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“THE CLIMATE CHANGE SYSTEM 2017”



For this scientific digital booklet Prof Dr John Avery prepare “Introduction”.

Zg. Medosi, Korte, Slovenia, EU, April 2017



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By

Prof Dr, Dr h c Timi Ecimovic, et al.



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Acknowledgment:

*To my family, to Ansted University family, to World Philosophical Forum –
WPF family, to GHA family and to global community of humankind!
To friends and colleagues: thank you for your selfless friendship and support.
To readers: thank you for your concern and interest.
To all humans: do not give up!*

Zg. Medosi, Korte, Slovenia, EU, April, 2017



Preamble

This booklet has the form of presentation and doesn't follow the usual books form.

The Climate Change System as a term describes the philosophical truth of this natural system. The present practice discussing the climate changes without understanding systemic background of Nature and climate change is in many respects misguiding the humans. The climate change happenings are due to ceaseless work of the climate change system. No understanding of the systemic operation means misunderstanding of the present climate change happenings.

The lack of knowledge and understanding of the present, of the Biosphere of the planet Earth and the Universe, leads to misunderstanding of the happenings due to heritage of the past upbringing and education by the countless educational systems (religious, private and beyond 200 national) worldwide.

The secondly, the explosive reproduction of Homo sapiens species 3.5 times more in the last Century, did not allow population management and improvement of the upbringing and education of humans.

The result at the present is a catastrophically poor understanding of all important contents needed for better tomorrow of humankind.

The global community of humankind needs: The new Philosophy; The new Universal Upbringing, Education and Lifelong Learning; The new global population management and the new Global Governing; etc.

About this write the most troubled system thinkers, like Nobel Laureate Prof. John Avery:

- “We need system change, not climate change!
- We need a new economic system, a new society, a new social contract, a new way of life.

Here are the great tasks that history has given to our generation: We must achieve a steady-state economic system.

- We must restore democracy.



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- We must decrease economic inequality.
 - We must break the power of corporate greed.
 - We must leave fossil fuels in the ground.
 - We must stabilize and ultimately reduce the global population. **We must eliminate the institution of war.**
 - And finally, we must develop a more mature ethical system to match our new technology.”[1]

We need a critical renewal of the present and introduction of the truth, respect, knowledge, understanding, reason, global governing, justice, human rights and duties, morality, wisdom and sustainable future, which is: “The Sustainable Future of Humankind is a Harmonious and Complementary Coexistence of the Global Community of Humankind and the nature of the planet Earth”.

Prof Dr, Dr h c Timi Ecimovic

John Avery
Nobel Peace Laureate, shared, 1995
Introduction

The integrated climate booklet offered to the attention of readers concerns one of the most important and acutest global problems of humankind. The booklet gives a good general and concise vision of this problem. But as a physicist and chemist I want to single out, focus on, and emphasize its key natural essence. It consists in the following:

- The melting of Arctic sea ice is taking place far more rapidly than was predicted by reports of the Intergovernmental Panel on Climate Change (IPCC). David Wasdell, Director of the Apollo-Gaia Project, points out that the observed melting has been so rapid that within less than five years, the Arctic will be free of sea ice at the end of each summer. It will, of course continue to refreeze during the winters, but the thickness and extent of the winter ice will diminish,



- It has also been observed that both the Greenland ice cap and the Antarctic ice shelves are melting much more rapidly than was predicted by the IPCC. Complete melting of both the Greenland ice cap and the Antarctic sea ice would raise ocean levels by 14 meters. It is hard to predict how fast this will take place, but certainly within 1-3 centuries,
- Most worrying, however, is the threat that without an all-out effort by both developed and developing nations to immediately curb the release of greenhouse gases, climate change will reach a tipping point where feedback loops will have taken over, and where it will then be beyond the power of human action to prevent exponentially accelerating warming,
- By far the most dangerous of these feedback loops involves methane hydrates or clathrates. When organic matter is carried into the oceans by rivers, it decays to form methane. The methane then combines with water to form hydrate crystals, which are stable at the temperatures and pressures which currently exist on ocean floors. However, if the temperature rises, the crystals become unstable, and methane gas bubbles up to the surface. Methane is a greenhouse gas which is much more potent than CO₂,
- The worrying thing about the methane hydrate deposits on ocean floors is the enormous amount of carbon involved: roughly 10,000 gigatons. To put this huge amount into perspective, we can remember that the total amount of carbon in world CO₂ emissions since 1751 has only been 337 gigatons,
- A runaway, exponentially increasing feedback loop involving methane hydrates could lead to one of the great geological extinction events that have periodically wiped out most of the animals and plants then living. This must be avoided at all costs,



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- Solar power and wind energy are already much cheaper than fossil fuels if the enormous subsidies given to fossil fuel corporations are discounted. The main thing that the world needs to do is to abolish these subsidies, or, better yet, shift them to the support of renewable energy infrastructure. If this is done, then economic forces alone will produce the rapid transition to renewable energy which we so urgently need to save the planet,
 - Oil Change International, an organization devoted to exposing the true costs of fossil fuels, states that “Internationally governments provide at least \$775 billion to \$1 trillion annually in subsidies, not including other costs of fossil fuels related to climate change, environmental impacts, military conflicts and spending, and health impacts,
 - The worst consequences of runaway climate change will not occur within our own lifetimes. However, we have a duty to all future human generations, and to plants and animals with which we share our existence, to give them a future world in which they can survive,
 - Of course, it goes without saying, as Naomi Klein, I and others have stressed repeatedly: We need system change, not climatic change! One key deep societal change needed is a transition to a harmonious society, which is able to overcome the selfishness, fragmentation and local limitations of the nation-states. Today, absolutely sovereign nation-states have become a dangerous anachronism because they cannot rise to the level of global problems. Only a deeply changed global structure of the human population that constitutes the social genome of mankind is capable of uniting nation-states and raising them to the level of solving global problems and preventing their risks. Fundamental changes are needed in four spheres of social activity: Economics; International Law; Global Governance, and Ethics.

This is a very important theme, which we develop in our booklet.



The Abstract

“The Climate Change System 2017” is a digital booklet that presents the most contemporary requisitely holistic description and understanding of the climate change system of Nature¹ in general. Particularly, here I/we² are presenting the climate change system of the Biosphere of the planet Earth on two interrelated levels:

1. Natural, Biosphere, in which global human society is presented as Nooshere - a reasonable part of the biosphere respectively to Teilhard de Chardin and Vernadsky, and
2. Social, global community of humanity in its deep societal structure of SPHERONS – global harmonious classes of the population employed in four constant spheres of social production [2; 3].

This contemporary report or presentation is somehow summary of all my/our scientific and applied research, previous books (1989 – 2017), presentations, discussions, talks and other communication connected with the past and present understanding of the CLIMATE CHANGE within the global community of humankind.

It is important to present the **climate change system** in common words for people to understand it.

It is even more important for understanding of the impact of the climate change on the living condition within the biosphere of the living-beings environment of the planet Earth at present and how their pernicious consequences can be prevented by the global community.

¹ Nature it is a term describing Nature in general or the universal and requisitely holistic nature as a whole and its requisitely holistic units: Galaxies, Star Systems, The Planetary systems and the star Sun the requisitely holistic star system with its the requisitely holistic planetary system including the planet Earth as a requisitely holistic system with its requisitely holistic the climate change system within requisitely holistic the biosphere system.

² I/we et al are: (By ABC names) Prof Dr Alexander Chumakov, Russia; Prof Dr Alexander Makarenko, Ukraine; Dr Ang Ban Siong, Malaysia; Prof Dr Dana M. Barry, USA; Prof Dr Fidel Gutierrez Vivanco, Peru; Prof Dr Glen T Martin, USA; Prof Dr Igor Kondrashin, Russia and Greece; Prof Dr Dr habil. Jörn Hamann, Germany; Prof Dr Leo Semashko, Russia; Prof Emeritus Dr Dr Matjaz Mulej, Slovenia; Prof Dr Negoslav Ostojic, Serbia; Prof Emeritus Dr Raoul Weiler, Belgium; Hon Ricaardoe Di Done, Canada; Sir Prof Dr Roger B Haw, Malaysia and China; Prof Dr Shahid Siddiqi, Canada and USA; Prof Emeritus Dr Sait Kacapor, Bosnia and Herzegovina; Prof Dr Seminur Topal, Turkey; Tanja Balazic Pecek, Slovenia, Prof Dr Timi Ecimovic, Slovenia, Prof Dr Truly Busch, Germany and many more not mentioned in this list. Some of great contributors to our work have been as follows: Late Prof Dr Avgustin Lah, Slovenia; Late Prof Dr Elmar Stuhler, Germany; Late Prof Dr George Pethes, Hungary; Late Prof Dr Helmut Metzner, Germany; Late Prof Dr Rashmi Mayur, USA and India; Late Hon Dr T P Amerasinghe, Sri Lanka. Thank you.



The Key words

Biosphere; climate; global governing; global community of humankind; deep societal structure; Spherons; Individual and social responsibility; Nature and the nature of the planet Earth; pollution; population management; philosophy; protection of humankind, Nature, space and environment; requisitely holism; Requisitely Holistic System – RHS; sustainability/sustainable future; the climate change; the climate change system; universe/cosmos; universal upbringing, education and lifelong learning;

The Discussion

The climate change system is one of internal systems of the biosphere's and of the nature of the planet Earth. It is responsible for biosphere environmental qualities and conditions for the life to continue.

The countless number of other celestial bodies has the Climate Change Systems - CCS as a part of their biosphere.

All CCS are interconnected, interdependent, interacting, cooperating, having synergies, networking, etc. with internal and external systemic operations of the system under observation and according to Nature's protocols.

The climate change system - CCS is **provider, maker, holder and guardian** of the living conditions within the biosphere of the planet Earth. With ceaseless systemic operations of CCS internal and external systems CCS allows the present to be as it is.

The climate change systems - CCS as reality is present all over Nature and the Universe. Together with the evolution, evolvments and other contents of Nature's systemic operations or protocols they are a part of the **continuum**.

The climate change system is placed within the requisitely holistic planet Earth system and the planet Earth Biosphere system, from the surface of the planet and the air environment.

The bordering sub-systems: The air and terrestrial surface; the air and water environments; the terrestrial and the water environments, are the biologically richest sub systems.



As a part of the requisitely holistic planet Earth system, the climate change system and systemic operations are influenced by planetary systemic operations: gravitation, magnetism, and the circular top-like movements, orbital movement, the air movements, and the geography of the terrestrial surface.

The requisitely holistic star Sun systemic operations: the flow of warmth, light, magnetic waves, gravitational waves and other Nature protocols from Intergalactic, Galactic and the star Sun systemic ceaseless operations, are as the external systems.

Within the requisitely holistic planet Earth systems: the life of the planet as a whole and as the present life within the biosphere, the climate change system and biosphere, are dynamic factors for the evolution and evolvments of the life forms (including the Homo sapiens civilization), and the resulting environmental conditions.

All those are interconnected, interdependent, interacting, cooperating, forming synergies, anti-synergies, networking etc. as unified planetary system.

The primordial Earth, some 4.5 billion years ago, was lifeless and unrecognizable by our present civilization standards.

The air was oxygen-free and many subsystems of the climate change system known today did not exist.

The climate change system itself was evolving according to the components and relations of the system operations as it does even today.

The “living nature”³ is moderator of living conditions and is interconnected, interdependent, interacting, cooperating, and having synergies, anti-synergies and networking, etc., with the climate change system and other requisite holistic planet Earth system and ceaseless systemic operations.

The past and present changes within the living conditions in the biosphere are performing the life operations according to present status of the biosphere.

The rise of the life on the Earth reacted to conditions of the primordial surface water environment, and its physical and other contents.

³ The »living nature« term is conditionally used because the present humankind uses terms living and other nature according to the old understanding of life.



It took the nature, evolution and evolvments of the planet Earth some 0.4 - 0.7⁴ billion years to evolve the life.

The first evidence of the life is dated now to 4.1 billion years ago.

From protozoan life of primordial time to evolution and evolvments of the complex biosphere took around 3.3 billion years till 1.2 billion years ago.

It was the time, within which the biosphere evolved living conditions for complex living creatures.

The first complex living creatures on the terrestrial environment could be placed around 700 million years ago.

The first and the second biosphere's life-forms, the protozoan energy's transition from the anaerobic to the aerobic energy production was responsible for the change of the atmosphere from the oxygen-free to the oxygen-rich one.

The oxygen-content was around 40 % and over the time it has been diminishing to 21% as it was at the end of the 19th century.

The oxygen-content in the air was the major improvement of life conditions, which made the difference from the primordial time to the time of biosphere, from 1.2 billion years ago until the present time.

The concentration of the oxygen in the air for living creatures to breathe should not fall below 8 % that is somehow a minimum needed for survival.

At present in some heavily populated areas of big cities, the concentration of the oxygen could fall just beyond 10 %. I/we are recommending monitoring of oxygen concentration as a precondition for survival of humans in the fragile and heavily polluted environments (big/mega/poly cities).

Our civilization's first settlements were built some 14000 years ago, because of social life evolution and evolvments of pre-antiquity humans.

First settlements on European soil were built on swampy areas, for security reason, and population was up to 10.000 people.

⁴ The new contemporary research is placing the living creatures appearance as early as 4.1 billion years ago.



It was a result of the changed conditions within the biosphere that happened after the last ice period, which ended some 60.000 – 16.000 years ago.

Since then the climate change system conditions on the Earth were almost at the quality level of the present time. Of course, changes have existed but not as extreme ones, as the ones coming up now.

The difference between today and 200 years ago is due to the extreme input of our civilization's output into biosphere, such as: all sorts of waste, side-effects of nuclear technologies, the combustion engine, the agriculture, the habitation, the communication etc. technologies, synthetic chemicals, human population explosion and its consequences; poor knowledge and understanding of the present and destruction of biosphere resulted from covering the current needs of humans.

The climate change system is a natural complex entity/requisitely holistic system - RHS.

It consists of several subsystems and is a subsystem, too, of systems such as the Biosphere and planet Earth system, the Solar system, the Milky Way and the Universe/Cosmos/Nature systems.

It is very old and has been changing all the time, offering rather stable conditions to the life forms.

At present much more extreme changes are taking place, over the centuries of industrialization including the fourth industrialization of the present time than ever before since the end of the last ice age.

We humans are not the only cause of these dangerous processes, although an essential one, especially if our decisions and actions are based on a lack of knowledge, understanding of the present, systemic/holistic thinking/behavior and Eco bio centric philosophy.

The climate change system as an integral part of the planet Earth biosphere system is somehow between its inferior and superior systems; all of them together with the climate change system itself have a number of mutual interconnectedness, interdependences, interactions, co-operations, synergies, anti-synergies, networking etc.



As I/we have mentioned before, the Universe/Cosmos/Nature contains all matter and energy, information, dimensions, powers, forces, lights, rays, atoms, particles and yet unknown contents.

The Universe may have a dramatic influence on the Earth's climate change system, in the case of catastrophic changes affecting the Solar system, and in the case of the planet Earth's collisions with space body/bodies influencing the Earth's systemic operations.

It happened and may/can happen again. There is e.g. the hypothesis that a collision of the Earth with a cosmic meteorite some 65 million years ago caused large extinctions of the living beings including the Dinosaurs.

The largest and most superior system of the Nature is the Universe.

The probability of a destructive interaction of the Earth with the Universe system is very small.

It is so because of vastness and countless number of celestial bodies: galaxies, stars, planets systems and other forms of mater, energy and information within the Universe.

The Earth has a little chance to experience major destruction caused by the Universe system's activities.

The Earth system is namely just a very small part of it.

The Solar system is a very large system, from our civilization's point of view, but a very small one from the galactic point of view, and even much smaller from the Universe's point of view.

The Sun and its eight planets make one small sub-system of the Milky Way Galaxy. Actually, the Milky Way Galaxy has almost countless star systems beyond 200 billion and our Solar system is just one of them.

The Sun is the central star of the Solar System, and has 99.8 percent of the Solar system's matter. It is the center of its system, and source of all energy, matter, power, and information within it. Of course, it is system inferior to the Milky Way Galaxy, which is over 100.000 billion times bigger in mass as the Solar system.



The Solar system revolves around the center of the Milky Way Galaxy at a speed of around 250 kilometers per second.

For our Earth planetary system the Sun is the source of everything from birth of the planet onward, and we exist because the Sun provides us energy, warmth, light, and all other important inputs – physical and other components and interconnected, interdependent, interacting, cooperating, synergies, networking etc. of the matter, energy and information.

Our planet system is completely dependent on the star Sun system. Our present time experience is mirroring physical, chemical, geographical, and biological etc. statuses at which the planet Earth system is at this very moment.

Of course, the influence from the Solar system is not caused only by the Sun, but also by a number of interconnected, interdependent, interacting, cooperating, relations, synergies, networking and etc., with neighboring planets, planet-like bodies of different size, Moon and other forms of energy, matter, information, and natural powers. The planet Venus is the closest to Sun, and the outer planet is Mars. Together with Mercury, they present terrestrial planets of the Solar system.

The other four planets Jupiter, Saturn, Uranus, and Neptune are gaseous gigantic planets on the outer part of our Solar system. The last planet (not any more a planet but an asteroid) is Pluto, but it is not always the last one, because of its oval-shaped orbit, which places it sometimes before Neptune, but most of the time it is the most distant one from the Sun. Recently two new celestial bodies have been discovered in line from the Sun and after Neptune/Pluto.

The Solar system is stable, and changes in its system qualities are reflected within its entire system.

The most important parts of the Solar system are the energy flows from the Sun to the planets, and the quality of each planetary system. Not only each planet's composition, but also its orbit and distance from the Sun are deciding factor for the quality of the flow from the Solar system. The life stream of light and warmth from the Sun enables life on the planet Earth.

Both quality of the star Sun system and the Earth's orbit, composition and distance from Sun compose the interconnected, interdependent, interacting, cooperating, networking etc. parts of the life-support system on the Earth.



Understanding of many powers and forces of nature is important. They include gravitational, magnetic, energy, matter, information, transformations, rays, and particles etc., dynamics/movements (like the top, orbital, galactic, and of the Universe), the Solar system, the Sun and planets including our planet Earth. Synergistically, they are making systemic characteristics, interconnectedness, interdependences, interactions, cooperation's, networking and synergies etc. of the whole system under observation.

The Solar system as well as all other systems is functioning according to their given systems⁵/entities of systemic operations/protocols parameters.

Our civilization has its chance to research and understand the Nature and our existence.

The open question is whether global community of humankind interferes with operations of the climate change system and the nature or not.

The answer is **yes. Our present life style is not in harmony with the nature systemic operational practices and protocols.**

In many fields of activities, we are endangering our existence with opening the possibility of a planetary catastrophe.

The nuclear technologies are the most dangerous activity. I/we think: “The nuclear research should not come out of research laboratory doors”.

It is the number one possibility for global community of humankind and the planet Earth to experience its disappearance.

My/our recent philosophical essay on STSR groups⁶ includes the statement as follows:

“Since 1960 when nuclear weapons reached enough capacity to destroy biosphere and even the whole planet Earth, strength of the nuclear weapons was increasing and increasing.

⁵ We say »system« rather than »set«, because in the systems theory a system consists of two sets, mathematically: the set of its elements and the set of relations between them (and with its environment) resulting in synergetic attributes that the entire system has, but its elements alone do not. Hence, speaking of a set would mean the traditional oversight of relations and their crucial importance. . A case of a system as a synergy: water is a synergy of two gases, not liquids; edible salt is synergy of two poisons; etc. attributes change by synergy.

⁶ Please see STSR group's Philosophical presentation, January 2017.



The nuclear power facilities after more than 11.000 reactor years of the operating experiences, experiences of accidents with reactor operations, safety operations etc. indicate a great danger to the planet Earth.

In the case of not well organized global community of humankind, the global crisis of humankind and resulting accidents plus with mismanagement of the nuclear power stations could be a source of final destruction of the planet due to catastrophic happenings of nuclear reactors explosions.

The nuclear technologies are a great danger for humankind and even for the planet Earth”.

The impact of the climate change system **is the number two**. On several occasions I/we stated the following; **“The climate change system’s impact on the biosphere could change geography, biology, and chemistry so much that our planet Earth will not be recognizable for the present humankind”.**

The climate change system did it in the past and caused extinction of many species and practically changed the living nature in the biosphere of the planet Earth.

The explosive reproduction of humankind **is the third most dangerous activity**.

Intensification of the climate change system’s impact is result of high increase of the global community of humankind pollution due to energy consummation, transport activities, urban life, the communication means, a total consummation and consequent pollution of basic environments – land, water and air.

Humanity’s present pollution and resource depletion of biosphere could be described as: “Today humanity’s overall pollution and resources depletion of the nature of the planet Earth is higher than yesterday and growing for the last hundred years”.

Synthetic chemical compounds - SCC, particles research, Nano technologies, genetic manipulations etc., in practical use could be the next in line. SCC is a most dangerous because the short and long-term effects on the nature are completely unknown.



The systemic operations of the nature and the climate change system of the planet Earth are mirroring the system operations of the Nature in general or the Universe/Cosmos. With knowledge on the system operations on the Earth humanity is accumulating knowledge on the system operation in Universe.

It is like “One in all and all in One”, which was always as application to humankind and I/we trust, it is the same with nature (the swarm research).

System operations are result of many different happenings in different requisitely holistic environments.

Again in my/our research the operations are result of **interconnectedness, interdependence, interaction, co-operation, synergies, anti-synergies, networking, swarm research, etc.**, of all matter, energy, information, light, rays, powers, forces, particles, dimensions and yet unknown contents of the Nature and let us see what they are:

- **Interconnectedness** – link between numerous subjects, contents etc., to form a pattern of the whole. It is the principle for connecting whatsoever.
- The systemic meaning is to link/connect two or more systems to one larger system. For instance – The Universe is interconnectedness of countless larger and smaller systems linked or unified into one.
- **Interdependence**⁷ - dependence on each other or one another; mutual dependence – the nature and the universe system are interdependent or mutually dependent; the universe system and Milky Way Galaxy are interdependent; the star Sun system and Milky Way Galaxy are interdependent; star Sun system and planet Earth are interdependent, living nature and three basic environments on the Earth – land, air and water – are interdependent; human body and mind are interdependent; in my/our opinion, everything is interdependent.
- **Interaction** – action on each other; reciprocal action or effect – in the nature everything is reciprocal and affects the environment, life and other nature, the universe system, etc. Within the requisitely holistic unit, everything is in interaction and the system as a whole interacts with major system within which they are placed.

⁷ From Webster 1986 / meaning.



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- **Co-operation** - the act of co-operating; joint effort or operation; Ecology is an interaction between organisms that is largely beneficial to all those participating – in the nature co-operation is integral part of a complex relationship or integral part of system operations. According to my/our research co-operation is closely connected with information, as described in the information theory of Nature.
 - **Synergies and anti-synergies** - are included to add for richness of the system working operations.
 - **New sciences of networking** – allow for understanding of ceaseless action, movement works and operations of Nature evolution.
 - **Swarm research** - is a very useful tool for research of countless members and actions of Nature.

The nature is always in - “*present*”, *now* and *here*.

The present understanding of Nature has been evolving on as long as the present Homo sapiens civilization has been a part of the biosphere. I/we think it is the time for a step forward, and understanding of the nature will follow.

The differentiation of the nature to the living nature and other parts, conditionally described as non-living nature, are heritage of the humankind’s thinking pattern, **and need to be revised in the future.**

The evolution was introduced to humankind in the XIX Century by Charles Robert Darwin (1809 – 1882), a British scientist.

Even today due to lingual, cultural, children upbringing, humankind educational and religious reasons evolution has not been accepted by majority of people.

It is due to manipulation of few on account of all others. The philosophy of life is in very short sentence: “All living beings are successful”.

In my/our research, the evolution is universal principle, main power, pillar and leader of Nature operations. Evolution and evolvments is Nature’s power allowing for continuum of Nature.



The **evolution** is a ceaseless working system making evolvments for better tomorrow of Nature and the nature of the requisitely holistic unit under observation.

The evolution with evolvments is the only system of the nature of the planet Earth responsible for the needed adjustments within the continuum of the planet Earth existence.

The evolution uses interconnectedness, interdependences, interaction, cooperation, synergies, networking etc., of the existing contents on the planet Earth to make possible the continuum/existence of the planet.

The evolution is provider, maker, holder and guardian, **allowing harmony of all contents in the biosphere environments.**

The evolution and evolvments is one of pillars of Nature.

Proper observations, thinking and researching of the evolution and evolvments on the requisitely holistic planet Earth could open new horizons for survival, prosperity and longevity of people and discoveries of the universal knowledge.

There is the same evolution and evolvments in the nature of the planet Earth as in the Universe.

Many more philosophical discussions could follow the stream of information in this booklet, but I/we presented them in our digital book “The Nature 2017” and you are welcome to see it at: www.institut-climatechange.si under; the small digital Library.

The present generations of human should work on the universal upbringing, education and lifelong learning of coming generations.

It is the only way to serve the coming generations with ability to learn and understand: life, evolution, evolvments and other knowledge needed for longevity and survival of all of the people of the nature of the planet Earth.

The sustainable future or the sustainability of humankind or harmony of our civilization with the nature of the planet Earth is an option for humankind to survive the approaching impact of the climate change system on the biosphere of the planet Earth.



To be ready for changes, and mitigations due to the climate change system impact, all of us single representatives of humankind must learn more about the basics of the biosphere and Nature.

We need a society wide global approach, and not the dilution of scarce financial means, for *it is impossible to buy the survival of humankind with a financial approach whatever size*.⁸ We people are a part of biosphere, the nature of the planet Earth, although this has been admitted less over the last three centuries than ever before.

The climate change system would ultimately change living conditions within the biosphere and geography of the Earth so much that our civilization will cease to exist.

The Conclusions and the Recommendations are as stated in ‘The Nature 2017’ digital book and are suitable for ending of this booklet on the climate change system philosophical, research/scientific outlook, and are as follows:

One planet, one humankind civilization and one government are my/our first recommendation.

The second recommendation is a new approach⁹ to the social order:

- Which has to reflect the past and the present experience,
- Which has to establish a *new contract for humankind* living on the planet Earth,
- With the goal to prevent explosion of humankind reproduction,
- To enforce ethics and respect amongst peoples of the Earth,
- To enforces (a globally holistic!) law and order, and
- To allow, with skillful governing, the coming generations to live and have sustainable future¹⁰ on the planet Earth.

The third recommendation is *redirections of scientific and research activities*:

- ***To stop the work*** for innovations of war armaments techniques and technologies for killing and mass destruction of humans,
- ***To stop the narrowly market and money-oriented synthetic chemicals technologies,***

⁸ As introduced in 2006 by John Bunzl, from London, UK.

⁹ As introduced good 20 year ago by Prof Emeritus Dr Slavko Kulic, Zagreb, Croatia.

¹⁰ The sustainable future or the sustainability is harmony of humankind and the Nature/Biosphere of planet Earth.



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- **To stop the narrowly market and money-oriented energy technologies,**
 - **To stop the narrowly market and money-oriented genetic manipulation techniques,**
 - **To stop the narrowly market and money oriented societal management,**
 - **To rethink money monster - the master practices and leadership,**
 - **The discovering of viable systems of the requisitely holistic nature of the planet Earth,**
 - **The research for the protection of people, nature, space and environment of the planet Earth aimed to stop destruction of them by humankind,**
 - **The research of the Universe or Cosmos, as essential knowledge needed for survival and sustainable future of global community of humankind or harmony of our civilization with the nature of the planet Earth.**
 - **The rebirth of “Individual Social Responsibility“ of humans,**
 - **The Sustainable Future or Sustainability of the Global Community of Humankind,**
 - **The Universal Upbringing, Education and Lifelong Learning of humans.**
 - **The evolution and evolvment of the humans needed for the sustainability.**

The necessary wide, system and holistic global approach to society to fulfill these recommendations gives multidimensional pluralistic social philosophy and global sociology of Tetrism, Terasociology and Harmonism [4; 5; 6]. (This section up to below was written together with Dr. Leo Semashko)

The Global Community of Humankind under the present leadership of “The Money Monster Master” is looking like been on the suicidal path.

Humans need knowledge and understanding of Social Nature “in self” as the noumenon, according to Kant, to reach next step in evolution of the mind and governance and to meet challenges of the coming times.

Social sciences are far behind the natural, technical and military sciences, because they seek not the truth but the ideological justification of domination and violence of the most powerful classes and empires to which these sciences serve. Therefore, social sciences are mainly responsible for the present weak position of the humankind in the knowledge and understanding of its deep, "societal" nature according to Parsons.



Only the SPHERONS' theory, which was developed for more than 40 years ago, reveals the objective truth of the deep structure of societal nature and looks like a light at the end of the long dark tunnel.

The SPHERONS' theory generalizes the historical experience of cognition of social structure from ancient times, beginning with the caste stratification of Vedic India, the class differentiation of Plato's ideal state, Marx's class structure and ending with modern theories of stratification. The social structure question, according to Montesquieu, has decisive importance for the organization and political governance of society. But the scientific knowledge of this structure is still very far from objective truth in view of its ideological limitation.

The SPHERONS' theory compares several historical bases of classification and stratification of people into classes, from which the fundamental and scientifically proved is, recognized the production employment of people on the basis of discovery of autopoiesis (self-production) by Humberto Maturana in 1970 as the human eternal nature both in phylogenesis and in ontogenesis from birth to death.

The biological discovery of autopoiesis was introduced into sociology by Nicolas Luhmann and became practically universally recognized in the social sciences now.

Therefore this premise of SPHERON's argumentation is the most fundamental in their theory.

It does not cause fundamental scientific objections and meets scientific requirements.

All other grounds for differentiating people (property, power, soul qualities and etc.) in the SPHERONS' theory are recognized as private forms of employment that serve as the basis for different, historically transitory private social structures and private classes named in it PARTONS: slaves and slaveholders, peasants and feudal lords, workers and bourgeois, lower-middle-upper classes, and so on.

Another premise of the SPHERON's argumentation concerns the structuring of the production employment of people and any society up to humanity as a whole.



The overwhelming in history was sector/branch division of people into private, historically transitory classes, PARTONS: peasants, artisans, traders, warriors, managers, etc., by their employment in the most developed in society private, historically transitory branches.

The first division of social production according to four universal constant functions (production-distribution-exchange-consumption) was proposed by A. Smith, which was developed and supplemented by its division into four universal constant spheres (types/forms of production) by K. Marx in 1845 in the first chapter of "*German Ideology*."

Marx could not draw a conclusion about the four classes of people employed in these spheres for only one, but the determining reason: his materialistic or economic monism, from which he cannot refuse in his political, proletarian and appropriate ideological bias and focus.

The materialism of Marx demanded to recognize the economic sphere as the "basis" of society and all other spheres - the secondary "superstructure." Accordingly, the main productive classes were recognized only those employed in material production.

These classes were differed by ownership to the means of production: the bourgeoisie and the proletariat. All other groups of people were declared secondary strata, etc. In the theory of SPHERONS, a powerful scientific toolkit to identify spheres, sphere classes (SPHERONS), their statistics, development, etc. has been established.

The fundamental difference between the theory of SPHERONS and the Marxist theory of classes is that it rejects the materialism of Marx as well as any monism, takes the position of tetra (four-dimensional) pluralism, from the standpoint of which the four spheres of production are considered **equally necessary and sufficient** for the life of society.

They are systemic and deprived of the monistic relationship of kinship: primordially-secondary, because they are equally necessary for society, because the absence of at least one of them deprives others of life and society becomes impossible.

This scientific theoretical proof finds confirmation in the whole human history, in which no one, nowhere and never, has observed a society devoid of at least one of the four spheres of its production.



Therefore, and the other premise of SPHERON's argumentation in their theory is also scientific and meeting the scientific requirements, which is confirmed by statistical, empirical evidence of Russian SPHERONS and other institutions in the second chapter of *Global Peace Science*[5].

It is also confirmed by the wide use and development of the paradigm of four spheres of social production in different versions in the works of many social scientists after Smith and Marx: Vilfredo Pareto, Max Weber, Robert Park, Florian Znaniecki, Talcott Parsons, Fernand Braudel, Alvin Toffler, Pierre Bourdieu and many others.

Of all scientific paradigms of the structure of social production, this is the most widely recognized; it is used in programs and calculations of almost all countries, national governments and in international institutions but in different modifications.

However, this paradigm has not yet become universally accepted. Together with it, in the social sciences, other variants of the social production structure are used, albeit rarely and sporadically, which reduce it to either three or five or more spheres. But none of them has received such wide recognition, evidence and application, as a tetrad/fourfold paradigm.

In any case, while the possibility of other multidimensional models of the sphere structure of social production exists purely theoretically, until then there is an a priori assumption of other social structures than the four-dimensional one adopted in the SPHERONS' theory.

In these cases, in the future, it is possible to recognize not four, but three or five, etc. of SPHERONS'. But in any case, the notion of the eternal societal global structure of society at all levels will remain. This is, from our point of view, the main scientific achievement and discovery of the SPHERONS' theory.

Its development in the tetrad version will reveal its advantages and preferences in comparison with its other possible versions.

As any scientific theory, in view of the infinite scientific knowledge of its object, it cannot be recognized as an eternal indisputable scientific truth, so the SPHERONS' theory cannot be it and it does not pretend to it, calling for its confirmation, addition and development by the new scientists and new scientific institutions.



The SPHERONS' theory as a global societal structure has key importance in cognition and solution of the global ecological problem, in the preservation of humankind as Noosphere, consciously harmoniously interconnecting, interdepending and interacting with the biosphere and the entire environment, with all nature as a whole.

The SPHERONS' theory makes it possible to understand humanity as a single whole social organism, regardless of its transitory private classes of PARTONS and private autonomous states predatory exploiting nature in their selfish national or corporate interests, without caring for the preservation of the planet Earth.

The private structures and institutions are irresponsible to nature - this is proven by past centuries of experience, which threatens the survival of entire ecosystem of the planet Earth. Only a global and harmonious societal structure of SPHERONS can be a single and solid foundation to govern environmental risks and solving a corresponding challenge on a global scale.

I/we hope and I/we are recommending the global project for survival and longevity of humankind to be undertaken by best of the best humans. I/we think present proposal for the SPHERONS' theory and the protection of Humankind, Noosphere, Nature, Space and Environment along with other achievements could allow survival and longevity of humankind on the road to the sustainable future or the sustainability of humankind, which in short definition is:

- Environmental stability of the biosphere or the preservation of Noosphere and global peace of humanity in biosphere are two sides of the same coin for the harmonious survival of the planet Earth and of living beings on it, above all the human.
- The Universal Upbringing, Education and Lifelong Learning in SPHERONS Science.
- The Individual Responsibility within SPHERONS Social Responsibility,
- The new SPHERONS harmonious life Philosophy,
- To establish new SPHERONS Harmony of people with Biosphere,
- To stop pollution of the all three environments, terrestrial, aquatic and air basic environments,
- To reestablish scientific and research goals to SPHERONS,
- To establish new SPHERONS Global Governing of humans,



- To establish new transcendent from the sustainable development towards the sustainable future or sustainability of SPHERONS, which is in the short definition as follow;

“The Sustainable Future of Humankind is a Harmonious and Complementary Coexistence of the Global Community in its four SPHERONS and the requisitely holistic Biosphere of the Earth nature”[7].

Ending this booklet I/we wish to all humankind survival, longevity and prosperity!

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