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15th IRDO International Science and Business Conference  
 SOCIAL RESPONSIBILITY AND CURRENT CHALLENGES 2020:

## Personal and social responsibility for sustainable future

4–5 June 2020

Maribor, Slovenia, European Union

**ONLINE PERFORMANCE**

Organizer:



## CONFERENCE PROGRAM // PROGRAM KONFERENCE

University of Maribor, Slomškov trg 15, SI-2000 Maribor, Slovenia

Co-organizer:



DAY 1: THURSDAY, JUNE 4, 2020			
URA / HOUR	AUTHOR/AVTOR prostor/location	PROGRAM	PROGRAM
17.00 – 17.30	BREAK	ODMOR ZA MREŽENJE	NETWORKING BREAK
17.30 – 18.50	B. SR organizational responsibility and systemic behaviour (IASCYS)		
	Moderators: Prof. Emer., DDr., Matjaž Mulej & Assist. Prof. Dr. Igor Perko		

## DAY 1: THURSDAY, JUNE 4, 2020

URA / HOUR	AUTHOR/AVTOR prostor/location	PROGRAM	PROGRAM
5 min	Prof. Emeritus, DDr., Matjaž Mulej, University of Maribor, Faculty of Economics and Business, and IRDO – Institute for the Development of Social Responsibility, Slovenia, and IASCYS	Uvodni pozdrav v imenu Programskega odbora konference	Welcome speech on behalf of the Conference Program Committee, and IASCYS – International Academy for Systems and Cybernetic Sciences, an international partner of the IRDO & conference
<b>17.00 – 17.30</b>	<b>BREAK</b>	<b>ODMOR ZA MREŽENJE</b>	<b>NETWORKING BREAK</b>
<b>17.30 – 18.50</b>	<b>B. SR organizational responsibility and systemic behaviour (IASCYS)</b>		
	<b>Moderators: Prof. Emer., DDr., Matjaž Mulej &amp; Assist. Prof. Dr. Igor Perko</b>		
15 + 5 min	Prof. Dr. Pierre Bricage, Retired Biology Professor, University of Pau, France	SARS–CoV–2 in COVID–19: Vprašanja o svetovnem etičnem upravljanju za družbeno in okoljsko odgovornost v znanstvenih raziskavah v zdravstvu	SARS–CoV–2 and COVID–19: Questions about a world ethical governance for a societal and environmental responsibility in health science research
15 + 5 min	Assoc. Prof. Dr. Dejan Dragan, University of Maribor, Faculty of Logistics, Department for Quantitative methods in logistics, Prof. Emer. DDr. Matjaž Mulej, University of Maribor, Faculty of Economics and Business and IRDO, Slovenia, Abolfazl Keshavarzsaleh, M.Sc., M.Sc., Ph.D. Student, University of Deakin, Australia	Raziskave pandemije in virusa COVID–19: sistemski pregled metodologij, ki se osredotočajo na celostne rešitve v logistiki in upravljanju dobavne verige	Research on Pandemics and COVID–19 virus: A systemic review of methodologies focusing on holistic solutions in logistics and supply chain management
15 + 5 min	Prof. Dr. Dr. Teodora Ivanuša, DVM, & Prof. Dr. Iztok Podbregar, University of Maribor, Faculty of Organizational Sciences, Kranj, Slovenia, Filipe Duarte, Naval Architect & Marine Engineer BSc, MSc., CEO at	Karantena: od Serenissima Repubblica di Venezia do 21. stoletja	Quarantine: from Serenissima Repubblica di Venezia to the 21 <sup>st</sup> Century
	OPTIMAL DEFENCE, Lisboa e Região, Portugal; Asst. Prof. Dr. Rado Janša, MD, University Medical Centre Ljubljana		
15 + 5 min	Prof. Emeritus, Dr. Jifa Gu, Academy of Mathematics and Systems science, Chinese Academy of Sciences, Beijing, China	Pojasnilo o COVID–19 na Kitajskem po kibernetiki prvega, drugega in tretjega reda in sistemski znanosti	Explanation of COVID–19 in China by first order, second order and third order cybernetics and systems science
	<i>Discussion / Conclusions</i>		
<b>18.50 – 19.00</b>	<b>Conference conclusions – Day 1</b> <b>Moderator: Anita Hrast, MSc.</b>	<b>Sklepi posameznih skupin in zaključek konference za 1. dan</b>	<b>Conclusions and end of the conference, Day 1</b>

Matjaž Mulej

## Welcome Address to the 15th IRDO Conference on Social Responsibility

According to official data quoted in a contribution to this conference about one half of the current global GDP depends on nature, the availability and quality of which depends of sustainability, reaching beyond the concept of sustainable development, even beyond the concept of sustainable future – to cover SUSTAINABLE BEHAVIOR of all of us billions of humans living now.

We humans of today and of the coming generations need to expand the notion of corporate social responsibility to the concept of SOCIETAL SOCIAL RESPONSIBILITY, including both the CORPORATE and INDIVIDUAL responsibility for ones' influences over society, meaning our own COMMON SURVIVAL now and tomorrow, here and elsewhere on this beautiful, but LIMITED PLANET.

Contributions to this conference are making us aware that the global humanity is striving at the SOCIALLY RESPONSIBLE SOCIETY via our most global organization, the UNITED NATIONS and its SUSTAINABLE DEVELOPMENT GOALS. These goals should better be called HUMANKINDS SUSTAINABLE BEHAVIOR GOALS, aimed at humankind's survival.

Too many decisive, not only influential persons and organizations, including MINISTRIES OF ENVIRONMENT AND SPATIAL PLANNING are facing crucial and very demanding dilemmas, such as INVESTMENT that is found necessary for the so called ECONOMIC DEVELOPMENT on one hand, and the growing number of INHABITANTS OF THE PLANET EARTH and their/our need for HEALTHY ROOM TO LIVE, FOOD, WATER AND AIR, on the other hand.

Agricultural land is shrinking to make room for new investment. If nature destroys nature, this is called DISASTER; if humans destroy nature, this is called PROGRESS, DEVELOPMENT. But we humans cannot eat new buildings, larger apartments, capable computers and other tools. Social responsibility does not include WORKFARE REPLACING WELFARE, or the current reduction of HEALTHY AIR to only EIGHT percent of humankind; etc.

SUSTAINABLE DEVELOPMENT concept has not favored health over growth of exploitation of health, neither prevention of the need for medication over development of medical facilities. SURVIVAL OF HUMANKIND DEMANDS SUSTAINABLE BEHAVIOR AND FUTURE.

It the new CORONA VIRUS CRISIS has done anything good in Spring of 2020, it has shown that the ENVIRONMENTAL problems really are MENTAL problems and causes by HUMANS rather by nature outside human influence.

And so on. We, members of the IRDO Institute for the development of social responsibility are glad to see that the SYNERGY OF RESPONSIBILITY FOR INFLUENCES OVER SOCIETY, OF INTERDEPENDENCE AND HOLISTIC/INTEGRAL/COMPREHENSIVE APPROACH can be attained and generate benefit. We are proud to make our contributions, this time by adding finding of fifty authors to the more than one thousand authors speaking and publishing in our fifteen conferences. We should also mention authors publishing in our beyond twenty further books. And hope for more good practices, which are much more numerous than described in public media, because they tend to report more on problems resulting from SOCIAL IRRESPONSIBILITY and needed action to be solved. Humans are by nature causing and solving problems.

But now the only period of several decades of a rapidly growing easy life after millennia of less easy life is running out of resources. SOCIALLY RESPONSIBLE BEHAVIOR MUST REPLACE THE SPOILED BEHAVIOR OF THE 15 PERCENT of humankind EXPERIENCING THE CRISIS OF AFFLUENCE. WELFARE INCLUDES MUCH MORE THAN CONSUMPTION BEYOND REAL NEED. SYSTEMIC BEHAVIOR MUST REPLACE THE ONESIDED ONE FOR HUMANKIND TO SURVIVE. The United Nations' sustainable development goals are very good criteria, once they BEHAVIOR GOALS AND PRACTICES rather than limited to growth beyond natural limit, wrongly called development.

Many cordial thanks for your cooperation, attention to these challenges, worry and action!

## **SARS-CoV-2 and COVID-19: Questions about a world ethical governance for a societal and environmental responsibility in health science research.**

Retired Biology Professor, Pierre Bricage

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### **Abstract**

Why did a new coronavirus, SARS-CoV-2, emerge without anybody being able to identify neither the reservoir nor the vector? Why did it trigger a multi-faced pandemic disease COVID-19? Why does it look like other human infecting viruses? Is this the result of an accidental similarity, an evolutionary convergence or a technological artefact? What is the origin of the virus? Why the released coronavirus couldn't be a HIV candidate vaccine? What technology is needed to built a HIV biomimetic coronavirus? What can we learn from the study of the scientific and social story of the virus and disease? What lesson could we learn?

Keywords: COVID-19, evolution, genetic engineering, HIV, SARS-CoV-2, vaccine.

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## **Research on Pandemics and COVID-19 virus: A systemic review of methodologies focusing on holistic solutions in logistics and supply chain management**

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### **Abstract**

Like the other people, the researchers and pedagogical workers from Universities got paralyzed at the beginning of the COVID-19 outbreak. Lectures had to be provided via modern technologies distantly. The essential scientific organizations have started to call scientists worldwide to immediately re-orientate their efforts to contribute to the COVID-19 research. However, the initial confusion regarding searching for credible data affected humans' judgment and common sense. Also, some chaos was and still is present on how to choose appropriate research approaches and classify them. Another dilemma is how to effectively integrate the COVID 19 dynamics and adequate models with the knowledge of scholars' basic disciplines. This issue is also essential for scientists from the field of logistics, transportation, and supply chain management. Only when the influence of COVID-19 dynamics can be effectively and holistically linked with the dynamics of material flows running via supply chains, adequate predictions can be made and possible scenarios projected into the future.

**Keywords:** COVID 19 virus, Pandemics, Logistics, Transportation, Supply Chain Management, Holistic and Systemic Approach, Social Responsibility.

# Quarantine: from Serenissima Repubblica di Venezia to 21<sup>st</sup> Century

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## Abstract

The practice of Quarantine, as we know it, began during the 14<sup>th</sup> Century to protect coastal cities from plague epidemics. Ships arriving in Venice from infected ports were required to sit at anchor for 40 days before landing. This practice, called Quarantine, was derived from the Italian words *quaranta giorni* which mean 40 days. Venetians adopted and used Cyber-Systemic approach (meaning a requisitely holistic management/influence) several centuries before Aleksander Malinovsky/Bogdanov, Ludwig von Bertalanffy and Norbert Wiener launched their Tektology, General System Theory, and Cybernetics. Based on the research and use of Bogdanov's Essays in Tektology – Crises of Forms (as a methodological foundation), the authors used Bogdanov's consideration of two types of crises: "Freezing" and "Explosive". The "Freezing" brings equilibrium through their resolution, and the "Explosives" destroy systems. Using the study of Tektology, one can not only study the crisis

but also predict its occurrence. Some classes are collapsing, while the remaining ones are more viable. Such interpretation – using Bogdanov’s Tektology – of Crisis management/tackling Pandemics is unique, revolutionary/controversial in some selected viewpoint, and beyond the state of art.

1. Keywords: Quarantine, *SARS-CoV-2*, Tektology, Crisis management, Cyber-Systemic approach/behavior



## **Explanation of COVID-19 in China by first order, second order and third order cybernetics and systems science**

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### **Abstract:**

The idea and thinking with the first order, second order and third order cybernetics and systems science have developed recently in Europe and USA, but in China they are known just by a few people. Author tries to introduce them to our Chinese colleagues. Since the end of December, 2019, in Wuhan we found the COVID-19 started to spread very quickly. From viewpoint of systems science, this virus looks just like an ill-defined system. Then author found that in China many facts, measures taken could not be explained by previous system thinking, but when we tried to use the idea and thinking of first order, second order and third order cybernetics and systems science, it seems natural and understandable. Then author tries to find the facts, information and many phenomena that happened in Wuhan; most aspects in reality can be explained.

**Keywords:** first order; second order; third order cybernetics; system science; COVID-19; Wuhan, China

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**Institute for Management and International Studies, Philadelphia,  
The Lauder Institute, The University of Pennsylvania, USA  
Think Tanks and Civil Societies Program**

June 30, 2020

***"Corporate leaders and organizations that support scientific research have for years said that the world needs more cross-disciplinary communication. As it happens people and organizations in the fields of systems science and cybernetics have been developing transdisciplinary (more general) theories and methods since soon after World War II. Quite a few societies and journals have been created, their conferences meet regularly, and they are easily found on the internet. All that is missing is attention to them and participation in their work."***

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