

The Department of Philosophy, the Institute of Applied Physics and Mathematics and the Institute of Mathematics and Quantitative Methods of the University of Pardubice have the pleasure of inviting you to a one-day cross-disciplinary conference.

**Friday, 2 August 2019**

## **Humanity in the Era of Specialized Knowledge and Science**

Since the end of 19th century, we have witnessed the immense success of the natural sciences, hand in hand with the enormous development of technology. Together, these have given rise to the fundamental civilizing transformation of the world around us, and of our attitude towards it. However, the unchallengeable fruitfulness of science and technology has also begun to reveal its dark side.

In spite of various reservations about specialized knowledge and scientific or technological advances, rigorously and critically founded natural sciences and humanities provide us with forceful instruments for the well-founded explanation and description of numberless phenomena.

### **Aims of the conference:**

To address cross-disciplinary scientists who are erudite in both the natural sciences and the arts, and who can step out from behind the methodology or philosophy of science in the 20th century and target a range of subsequent problems:

- The scope and limits of scientific disciplines in offering comprehensive descriptions of, or knowledge about, nature and life.
- The scope and limits of professionals educated in the natural sciences and the arts in their research and understanding of phenomena.
- The scope and limits of traditional claims to universal knowledge and their relation to the whole within specialized education at universities.
- The scope and limits of historical-philosophical reflections in scientific training and research.

### **The conference will be open to:**

Students, professionals and the interested public. Simultaneous recordings of the conference will be made available on YouTube.

**Organizers from the University of Pardubice:**

Patrik Čermák, MSc: Institute of Applied Physics and Mathematics, Faculty of Chemical Technology

Libor Koudela, MSc, PhD: Institute of Mathematics and Quantitative Methods, Faculty of Economics and Administration

Filip Grygar, MSc, PhD: Department of Philosophy, Faculty of Arts and Philosophy

**Place:** University of Pardubice, Lecture room EB in the new Polabiny Areal

**Date:** Friday, 2 August 2019

**Invited guests:**

**Hasok Chang** studied Theoretical Physics and Philosophy and is the Hans Rausing Professor in the Department of History and Philosophy of Science at the University of Cambridge. He was the laureate of the Lakatos Award in Philosophy of Science (2006), and won the Fernando Gil International Prize in the Philosophy of Science (2013) for his book *Is Water H<sub>2</sub>O? Evidence, Realism and Pluralism*.

**Ladislav Kvasz** studied Theory of Systems and Philosophy at Comenius University in Bratislava and is Professor of Didactics of Mathematics, Associate Professor of Philosophy, and Doctor of Science (DSc). He works at Charles University in Prague and the Institute of Philosophy of the Academy of Sciences of the Czech Republic. He was the laureate of the Fernando Gil International Prize in the Philosophy of Science (2010) for his book *Patterns of Change: Linguistic Innovations in the Development of Classical Mathematics*.

**Morning programme:** *Two plenary lectures (2 x 45 minutes)*

9.30–9.40 am: *Opening* (Chairman Patrik Čermák)

9.45–10.30 am: *Hasok Chang*

10.35–11.20 am: *Ladislav Kvasz*

11.20–11.55 am: *Discussion and coffee break*

**Afternoon programme: *Three contributions* (3 x 20 minutes)**

12.00–12.05 pm: *Opening* (Chairman Libor Koudela)

12.10–12.30 pm: Anton Markoš

10 minutes discussion

12.45–13.05 pm: Lukáš Zámečník

10 minutes discussion

13.20–13.40 pm: Michal Černý

10 minutes discussion

13.55 pm: *Closing ceremony* (Filip Grygar)