

**Ministry of Education and Science of Ukraine
Ivano-Frankivsk National Technical University
of Oil and Gas**

PROGRAM

of the

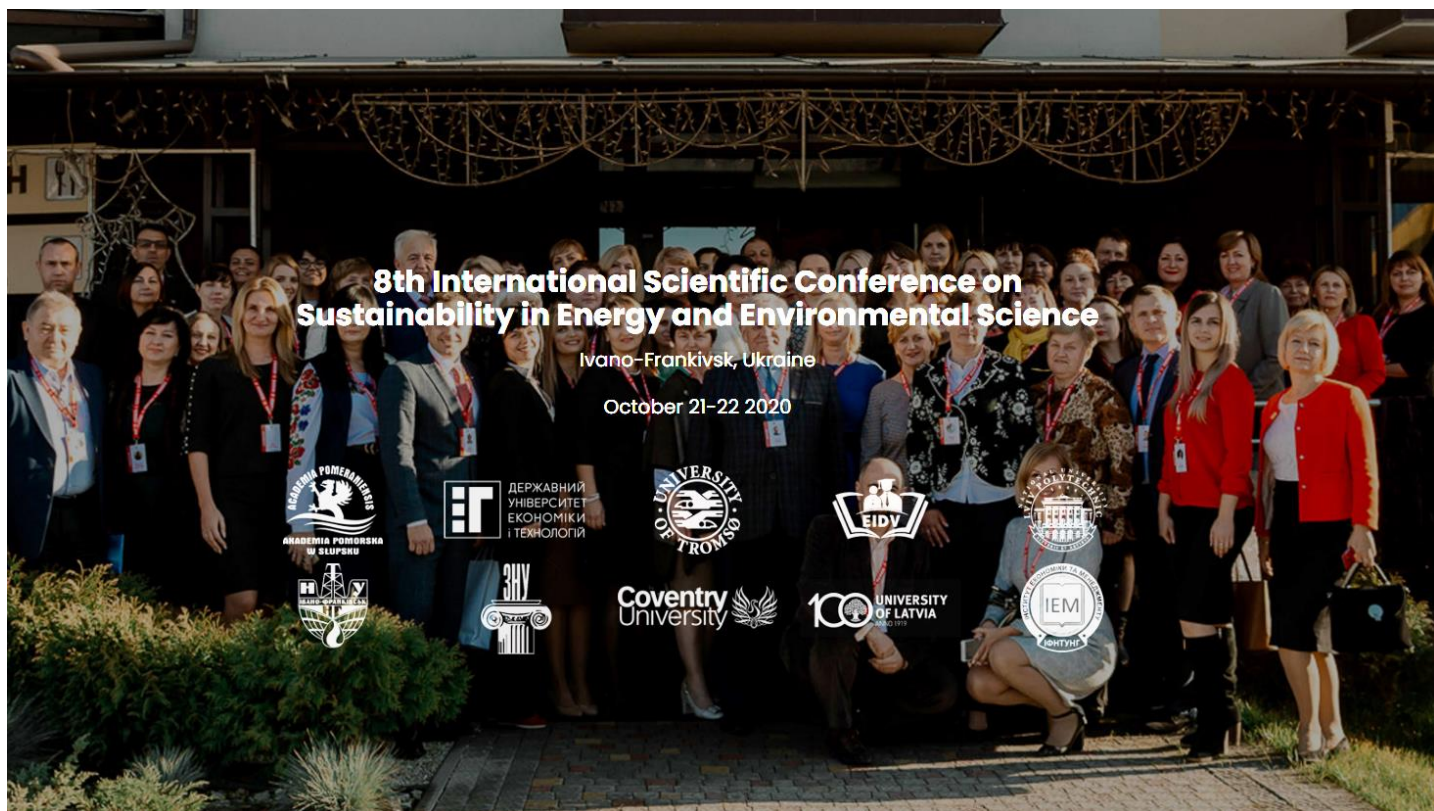
**8th International Scientific Conference
on Sustainability in Energy
and Environmental Science**

ISCSEES 2020

iscsees.nung.edu.ua

October 21-22, 2020

Ivano-Frankivsk, Ukraine



ISCSEES 2020

**8th International Scientific Conference
on Sustainability in Energy
and Environmental Science**



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Dear colleagues!

**We invite you to participate in 8th International Scientific Conference
on Sustainability in Energy and Environmental Science**

The conference will take place **ONLINE** on **October 21-22, 2020**
in Ivano-Frankivsk, Ukraine

Joining the conference:

Meeting ID: **meet.google.com/smy-deny-fjk**

PIN: **310 292 710 #**

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

The 8th International Scientific Conference on Sustainability in Energy and Environmental Science (ISCSEES2020)

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 on sustainability in energy and environmental science related topics.

Conference topics:

Sustainable Development.

Sustainable and Efficient Use of Energy.

Renewable, Smart and Green Energy Development.

Sustainable and Efficient Use of Natural Resource.

Environmental Management.

Environmental Science and Technology.

Environmental Restoration, Ecological Engineering and Eco-technology.

Agriculture and Environment Sustainability.

Green Enterprise Development.

Modelling and Regional Environmental Assessments.

Risk Management in Energy, Earth and Environment Systems.

Measuring, Forecasting and Monitoring Sustainability.

Global threats, Disaster and Mitigation.

Conference language: English.

SCHEDULE OF THE CONFERENCE

October 21-22, 2020

Date	Time	Action
21.10.20	11.45-12.00	Joining the conference Meeting ID: meet.google.com/smy-deny-fjk PIN: 310 292 710 #
	12.00	Opening of the conference. Plenary session
	14.15	Break
	15.00	Plenary session
	18.00	Closing of the plenary session
22.10.20	11.00 – 13.00	Work in sessions. Session 1
	13.00 – 14.40	Work in sessions. Session 2
	15.00 – 17.30	Work in sessions. Session 3
	17.30	Summing up and closing of the conference

SPEAKERS



Richard Tomlins
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Coventry, England



Arnold Kiv
Ben-Gurion University of
the Negev, Israel



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Gromadka Commune
Office, Poland



Liliana Horal
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Rochester Institute Of
Technology, USA



Serhiy Kurovets
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University of Oil and
Gas, Ukraine



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



Ewa Matuska
Pomeranian Academy in
Slupsk, Poland



Andriy Zaikin
Founder and CEO at
YEP - network of
academic startup
incubators



Baard Borch
UiT The Arctic University
of Norway, Norway

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Specialist of the Center of Ukrainian and Polish Cooperation,
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President of International Academy of Information Science

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Associate Professor, International Academy of Information Science

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Viktor Oliinyk, Sumy State University, Ukraine

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Władysława Łuczka, Poznań University of Life Science, Poland

Tetiana Bukoros, European institute of further education, Slovakia

Vlastimil Vicen, School of Economics and Management of Public Administration in Bratislava, Slovakia

Dariusz Pawliszczy, Gromadka Commune Office, Poland

Ramesh Chandra Rath, Einstein Academy of Technology and Management, India

PLENARY SESSION

**Congratulations to Participants of the 8th International
Scientific Conference on Sustainability in Energy
and Environmental Science**

**Current trends in the development of the oil and gas industry
in the context of earth sciences**

**Yevstakhii Kryzhanivskiy, Ivano-Frankivsk National
Technical University of Oil and Gas, Ukraine**

**An analysis of Research for the Sustainable Development
of Energy and Earth Sciences**

**Liliana Horal, Ivano-Frankivsk National
Technical University of Oil and Gas, Ukraine**

**Playfulness for Creativity and Innovation: A
Disruptive Approach to Education 4.0 and Sustainability**

Richard Tomlins, Coventry University, Coventry, England

Online Training of Energy Industry Specialists

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

Functioning effectively within limited resources

Michael Radin, Rochester Institute Of Technology, USA

Sustainability in Energy and Environmental Sciences

Baard Borch, UiT The Arctic University of Norway, Norway

PLENARY SESSION

Current trends in Technology Transfer for Sustainability in Energy and Environmental Sciences

Jozef Zat'ko, European institute of further education, Slovakia

Sustainable Development in Earth, Energy and Environmental Reseaches

Giuseppe T. Cirella, University of Gdansk, Sopot, Poland

Sustainable Development in Energy and Environmental Science: Modern Approaches

Ewa Matuska, Academy of Pomorskayain Slupsk, Poland

Information system for assessing environmental-economic regional development based on factor analysis and expert evaluations

Oleg Pursky, Kyiv National University of Trade and Economics, Ukraine

Modeling of bioenergy impact on food security of EU countries

**Olena Panukhnyk, Ternopil Ivan Puluj National
Technical University, Ukraine**

Innovative Entrepreneurship and Startup Ecosystem

**Andriy Zaikin, YEP - network of academic startup incubators,
Ukraine**

Sustainability in Environmental Sciences

**Serhiy Kurovets, Ivano-Frankivsk National Technical
University of Oil and Gas, Ukraine**

SESSION 1

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

CO-HEADS

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

Vladimir Soloviev, Kryvyi Rih State Pedagogical University, Ukraine

Richard Tomlins, Coventry University, Coventry, England

1	Mykhaylo Voynarenko, Oksana Mykoliuk, Hanna Kucherova and Valentyna Bobrovnyk	Factorial model of the strategy of increasing the level of energy security of enterprises in terms of resource-saving
2	Olena Panukhnyk, Iryna Hryhoruk, Nazariy Popadynets, Hryhoriy Khymych and Yana Fedotova	Modeling of bioenergy impact on food security of EU countries
3	Halyna Zelinska, Uliana Andrusiv, Iryna Fedorovych, Inesa Khvostina and Oleksandr Astafiev	Rational resource in the context of forming a model of using fuel and energy resources expenditure
4	Valeriy Heyets, Mykhailo Voynarenko, Viacheslav Dzhezdzhula, Iryna Yepifanova and Tadeusz Trocikowski	Models and strategies for financing innovative energy saving activities

5	Serhii Kharin, Obidjon Xamidov, Ganna Purij, Oleg Padalka and Volodymyr Kulishov	Investigation into International Innovative Management of Creating and Producing Electric Cars
6	Ivanna Zapukhliak, Oleh Dzoba, Oleksandra Romashko and Nataliia Krykivska	The sustainable development of gas transmission companies of Ukraine through the formation of an effective energy saving mechanism
7	Volodymyr Podhurenko, Iryna Kovshova, Volodymyr Terekhov and Nataliia Dubovyk	Evaluation of efficiency of wind power stations use in wind conditions of the Northern Black Sea coast of Ukraine
8	Sviatoslav Kryshtopa, Liudmyla Kryshtopa and Myroslav Panchuk	Composition and energy value research of pyrolise gases
9	Yulia Bezugla, Yana Kononenko, Alexey Bityak, Anna Zaitseva and Natalia Zakharchin	Renovation and sustainable development of the industrial energy enterprise: economic and legal management mechanism
10	O Mnykh, O Dikan, B Yukhnov, L Kvasova and M Shkvaryluk	The role of personnel motivation in the risk management system of energy companies with employee stock ownership
11	Olexandr Yemelyanov, Tetyana Petrushka, Orest Koleshchuk, Iryna Miahkykh and Yaroslav Sekirozh	Requirements and conditions for ensuring sustainable energy-saving economic development of enterprises
12	Olena Liutak, Olena Baula, Anatolii Poruchnyk, Yaroslava Stoliarchuk, Pavlo Kravchuk and Yuliia Kostynets	The development of renewable energy in the context of formation of innovative economy and energy independence as the geopolitical priorities of the state

SESSION 2

**ENVIRONMENTAL MANAGEMENT. ENVIRONMENTAL
SCIENCE AND TECHNOLOGY.**

**ENVIRONMENTAL RESTORATION, ECOLOGICAL
ENGINEERING AND ECO-TECHNOLOGY.**

**SUSTAINABLE AND EFFICIENT USE OF NATURAL
RESOURCE.**

CO-HEADS

Michael Radin, Rochester Institute Of Technology, USA

**Victoria Solovieva, State University Economics and Technology,
Ukraine**

**Inesa Khvostina, Ivano-Frankivsk National Technical University
of Oil and Gas, Ukraine**

1	Andrii Bielinskyi, Inesa Khvostina, Andrii Matviychuk, Serhiy Semerikov, Olexander Serdyuk, Victoria Solovieva and Vladimir Soloviev	Predictors of oil shocks. Econophysical approach in environmental science
2	Oleg Pursky, Arnold Kiv, Tetiana Dubovyk, Iryna Buchatska and Hanna Danylchuk	Information system for assessing environmental-economic regional development based on factor analysis and expert evaluations
3	Liliana Horal and Vira Shyiko	Sustainable development of forest recreation management as a basis for environmental safety

4	Mykola Kyzym, Nataliia Gavkalova, Yuliia Lola, Svitlana Prokopovych and Pradeep Jain	Changes of the state environment during economic crisis period
5	Viktoriiia Dmytrenko, Ivan Zezekalo, Yuriy Vynnykov and Andrii Manhura	Efficiency evaluation of using highly mineralized reservoir waters for preventing hydrate formation of natural gas in the conditions of Zakhidno-Radchenkivske gas-condensate field
6	Mykola Prykhodko, Liliana Horal, Iryna Perevozova, Nadiia Daliak, Vira Shyiko and Lyudmyla Voitkiv	Experimental management of ecological security of territorial facilities for forecasting the developing economy dynamics
7	Igor Yeremeyev, Alina Dychko and Natalya Remez	Problems of sustainable development of ecosystems
8	Turkan Sheydai, Olena Nykyforuk, Uliana Berezhnytska, Ivanna Melnychuk and Ilona Mandryk	Environmental management in small and medium-sized enterprises of oil and gas industry
9	Matskul Valerii, Kovalev Anatolii and Saensus Mariyia	Optimization of the cold supply chain logistics network with an environmental dimension
10	Nadiia Shmygol, Oleksii Solovyov, Maja Kasianok and Dariusz Pawliszczy	Model of sectoral competitiveness index by environmental component

SESSION3

**SUSTAINABLE DEVELOPMENT.
AGRICULTURE AND ENVIRONMENT SUSTAINABILITY.
GREEN ENTERPRISE DEVELOPMENT.
MODELLING AND REGIONAL ENVIRONMENTAL
ASSESSMENTS. RISK MANAGEMENT IN ENERGY, EARTH
AND ENVIRONMENT SYSTEMS. MEASURING, FORECASTING
AND MONITORING SUSTAINABILITY.
GLOBAL THREATS, DISASTER AND MITIGATION.**

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Serhiy Semerikov, Kryvyi Rih State Pedagogical University, Ukraine

**Abdukhakim Mamanazarov, State University named after
M.V.Lomonosov, Uzbekistan**

Giuseppe T. Cirella, University of Gdansk, Sopot, Poland

1	Inesa Khvostina, Viktor Oliinyk, Victoria Solovieva, Valerii Yatsenko and Tetiana Panevnyk	Hazards and risks in assessing the impact of oil and gas companies on the environment
2	Hanna Kucherova, Olga Pokataeva, Olena Chala and Olha Bilka	A fuzzy logic inference for evaluating level of greening and resource saving the economic systems
3	Yanina Belinska, Liudmyla Matvejciuk and Nadiia Shmygol	EU agricultural policy and its role in smoothing the sustainable development of the eu's agricultural areas

4	Andrii Kaminskyi, Maryna Nehrey and Larysa Zomchak	COVID-19: crisis or new opportunities time for the agricultural sector of Ukraine
5	Inga Uvarova, Inese Mavlutova and Dzintra Atstaja	Development of the green entrepreneurial mindset through modern entrepreneurship education
6	Richard Tomlins, Oksana Malynka, Arun Sukumar, Mimi Rao and Kaushik Pandya	Radical Innovation Process and Knowledge Management: Toyota Prius Case Study
7	Pavlo Hryhoruk, Nila Khrushch and Svitlana Grygoruk	Assessing the impact of COVID-19 Pandemic on the regions' socio-economic development: the case of Ukraine
8	Serhii Smerichevskyi, Igor Kryvovyazyuk, Viktoriya Prokhorova, Włodzimierz Usarek and Alla Ivashchenko	Expediency of symptomatic diagnostics application of enterprise export-import activity in the disruption conditions of world economy sustainable development
9	Olena Iarmosh, Viktoria Prokhorova, Iryna Shcherbyna, Olga Kashaba and Kristina Slastianyko	Innovativeness of the creative economy as a component of the Ukrainian and the world sustainable development strategy
10	George Abuselidze and Zura Jegnaradze	Problems of National Economy Management and Economic Prosperity in the context of Financial Globalization
11	Pavlo Zakharchenko, Ganna Kostenko, Svitlana Zhvanenko and Viktor Mukhin	The role of demand for sustainable tourism in local economic growth on the way to green economy
12	Liliia Bodnar, Oleksiy Chebykin, Kostyantyn Belenko, Nataliya Yaremchuk and Arnold Kiv	Online learning in pandemic conditions
13	Valentina Lukianova and Tatiana Golovach	Rationale and selection of criteria for the risk management process
14	Valentyna Stadnyk, Galyna Sokoliuk, Galyna Pchelianska and Julija Holovchuk	Determinants of "green entrepreneurship" competitive strategies implementation in the agro-industrial sector of Ukraine
15	Sergiy Hushko, José Manuel Botelho, Irina Maksymova, Kateryna Slusarenko and Volodymyr Kulishov	Modern Digitalization Paradigm of Ukraine Financial Market

16	Vasyl Kozyk, Olena Liutak, Lidiya Lisovska, Oleksandra Mrykhina and Ihor Novakivskyj	Models for assessing the impact of innovative activity of business entities on the macroeconomic indicators of Ukraine
17	Ihor Novakivskyj, Vasyl Kozyk, Oleksandra Mrykhina, Lidiya Lisovska and Iryna Zinchuk	Macroeconomic equilibrium models for analysis the innovative development of cellular networks in Ukraine
18	Hanna Matukova, Valentyna Khrapkina, Natalya Bahashova, Dariya Matukova-Yaryha and Mansur Mamanazarov	Model of enterprise strategic development under unstable economic conditions
19	Olena Arefieva, Zarina Poberezhna, Samira Piletska, Viktoriia Khaustova and Dmytro Zyz	Monitoring the economic sustainability of business processes of the enterprise: investment and security aspect
20	Olena Arefieva, Olga Polous, Serhii Arefiev, Volodymyr Tytykalo and Aleksy Kwilinski	Managing human capital reproduction in the system of enterprise`s organizational behavior
21	O Bozhanova, A Putro, V Dalyk, Ya Yuhman and K Azizova	Complex-system approach to multicriteria assessment of sustainable development of industrial enterprises



FOR NOTES

