sustainability in Energy and Environmental Science (ISCSEES2022)**

is an event addressed to scientists and professional engineers from all over the world. The conference aims to give the opportunity to present and publish their work, discuss, exchange ideas and knowledge as well as network for future collaborations. The conference covers a broad range of sustainability in energy and environmental science related topics.

**Conference topics:**

- Sustainable development of renewable, smart and environmentally friendly energy.
- Science and technology in the field of environment.
- Environmental restoration, environmental engineering and eco-technology.
- Sustainable development of agriculture and environment.
- Management in a circular economy.
- Risk management in energy, Earth and environment systems.
- Measurement, forecasting and monitoring of infrastructure facilities stability.
- Global and regional challenges for the development of communities and territories.
- Global threats, catastrophes, pandemics and emergency measures.

**Conference language: English**

# SCHEDULE OF THE CONFERENCE

**June 22-24, 2022**

<b>Date</b>	<b>Time</b>	<b>Action</b>
<b>22.06.22</b>	10.00-10.50	Joining the conference Meeting ID: <b><a href="https://meet.google.com/iaw-ucny-bun">https://meet.google.com/iaw-ucny-bun</a></b>
	11.00 – 13.00	Opening of the conference. Plenary session
	13.00 – 14.00	Break
	14.00 – 15.30	Work in sessions. Session 1
	15.30 – 15.45	Break
	15.45 – 18.00	Work in sessions. Session 2
<b>23.06.22</b>	10.00 – 12.00	Work in sessions. Session 3
	12.00 – 12.15	Break
	12.15 - 14.30	Work in sessions. Session 4
	14.30 – 14.45	Break
	14.45 – 17.30	Work in sessions. Session 5
<b>24.06.22</b>	11.00 – 15.00	Training
	15.00 – 16.00	Summing up and closing of the conference



## **SPEAKERS**



**Liliana Horal**

Ivano-Frankivsk National Technical  
University of oil and gas, Ukraine



**Maksym Karpash**

Ivano-Frankivsk National Technical University  
of oil and gas, Ukrain



**Oleh Novomlynets**

Chernihiv Polytechnic National University,  
Ukraine



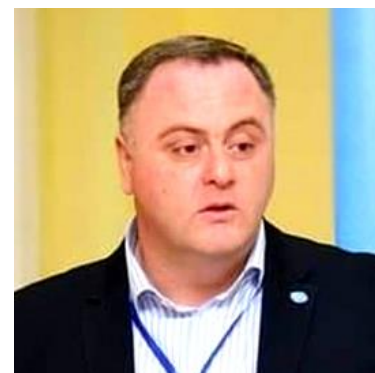
**Serhii Hushko**

State University of Economics and Technology,  
Ukraine



**Ewa Matuska**

Pomeranian University in Słupsk, Poland



**Badri Gechbaia**

Georgian Academy of Business Sciences,  
Georgia



**Włodzimierz Strelcow**  
Pomeranian University in Słupsk, Poland



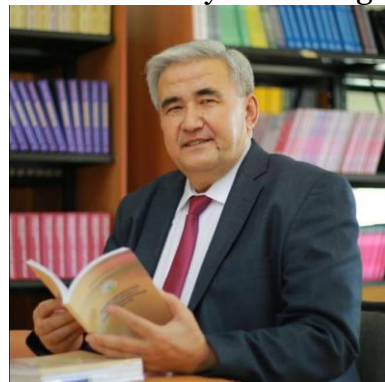
**Andriy Matviychuk**  
Kyiv National Economic University named  
after Vadym Hetman, Ukraine



**Giuseppe T. Cirella**  
Faculty of Economics,  
University of Gdansk,  
Sopot, Poland



**Arnold Kiv**  
Ben-Gurion University of the Negev, Israel



**Abdukhakim  
Mamanazarov**  
Founder of the Center of Economic Culture  
Development, Uzbekistan



**Michael Radin**  
Rochester Institute of Technology, USA

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# SCIENCE COMMITTEE

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European institute of further education, Slovakia

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Ain Shams University, Egypt

**Iveta Mietule**

Rezekne Academy of Technologies, Latvia

**Inese Mavlutova**

BA School of Business and Finance, Latvia

# SESSION 1

## SUSTAINABLE AND EFFICIENT USE OF ENERGY RENEWABLE, SMART AND GREEN ENERGY DEVELOPMENT

CO-HEADS

**Viktoriya Margasova**

Doctor of Economics Sciences, Professor, National University Chernihiv Polytechnic, Ukraine

Moderator: **Sofiia Kafka**

Doctor of Economics Sciences, Professor, Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

1	Investment Prospects for the Development of Renewable Energy of Ukraine in the Framework of Global Trends	O. Mykoliuk, V. Dzhedzhula, M. Dykha, V. Fostolovych, T. Botsian,
2	Calculation of the Efficiency of the Functioning of the Electricity Market of the Western Region of Ukraine	K. Pavlov, O. Pavlova, T. Kotsko, O. Novosad, L. Matiychuk
3	Structural Changes in Ukraine's Electricity Generation and their Impact on the Reduction of CO <sub>2</sub> Emissions	M. Kyzym, V. Khaustova, L. Horal, V. Shpilevskiy, V. Zinchenko
4	The European Green Deal: Shaping the Future of the Eastern Partnership	O. Tsebenko, O. Ivasechko, Y. Turchyn, N. Lukach
5	Hierarchical Cluster Analysis of the Regions of Ukraine Relative Ecological State	V. Matskul, L. Kyrylova, V. Chernyshev, M. Matskul
6	The states of Reversibility in the Energy-related Markets and their Identification	A Bielinskyi, V Soloviev, V Solovieva, A Matviychuk, S Hushko
7	The optimization of Ukraine's Gas Transmission System Architecture for the Sake of Sustainable Development	L. Horal, V. Onyshchenko, V. Shyjko, S. Dub, O. Oleksyn
8	Resource Efficiency and Pricing policy of Industries in the Sustainable Development Context	N. Shmygol, W. Łuczka, I. Khvostina, Z. Chyba, O. Galtsova
9	Architectonics of cities and communities sustainable development	N. Shebek, V. Timokhin, O. Olkhovets, Y. Tretiak



# SESSION 2

## SCIENCE AND TECHNOLOGY IN THE FIELD OF ENVIRONMENT

CO-HEADS

**Nazar Popadynets**

Doctor of Economics Sciences, Professor, Lviv Polytechnic National University, Ukraine

Moderator: **Myroslava Popadynets**

Lecturer of the Lviv State College of Food and Processing Industry of the National University of Food Technologies, Ukraine

1	A model for Forecasting Environmental Problems Arising Because of Oil and Gas Industry	U. Berezhnytska, T. Sheydai, O. Yatzuk, Y. Bui
2	Composting as an Ecotechnology for Municipal Solid Waste Management	N. Grynchyshyn, T. Shuplat, T. Datsko, T. Mazurak, V. Shukel
3	Integrated Approach to Land Management with Self-sown Forests in Ukraine	N. Stoiko, A. Kostyshin, O. Cherechon, O. Soltys, M. Smoliarchuk
4	Management of the Environmental Potential of Freshwater Resources in the Conditions of Sustainable Development	I. Irtysheva, I. Khvostina, Y. Sytnyk, N. Burkle, T. Husakovska
5	Methodology of Ensuring Sustainable Land Use of Ukraine in the Context of Climate Change	I. Matvieieva, I. Novakovska, V. Groza, N. Ishchenko, L. Skrypnyk
6	Solid Waste Market: Cross-country Analysis	Y Hayda, O Dluhopolskyi, T Zatonatska, T Haida, M Lavrentiev
7	Structural Capital as a Factor of Technical and Technological Development of Society	Yu Pylypenko, Yu Dubiei, I Guzenko, N Fedorova
8	Waste Management in Local communities of Ukraine: Problems, Scenarios, Perspectives	J. Dušek, A. Pochtovyuk, A. Kasych, V. Semenikhina, O. Onyshchenko
9	A New Concept for Carbon Dioxide Elimination from Combustion Plants Flue Gases	V T Panayotov, M I Panayotova
10	Development of the Environmental Market in Ukraine in the Strategic Perspective	V. Rodchenko, I. Skorokhod, O. Karlova, L. Horbach, D. Skorokhod

# SESSION 3

## RISK MANAGEMENT IN ENERGY, EARTH AND ENVIRONMENT SYSTEMS

CO-HEADS

**Iryna Fadyeyeva**

Doctor of Economics Sciences, Professor, Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

Moderator: **Nataliya Yashcheritsyna**

Lecturer of the Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

1	Environmental Component of Sustainable Development of Territorial Communities	N. Tkalenko, O. Mykhailovska, L. Ostapenko
2	Geospatial Data is “the fuel” for Ensuring the Sustainable Development of Agriculture and Environment of Ukraine in the Postwar Period	Y. Karpinskyi, A. Lyashchenko, N. Lazorenko, D. Kin
3	Modeling the Sustainable Development of the Foreign Economic Activity of Agricultural Enterprises (Case for Ukraine)	I. Boryshkevych, L. Halas, V. Yakubiv, I. Hryhoruk, M. Turala
4	Profit as a Main Factor in Forecasting Agricultural Business Development	L. Bal-Prylypko, O. Cherednichenko, L. Stepasyuk, Z. Titenko
5	The Analysis of the Impact of Agricultural Investments on the Food Security System	G. Pruntseva, N. Popadynets, V. Bondarenko, I. Ivashchuk, O. Kopylyuk
6	Clusterization of Ukraine Regions According to the Integrated Index of Ecological and Economic Security in the Destructive Phenomena Conditions	M. Vavrin, T. Zatonatska, A. Poltoratska
7	Improving the Decision Support System for Managing Financial Risks of Investment Activities of Oil and Gas Companies	I. Fadyeyeva, U. Vytvytska, A. Pyrih
8	The Impact of the Covid-19 Pandemic on Socio-Economic Development in the Context of Achieving the SDG8 and SDG9: Evidence from Ukraine	P Hryhoruk, N Khrushch, S Grygoruk
9	The Digital Transformation of Creative Industries as an Management Imperative of Information Security of Society on a Parity-Legal Basis	V Prokhorova, J Bezuhla, N Chechetova, R Korzh, O Orel
10	Vectors of Sustainable Development of Hospital Architecture (Case for Poland)	I V Bulakh

# SESSION 4

## MANAGEMENT IN A CIRCULAR ECONOMY

CO-HEADS

**Viktorija Prokhorova**

head of the Department of Economics and Management of Ukrainian Engineering Pedagogics Academy

**Moderator: Anastasiia Protsenko**

PHD, Assistant professor of the Department of Economics and Management of Ukrainian Engineering Pedagogics Academy

1	Adaptation of Educational and Environmental Strategies of Society in the Conditions of Cyclic Economy Development	N. Gavkalova, H. Poliakova, Y. Lola, V. Smalskys, O. Tavshunskyi
2	Challenges and Barriers in Transition to Circular Economy Business Models	T. Maisuradze, N. Paresashvili, B. Gechbaia, K. Goletiani, L. Gvarishvili
3	Convergence of Educational Technologies as an Imperative for the Development of Innovation Cooperation in the Context of Circular Transformation	V. Prokhorova, D. Kovalenko, S. Mushnykova, A. Babichev
4	Creative Educational Technologies to Build a Professional and Technical Foundation for Sustainable Development	I. Shcherbyna, N. Ruban, Yu. Chernenko, K. Slastianyukova
5	Financial and Economic Mechanism of the Regulation of Sustainable Development of Economic Entities in a Circular Economy: Institutional Dominants	Y. Yukhman, O. Bytiak, A. Protsenko, K. Slastianyukova
6	Global Trends in the Behavior of Consumers of Retail Enterprises in the Digital Economy	T. Kalashnikova, A. Panchuk, L. Bezuhla, Y. Vladyka, A. Kalashnikov
7	Holistic Evaluation System of R&D Products in a Circular Economy	L.Horal, O. Mrykhina, O. Koleshchuk, K. Slastianyukova, M. Harmatiy
8	Motivational Management of Enterprise Innovation Development in the Context of Limited Resources	O. Arefieva, S. Piletska, Z. Poberezhna, S. Arefiev, A. Kwilinski
9	Spatial Management of Enterprise Resource Supply Adaptation in Circular Economy Conditions	O. Arefieva, A. Kovalchuk, V. Tytykalo, Y. Kopcha
10	Corporate Management of Sustainable Development Goals as a Driver for Solving Global Environmental Problems	A. Kasych, Z. Rowland, O. Onyshchenko, V. Plavan, S. Bondarenko
11	The Paradigm of Emergent Qualities of Education Management as a Scientific and Technological Platform for Sustainable Development	V. Prokhorova, O. Kovalenko, O. Bozhanova, H. Zakharchyn

# SESSION 5

## GLOBAL AND REGIONAL CHALLENGES FOR THE DEVELOPMENT OF COMMUNITIES AND TERRITORIES

CO-HEADS  
**Sofiia Kafka**

Doctor of Economics Sciences, Professor, Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

Moderator: **Oleksandr Oleksyn**

Lecturer of the Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine

1	Adhocratic Mechanisms of Formation of Innovative and Creative Directions for Business Entities Development in Conditions of Transparency of Economics	V Chobitok, O Mnykh, R Brytskyi, Y Us
2	Circular Transformation of Business as a Global Trend of Sustainable Socio-Economic Environment	V. Prokhorova, O. Shkurenko, I. Miahkykh, V. Dalyk, O. Kostiuk
3	Consolidation of Business Processes in Ensuring Sustainable Development of the Region	Kh. Zalutska, Y. Fedorova, T. Obydiennova, O. Prykhodchenko
4	Determination of the Competitiveness of Cities and Districts of the Odessa Region	I. Azhaman, N. Petryshchenko, T. Oklander, A. Pandas
5	Effects of Regional Smart Transformation	T Skrypko, Y Khromyak, R Bilyk, N Popadynets, M Turala
6	Development of Medical Infrastructure of Territorial Communities of Ukraine in the Conditions of Sectoral Reforms	M. Karpiak, O. Panukhnyk, O. Halachenko, O. Sorokivska, V. Zvirych
7	Development of Territorial Communities: Aspects of Natural Capital Conservation and Budget Financing	A. Yakymchuk, O. Panukhnyk, L. Horal, S. Hrynkevych, Y. Rohozian
8	Methodology for Assessing the Sustainable Development of Administrative-Territorial Units	I. Koshkalda, D. Hoptsii, H. Morozova, O. Scoromna, V. Gurskienė
9	Participatory Budgeting as a Public Mechanism for Diagnosing Priorities of Territorial Communities	A. Tomashevska, V. Yakubiv, Yu. Maksymiv, I. Hryhoruk
10	Poly-Scale Principle of Urban Environment Geoinformation monitoring	Yu. Karpynskyi, A. Lyashchenko, I. Patrakeyev, V. Ziborov
11	Social-Ecological challenges of the Quality of Life Management in the Region	M. Bil, N. Popadynets, O. Svatiuk, L. Shymanovska-Dianyach, I. Sedlakova
12	State-Legal Provision of Dynamic Informational Development of Socio-Economic Environment	V. Chobitok, Yu. Bytiak, I. Fedotova, K. Lytvynenko
13	Territorial Communities of Ukraine in the Context of Decentralization	R. Sodoma, O. Sadura, N. Popadynets, N. Kotys, O. Panukhnyk

## TRAINING

Time	Action	Speaker
11:00-12:45	Stop Working On Hydrocarbon Energy Projects	Mr. Kilich Zeki Foreign affair manager "YTL ENERGY & ENGINEERING LTD" Turkey
12:45-13:00	Break	
13:00-15:00	The states of reversibility in the energy-related markets and their identification	Andrii Bielinskyi Data Scientist at Kryvyi Rih State Pedagogical University Ukraine