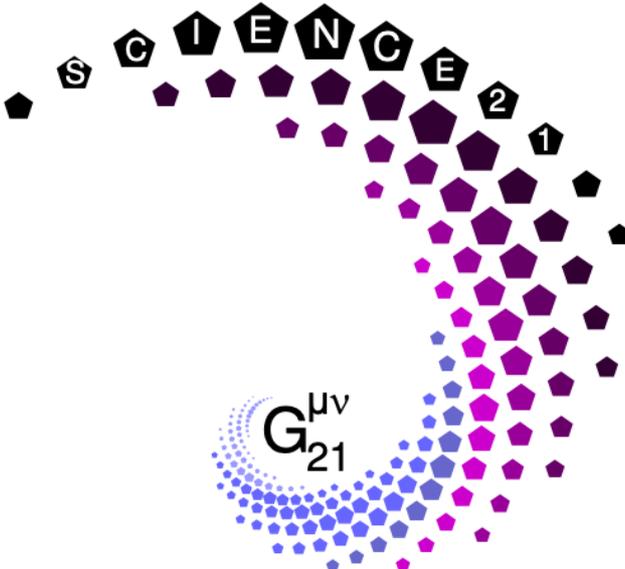


SCIENCE 21 FOUNDATION Annual Report year

2019



"There is always a solution"

FOREWORD

Human civilization stands today at the crossroads of history. In 2020, we can directly observe evolutionary to revolutionary leap in our collective existence, which we call Social Singularity 21, SoS21. According to our view, SoS21 will culminate with tremendous acceleration in the 21st century, when humanity must defend its existence in a fundamental historical test as probably the only alternative to the otherwise inevitable global destruction.

Because the goal of evolution is not balance. If that were the case, we would have an ideal population and live in the middle of beautiful nature in perfect balance with other species. The goal of evolution is to select from an infinite variety of life forms such a biological entity that can create a unique collective consciousness composed of absolutely free individuals who, all to the last one, will behave like best friends. Then and only then can we, as a species, generate such a degree of cooperation that we will be able to resist and survive the real problems of humanity, which are mostly beyond the borders of our planet and most of them even beyond the borders of our solar system. And sooner or later their time will come. Today's civilization has almost all the prerequisites to pass this test. We have resources, education, technology, healthcare and a social network. We can fly into space, breathe underwater, split atoms, recombine DNA, and above all, we have a global communication system. The last missing stone into this mosaic is to put the brain into use. Simply, start thinking for real. If we understand the mechanism by which human beings think, we can identify and eliminate the source codes of all misunderstandings, problems, and conflicts, and embark on the world's greatest adventure up to the stars.

And so the Foundation's primary task is to join the expansion of the message Planet Earth SoS and to by our activity and energy maximally contribute and maximize the probability of a successful SoS 21 outcome.

MISSION OF SCIENCE 21 FOUNDATION.

- The purpose of Science 21 Foundation is both publicly beneficial and charitable. The purpose of Science 21 Foundation is fundamental and applied research in the natural sciences with a focus on physics.
- Fundamental research in the field of human physical and mental potential by special movement schemes, including free fall.

- Association and support of exceptional personalities from the ranks of scientists, educators, inventors, artists, athletes and others, regardless of age, social situation and education, and their further development.
- Active search and association of talented people of all ages, including so-called hidden talents, and providing them with support needed for their further development, including financial support, and especially by creating conditions for studying at various types of schools and educational institutions with simultaneous development of their physical and mental activity, support of individuals and groups of people and of their motivation for personal development, teamwork and universal interdisciplinary cooperation.

ACTIVITIES OF SCIENCE 21 FOUNDATION

In 2019, Science 21 Foundation successfully continued to develop a new form of educational process aimed at specific scientists and researchers. The application of our unique method of measuring and calibrating collective neural performance by free fall, piloting, reflex cultivation, balance, gymnastics and others, in conjunction with multidisciplinary synthesis, is beginning to yield very interesting results, from which we expect, during the year 2020/2021, publication outputs with a reasonably high impact factor. In addition to this fundamental research, the Foundation focused mainly on the presentation of research results at several international conferences and other activities described below.

1. DONORS

The main supporter of Science 21 Foundation continues to be visionary Karel Janeček, who, as in previous years, personally participates in a number of key researches and who donated CZK 7,561,950 to the foundation. Other funds that the foundation needed for its activities were financed from the sale of land owned by the foundation. One of the donors was the company PROKAT Invest s.r.o. with its registered office at Břetislavova 85 in Domažlice, in the amount of CZK 20,000

2. DONEES

In 2019, the following were endowed:

1. PARAKLUB OLYMP PRAHA in the amount of CZK 2,637,226
2. Mr. Evgeny Podkletnov in the amount of CZK 14,797
3. Mr. Petr Martínek in the amount of CZK 40,497
4. Mr. Daniel Kortus in the amount of CZK 80,497
5. Mr. Alexander Carrot in the amount of CZK 87,122
6. Mr. Jan Rak in the amount of CZK 216,631
7. Mr. Paul A. LaViolette in the amount of CZK 91,763
8. Mrs. Šárka Dominiová in the amount of CZK 37,000

9. Mr. George Wild in the amount of CZK 175,000
10. Mr. Tomáš Benka in the amount of CZK 317,000
11. Mr. Stephan Lars Drescher in the amount of CZK 560,000
12. Mr. Simone Bartoli in the amount of 69,443 CZK

Additional funds were used for direct research, international conferences and the reconstruction of the foundation's headquarters, where now can be found functional halls, such as a gym, a children's physics laboratory and a physics laboratory for the individual experiments listed below, a music room, offices and accommodation for foreign guests.

3. PHYSICAL RESEARCH PROJECTS

- Experimental research into sensorimotor potential and educational processes takes place not only at the headquarters of Science 21 Foundation, but also at a number of other cooperating sites. Some physical experiments in a more advanced stage of solution are found in professional laboratories of academic and industrial environments. In 2020, we expect results to be published in peer-reviewed journals.
- In 2019, Science 21 Foundation organized a major conference **Physic Beyond Relativity** (<https://science21.cz/conference/>) This conference had a large international participation of a number of experts from various fields of physics and provoked a very useful discussion of ideas that go beyond the currently accepted relativistic view of physics. Its topics were as follows:

- **Gravity research**

Experimental research, which attempts to detect a dynamic gravitational component using vertical pendulums. In this research, the Foundation cooperates, among others, with prof. Andre Koch Torres Assis, author of Relational Mechanics and Implementation of Mach's Principle with Weber's Gravitational Force. In 2020, we prepare a modification for this experiment, which could increase the sensitivity of the measurement many times over.

- **Measurement of relative time dilation for positive and negative muons in a circular orbit**

Reference Measurements of Relativistic Time Dilatation for Positive and Negative Muons in Circular Orbit, Nature, vol. 268, pp. 301-305, 1977, describes clear evidence for the effect of time dilation. However, the experimentally measured value of time dilation does not depend on the acceleration (of the order of 10^{15} g), unlike GR and the traditional explanation of the Twin paradox.

- **Research in the field of quantum and nuclear physics**

A research project in the field of quantum and nuclear physics focuses on the study of different types of radiation produced by a spark discharge in different types of gaseous media.

In 2019, a physical experiment was successfully set up to study high-voltage discharges (10 - 20 kV) in order to confirm Small Hydrogen Atom hypothesis (A new way to explain the 511 KeV signal from the center of the Galaxy and its possible consequences. ArXiv: 1304.0833v3, 9 Jun 2013). Confirmation of this hypothesis is not only important for cosmological models, but also considerable technological potential. A semiconductor silicon pixel detector is used to detect radiation and identify particles and measure their energies. Related publications, for example Nuclear Instruments and Methods in Physics Research A145 (1998) 405-419.

- **Research in the field of high voltage electromagnetic waves**

In this project, we study fluctuations caused by the propagation of electromagnetic waves excited by a high-voltage source of 500 kV. In collaboration with the Faculty of Electrical Engineering of CTU, we designed a powerful Cockcroft-Walton generator enabling to generate 500 kV Coulomb waves with less than a nanosecond leading edge with a frequency of 1 KHz. In 2019, we managed to successfully put into operation and experimentally test a high-voltage generator and a nanosecond signal modulator up to a voltage of 160 kV. In the next phase of research, in 2020, we are preparing a technologically demanding complexly measuring set containing laser interferometers and high-frequency oscillators with a requirement for resistance to high voltages up to 500 kV.

4. PHILOSOPHY RESEARCH

By applying multidisciplinary synthesis within the dynamic paradigm, in 2018 we postulated a hypothesis providing a solution to the world's oldest paradox about the undecidability of the primacy of the existence of a chicken or an egg. The result is, from today's point of view a seemingly trivial reasoning, which says that chickens, according to the new systematics belonging to theropod dinosaurs, are clearly their evolutionary successor. And because the dinosaurs, like their predecessors, with no doubt laid eggs, the eggs must have been in the world hundreds of millions of years before the first chicken could even begin to think of laying anything. Through a broad consensus discussion in 2019, we concluded that the cause and persistence of this paradox is a fact that information about the existence of dinosaurs and their reproduction is dramatically delayed in the chronology of the origin of this paradox. Like the theory of evolution itself. Thus *The chicken or egg paradox* clearly was undecidable at the time. And when the theory of evolution was discovered, the philosophical significance of the chicken and egg paradox and the degree of its persistence over time were so great that it was no longer applied, due to inertia, to this problem, which by itself appears to be another and even greater paradox. By solving this fundamental philosophical problem and especially by explaining its origin, we consider this question to be definitively clarified. Further research in this area will therefore address, by methods of multidisciplinary synthesis, the question of the existence of other trivially solvable, but for similar reasons still unresolved problems.

5. RESEARCH AND DEVELOPMENT OF STUDENTS' EDUCATIONAL PROGRAMS

In 2019, the educational programs were gradually improved with more detailed curricula and divided into various modules. In each module, students take theoretical and practical exams. During the preparatory phases, students regularly attend seminars where theoretical information is presented and discussed. The basic communication and project platform "NextCloud" was developed and launched, where it is possible to create other projects of Science 21 Foundation and further develop them. Within the practical part of the training, students, together with scientists and other collaborating entities, regularly participate in parachute training with all other methods, such as flying on a Boeing 737 simulator. Students regularly report their individual experiences and thus contribute to basic research.

6. RESEARCH AND DEVELOPMENT OF EDUCATIONAL PROGRAMS FOR CHILDREN

In 2019, methods of 8 areas of potential development, active identification of blockages and strengthening the awareness of one's own body were implemented into the educational program for children. At the same time, the program "KidZ Days" was launched, where children practice gymnastics, trampoline, climbing, drawing and music in a controlled environment. Within this project, children work on building teamwork and a dynamic hierarchy. The children visited London at the beginning of the year, where they learned interesting facts about English culture and improved their English language skills.

CONCLUSION

During 2019, significant progress was made in neural performance research, in the development of pedagogical methods and in the establishment of new contacts in many fields at the international level. Multidisciplinary synthesis and methodology for neural performance identification were presented at various conferences. The physical experiments were presented at the conference in October 2019. Simultaneously, many lectures and workshops took place. Based on the above mentioned, we rate 2019 as very successful.