

Our sustainable pandemic future

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Abstract. This is an introductory text to a collection of papers from the ICSF 2021: Second International Conference on Sustainable Futures: Environmental, Technological, Social, and Economic Matters, which held at Kryvyi Rih National University, Kryvyi Rih, Ukraine, on May 19-21, 2021. It consists of an introduction, conference topics review, and some observations about the event and its future.

ICSF 2021 at a glance

The International Conference on Sustainable Futures: Environmental, Technological, Social and Economic Matters (ICSF) is a peer-reviewed international conference, which is the premier interdisciplinary forum for social scientists, life scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications (Fig. 1).



Fig. 1. ICSF 2021 logo (designed by Dr. Andrii Striuk).

The ICSF occupies contributions in all aspects of sustainable development, focused on the intersection of sustainability, environment and technology, and their more significant implications for a corporation, government, education institutions, regions, and society both at present and in the future.

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ICSF has two presentation levels, Pre-conference Workshops and Main Conference.

Ecochemistry Education for Sustainable Development Workshop

Ecochemistry Education for Sustainable Development Workshop (EcoChemSD-WS'2021) is a peer-reviewed international workshop that occupies contributions in all aspects of environmental chemistry and ecochemistry, ecochemistry education, and modern educational technologies.

EcoChemSD-WS'2021 main topics of interest are:

- Ecochemistry research for the sustainable development
 - Environmental chemistry for the sustainable development
 - Ecochemistry education for the sustainable development
 - Green Chemistry
 - Environmental remediation technologies
 - Modern educational technologies in the chemistry education
 - Chemistry teacher's training for the sustainable future
- EcoChemSD-WS'2021 Program Committee chair is Dr. Pavlo Nechypurenko.

Geography for Sustainable Development Workshop

Geography for Sustainable Development Workshop (GSD-WS'2021) is a peer-reviewed international

workshop. During the GSD-WS'2021, the researchers who are committed to the problems of geography for sustainable development can present their latest research findings, ideas, developments and programs.

GSD-WS'2021 main topics of interest are:

- Geographical bases of sustainable future: methodological bases
- Problems and prospects for the development of physical and socio-economic geography in the context of sustainable future
- Regional problems of sustainable future and local lore research of territories
- Cartographic research and geoinformatics: theory and practice
- Noosphere nature management is the key to a sustainable future
- The theory of sustainable future in geographical education.

GSD-WS'2021 Program Committee chair is Dr. Olga Bondarenko.

Water Management and Environmental Engineering Workshop

Water Management and Environmental Engineering Workshop (WaterManEnvE-WS'2021) is a peer-reviewed international workshop. WaterManEnvE-WS'2021 occupies contributions in all aspects of water management and environmental engineering, environmental education and modern educational technologies.

WaterManEnvE-WS'2021 main topics of interest are:

- Water Management and water resources use
- Monitoring of water resources
- Irrigation and Drainage
- Water treatment and water supply
- Hydraulic Engineering & Hydraulics
- Hydropower

WaterManEnvE-WS'2021 Program Committee chairs are Dr. Serhii Chukharev and Dr. Serhii Klimov.

Innovative Approaches for Solving Environmental Issues Workshop

Innovative Approaches for Solving Environmental Issues Workshop (IASEI-WS'2021) is a peer-reviewed international Sustainable Computing workshop focusing on advanced research on Sustainable Computing. The workshop occupies contributions in all aspects of sustainable computing, reflecting modern engineering and technological solutions of the information technology era in the sustainable development of society.

IASEI-WS'2021 main topics of interest are:

- Environmental protection.
- Nuclear and radiation safety.
- Complex, economic and technological solutions.
- Problems of training and advanced training.

IASEI-WS'2021 Program Committee chair is Prof. Andrii Iatsyshyn.

Main Conference

Workshop and Conference presentations are grouped into 11 tracks:

1. Geotechnical and Geoenvironmental Engineering [1-8]
2. Measuring, Forecasting and Monitoring Sustainability [9-18]
3. Sustainable Building and Architecture [19-25]
4. Sustainable Cities and Society [26-39]
5. Sustainable Energy [40-55]
6. Sustainable Environment and Environmental Management [56-65]
7. Sustainable Materials and Technologies [66-84]
8. Sustainable Mining [85-105]
9. Innovative Approaches for Solving Environmental Issues [106-129]
10. Water Management and Environmental Engineering [130-140]
11. Ecochemistry and Geography Education for Sustainable Development [141-155]

This volume contains the papers presented at ICSF 2021: Second International Conference on Sustainable Futures: Environmental, Technological, Social, and Economic Matters held on May 19-21, 2021 in Kryvyi Rih, Ukraine.

There were 217 submissions. Each submission was reviewed by at least 3, and on the average 3.2, program committee members. The committee decided to accept 155 papers.

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Conclusion

The vision of the ICSF 2021 is to create a leading interdisciplinary platform for researchers, practitioners and educators, to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of sustainability.

The conference is a successfully performing forum for transferring and discussing research results among the academics, students, teachers, government, private sector, or industries. Participants and presenters from Azerbaijan, Belarus, Brazil, Bulgaria, Canada, China, Croatia, Czechia, Finland, France, Georgia, Germany, Hungary, India, Indonesia, Iran, Israel, Jordan, Kazakhstan, Kuwait, Kyrgyzstan, Latvia, Libya, Lithuania, Mauritius, Mongolia, Montenegro, Morocco, Netherlands, Nigeria, Norway, Poland, Romania, Russia, Saudi Arabia, Serbia, Slovakia, Svalbard and Jan Mayen, Tajikistan, Turkey, Ukraine, United Kingdom, United States, and Viet Nam have a conference experience to share their significant contribution in the research of the environmental, technological, social and economic issues of sustainable future.

We are thankful to all the authors who submitted papers and the delegates for their participation and their interest in ICSF as a platform to share their ideas and innovation [156]. Also, we are also thankful to all the program committee members for providing continuous guidance and efforts taken by peer reviewers contributed to improve the quality of papers provided constructive critical comments, improvements and corrections to the authors are gratefully appreciated for their contribution to the success of the conference. Moreover, we would like to thank the developers and other professional staff of Not So Easy Science Education platform (<https://notso.easyscience.education>), who made it possible for us to use the resources of this excellent and comprehensive conference management system, from the call of papers and inviting reviewers, to handling paper submissions, communicating with the authors etc.

We are looking forward to excellent presentations and fruitful discussions, which will broaden our professional horizons. We hope all participants enjoy this conference and meet again in more friendly, hilarious, and happiness of further ICSF 2022.

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