

## Our sustainable coronavirus future

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**Abstract.** This is an introductory text to a collection of papers from the ICSF 2020: The International Conference on Sustainable Futures: Environmental, Technological, Social, and Economic Matters, which held at Kryvyi Rih National University, Kryvyi Rih, Ukraine, on May 20-22, 2020. It consists of an introduction, conference topics review, and some observations about the event and its future.

### ICSF 2020 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 2020 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.

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'2020) 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'2020 main topics of interest are:

- ecochemistry research for the sustainable development;
- environmental chemistry for the sustainable development;
- ecochemistry education for the sustainable development;
- modern educational technologies in the chemistry education;
- chemistry teacher's training for the sustainable future.

EcoChemSD-WS'2020 Program Committee chair is Dr. Pavlo Nechypurenko.

#### *Fintech, Greener Economy & Finance Workshop*

Science has confirmed that the world is facing an environmental emergency. As it stands, very few countries are on track to meet either their national climate targets or reach the Sustainable Development Goals. It is now clear that we need a radically different approach to governing our economies. A green economy defined as low carbon, resource-efficient, and socially inclusive. In a green economy, growth in employment and income is

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driven by public and private investment into such economic activities, infrastructure, and assets that allow reduced carbon emissions and pollution, enhanced energy and resource efficiency, and prevention of the loss of biodiversity and ecosystem services. New financial technologies (“fintech”) offer the potential to unlock green finance technologies, such as blockchain, the Internet of Things, and Big Data assisting in the transition to a greener economy. By reducing costs and boosting efficiency, fintech mobilizes green finance, enables poorer people to access clean energy through innovative payment systems, and facilitate free savings for rich and poor alike.

The financial markets and the promotion of sustainable finance play a crucial role in mitigating climate change. The topic will address in the Fintech, Greener Economy & Finance Workshop (FGE&F-WS’2020), which aims to provide a forum for different perspectives and ideas to stimulate the debate around sustainable future.

FGE&F-WS’2020 main topics of interest are:

- challenges of the green economy concept and policies in the context of sustainable development, poverty and equity;
- potential opportunities and risks of trade, arising in the transition to the green economy;
- impact of climate change on financial markets, and vice versa;
- means by which financial markets can support sustainable finance;
- significance of digitalisation, financial technology and data for green investments;
- challenges in defining sustainability;
- role of climate change in financial supervision and financial risks;
- blockchain applications for sustainable development;
- blockchain use-cases for renewable energy, decentralized electricity market, carbon credits and climate finance;
- innovation in financial instruments, including green bonds;
- fintech and risks and dangers;
- recommendations to design a sustainable financial and economical system.

FGE&F-WS’2020 Program Committee chairs are Prof. Vladimir Soloviev and Dr. Victoria Solovieva.

### *Geography Education for Sustainable Development Workshop*

Geography Education for Sustainable Development Workshop (GESD-WS’2020) is a peer-reviewed international workshop. During the GESD-WS’2020, the researchers who are committed to the problems of geographic education for sustainable development can present their latest research findings, ideas, developments, and programs.

GESD-WS’2020 main topics of interest are:

- geography education for the sustainable future: methodological foundations;
- pedagogical geoinformation technology: theory and

practice;

- geography teacher’s training for the sustainable future;
- innovative technologies in the school geographic education;
- cartographic territory research in terms of the sustainable future.

GESD-WS’2020 Program Committee chair is Dr. Olga Bondarenko.

### *Green IT Hub Workshop*

Green IT Hub Workshop (GITHub-WS’2020) 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.

GITHub-WS’2020 main topics of interest are:

- sustainable computing;
- software development for a sustainable society;
- information systems and technologies in the society sustainable development;
- cloud technologies and IoT in the society sustainable development.

GITHub-WS’2020 Program Committee chair is Prof. Tetiana Vakaliuk.

### *ICT in Education and Sustainable Futures Workshop*

ICT in Education and Sustainable Futures Workshop (ICT@ESF-WS’2020) is a peer-reviewed international workshop focusing on the efficient application of information and communication technologies in education, research, economics, ecology, and medicine for a sustainable future.

Contributions in all aspects of the sustainable use of ICT in education and science, reflecting modern solutions for the use of ICT in the sustainable development of society, can be submitted. Today, the most important goal is the ability to integrate the efficient application of ICTs in education, update the pedagogical science, and change education for a sustainable future most fully. It is necessary to give educators and researchers the opportunity to better understand the transformation of society through the use of ICT; to promote the development of new educational approaches and the creation of new educational materials using ICT in support of a sustainable future and “new humanism”; to support the exchange of experience and cooperation between teachers, lecturers and researchers in the dissemination of innovative practices in the use of ICT in education and research within the international educational community. It is vital to present the effective application of ICT in reinforcing the four foundations of learning in the 21st century: critical thinking, communication, collaboration, and creativity.

ICT@ESF-WS’2020 main topics of interest are:

- ICT in secondary education for a sustainable future society;



- ICT in higher education for a sustainable future society;
- ICT in research for a sustainable future;
- supporting the development of 21st century skills through ICT;
- integration of ICT into the economy of a sustainable development society;
- ICT in solving environmental problems of sustainable development.

ICT@ESF-WS'2020 Program Committee chair is Prof. Viacheslav Osadchyi.

### *Main Conference*

Main Conference presentations are grouped into 13 tracks:

1. Sustainable Environment and Environmental Management [1-13].
2. Geotechnical and Geoenvironmental Engineering [14-23].
3. Sustainable Mining [24-31].
4. Sustainable Energy [32-38].
5. Sustainable Computing [39-45].
6. Sustainable Materials and Technologies [46-57].
7. Sustainable Transport [58-62].
8. Sustainable Building and Architecture [63, 64].
9. Sustainable Cities and Society [65-69].
10. Sustainable Education [70-105].
11. Measuring, Forecasting and Monitoring Sustainability [106-108].
12. Corporate Sustainability and Corporate Social Responsibility [109, 110].
13. Sustainable Economy [111-141].

This volume contains the papers presented at ICSF 2020: The International Conference on Sustainable Futures: Environmental, Technological, Social, and Economic Matters held on May 20-22, 2020 in Kryvyi

Rih, Ukraine.

There were 285 submissions. Each submission was reviewed by at least 3, and on the average 3.5, program committee members. The committee decided to accept 141 papers.

### **ICSF 2020 venue**

Kryvyi Rih National University has almost 100-year experience in training generations of specialists (Fig. 2). It is one of the most prestigious higher educational institutions in Ukraine as well as the powerful regional center of Higher Education, science and culture.

Over 100 thousand students from 70 countries all over the world have trained in the university. Currently, the friendly university family includes more than eleven and a half thousand young people getting an education in over forty majors in full and part-time modes of study. Fruitful cooperation with partner universities abroad and integration of the participatory research results in the teaching process facilitate the university's internationally competitive level of education. The university scientists carry out a significant amount of research and design studies in the most urgent evolution directions and tendencies of industrial and social branches in Ukraine and other countries.

The mission of Kryvyi Rih National University is to contribute to the development of society employing competitive specialists training as well as inspiring a new generation of healthy and creative patriotic youth. Guiding principles for sustainable university development are multiplying achievements in science, education, culture, and continuing the proud traditions fostered by dynasties of scientists, professors and researchers. The constant development of the university makes sustainable ground for its promising prospects [142].



**Fig. 2.** Kryvyi Rih National University main building.

## ICSF 2020 program committee



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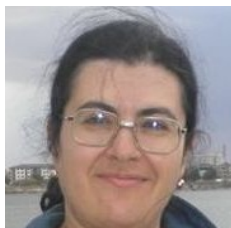
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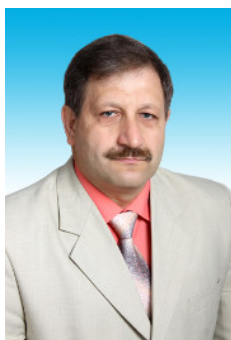
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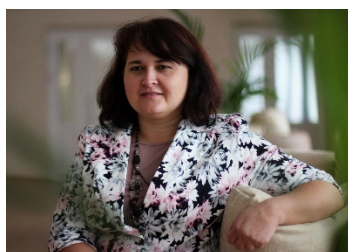
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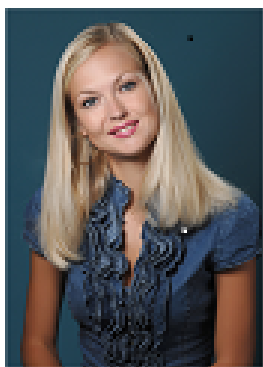
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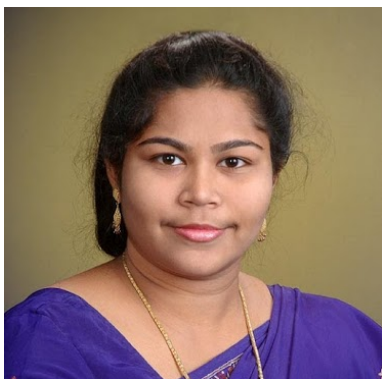


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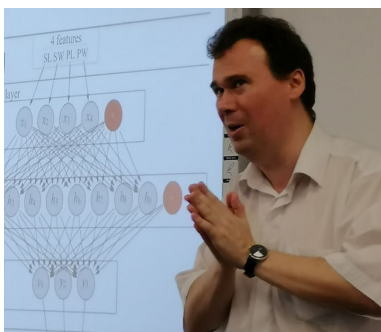
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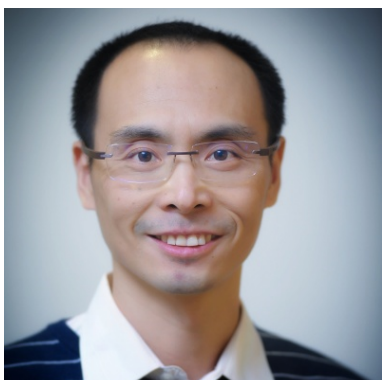
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## How coronavirus is shaping sustainable development

“The world is changed. I feel it in the water. I feel it in the earth. I smell it in the air. Much that once was is lost, for none now live who remember it.” [143]

The rapid spread of the coronavirus that causes COVID-19 has change conference organization. In Ukraine, the Ministry of Healthcare is advising people to prepared for disruptions to daily life that will be necessary if the coronavirus spreads within communities. On March 11, 2020, the Cabinet of Ministers of Ukraine introduced a three-week nationwide quarantine in connection with a pandemic, and all public events in the country have been canceled [144]. Three weeks ago, we still believed that the outbreak impact would not be global [145].

“Conferencing world from the past now seems surreal, like science fiction, though the world around us looks like science fiction too” [146]. As the conference organizers, in the current crisis we had to make a rational decision regarding the paper presentations: a) cancel this year conference and put presentations online; b) postpone the conference to an indefinite time in the vague future; c) change dates to Fall 2020; d) merge conferences of this

and next year; e) allow the mixed participation, both real and virtual.

It seems the last choice is safe and rational, so we decided not to change ICSF dates and give to participants the possibility to make a real presentation using ICT augmentation.

The coronavirus pandemic is now affecting practically every country on the planet. The quarantine restrictions put in place by the governments have a lot of serious socio-economic, technological and environmental effects. Could the coronavirus outbreak be sustainability’s big break?

Peter Bakker, the President of World Business Council for Sustainable Development (WBCSD), emphasis that most governments are now first and foremost focused on slowing down the spreading of the disease and shoring up medical support systems to aid those who fall seriously ill: “For business, it is an equally pivotal moment to deploy all its care, critical know-how, reach and resources. Businesses everywhere are looking after their employees and creating contingency plans to map the risks in their operations” [147]. The WBCSD has started sharing examples of positive business leadership during these challenging times: how business demonstrating their responsibility towards society.

WBCSD has set up a COVID-19 Response Program. WBCSD's call to action to leverage our combined business expertise centered on three areas and focused projects:

- Vital Supply Chains (with a focus on short-term supply chain resilience plan, starting with the food system);
- Return to "Normal" Scenarios (with a focus on employee health and business recovery);
- Long-term Impacts (with a focus on COVID-19 vulnerabilities revealed by the crisis and lessons for future resilience and stakeholder capitalism).

Kevin Moss mentioned that COVID-19 crisis could be a turning point for business: "Right now, businesses are responding to the call to take a socially responsible, purpose-driven and publicly accountable approach to all stakeholders – employees, suppliers and communities – in addition to shareholders. It may seem inappropriate to be thinking of longer-term sustainability in these times of emergency, but the lens through which we are forced to take urgent action right now is the one business leaders can use to ensure the rush to resolve one emergency does not accelerate the onset of another. Let this be the beginning, not the peak, of a corporate transformation journey, so that once society is beyond the immediate threats, we move into a refreshed approach to capitalism" [148].

This crisis offers three opportunities for businesses that want to expand their mandates to lead to a more sustainable future [148]:

1. *Change business models from a linear to a circular economy*: instead of coming out of the crisis by doubling down on pre-crisis consumption patterns and business models, the crisis presents the opportunity to switch from selling more stuff to more people to providing services, reselling previously owned products and creating.

2. *Emphasize the social in the environmental, social and corporate governance*: if ever there was a time for companies to demonstrate their commitment to the health, safety and prosperity of all stakeholders by addressing inequality in the business model, it is now.

3. *Invest in supply chains*: as the Science Based Targets Network notes in its call to action for companies, businesses must prioritize mapping "value chain and assess the risk to freshwater, biodiversity, ecosystems and oceans in major impact locations" [149].

So, COVID-19 has tested the preparedness and resiliency of businesses in terms of their ability to respond to a systemic global shock. Some business responses to the current situation highlight future corporate sustainability opportunities [150].

The UN Secretary-General António Guterres has announced the establishment of the COVID-19 Response and Recovery Fund and launched a report serving as a call to action [151]. Guterres said the recovery from the COVID-19 crisis must "lead to a different economy" – more equal, inclusive and sustainable, to be more resilient to pandemics, climate change, and other global challenges.

The Fund has three aims, with a finance window for each one: stop transmission of the virus, protect the most vulnerable from its socio-economic impacts, and make countries more resilient to future health crises. Window 1,

"Enable governments and communities to tackle the emergency", will support countries to fully implement their National Action Plans for Health Security, helping them close gaps in acquiring essential equipment and supplies, and pay health and social workers.

Window 2, "Reduce social impact and promote economic response", will support immediate social protection measures including cash transfers and food security. It will enable school meal programs and learning to meet children's food and educational needs while boosting digital innovations to support employment, livelihoods, and social services.

Window 3, "Recover better", focuses on national preparedness measures such as maintenance of key services and workforces during crises, and laboratory capacity. This window will also invest in innovative delivery of public services to "achieve sustainable and inclusive economies that leave no-one behind and safeguard country SDG programs from COVID-19-related setbacks".

The UN report on social and economic impacts of the virus outbreak entitled "Shared responsibility, global solidarity: Responding to the socio-economic impacts of COVID-19" [152] is a call to action for the same sets of action prioritized by the Fund. Guterres highlighted the importance of focusing on the people most affected socially and economically by the pandemic: women, older persons, youth, low-wage workers, small and medium enterprises, the informal sector, and vulnerable groups, especially those in humanitarian and conflict settings. He said a multilateral response of about 10% of global GDP will be needed, and that we must prioritize debt alleviation.

Looking longer-term, Guterres said, "when we get past this crisis ... we will face a choice. We can go back to the world as it was before or deal decisively with those issues that make us all unnecessarily vulnerable to crises".

Pointing to the 2030 Agenda and its 17 Sustainable Development Goals (SDGs) as "our roadmap," he said the recovery from the COVID-19 crisis must "lead to a different economy" – more equal, inclusive and sustainable, to be more resilient to pandemics, climate change, and other global challenges.

The COVID-19 Response and Recovery Fund and Call to Action report take a long-term view, stressing that the world must address the issues that "make us all unnecessarily vulnerable to crises", with the 2030 Agenda serving as the roadmap to achieving this (Fig. 3). The Fund seeks to stop transmission of the virus, protect the most vulnerable from its socio-economic impacts, and make countries more resilient to future health crises.

The United Nations commits to working in all countries around the following recommendations [152]:

1. Act decisively and early to prevent the further spread or quickly suppress the transmission of COVID-19 and save lives.
2. Urgently strengthen the resilience of health systems.
3. Provide urgent support to developing countries with weaker health systems.
4. Remove obstacles and allow free and immediate access to research results and ensure that vaccines and

medicines are accessible to all.

5. The United Nations calls on all businesses and corporations to take three primary actions: adhere to health, safety guidelines and provide economic cushions to workers, including through ensuring worker safety and

social distancing and secure wages for those working from home; provide financial and technical support to governments by contributing to the COVID-19 Solidarity Response Fund; repurpose their facilities and business plans to focus on meeting the needs of this crisis.



**Fig. 3.** COVID-19 affecting all 17 SDGs [152, p. 12].



## Conclusion

The vision of the ICSF 2020 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 several countries such as Australia, Azerbaijan, Belarus, Bulgaria, Czechia, Egypt, Estonia, Georgia, Germany, Guinea, Indonesia, India, Israel, Italy, Kazakhstan, Kuwait, Lithuania, Netherlands, Nigeria, Norway, Poland, Romania, Russia, Saudi Arabia, Serbia, Sweden, Turkey, Ukraine, United Kingdom, United States, Uzbekistan, 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. Also, we are also thankful to all the program committee members for providing continuous guidance and efforts taken by peer reviewers contributed to improving 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 EasyChair, 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, and creating the conference proceedings.

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 2021.

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