

# COE-SEMINAR

(in English)



## The Emergence of New Concepts in Science

**Dr. Zbigniew Król**

*Tacit knowledge, intuition, intuitive heritage* are very broad concepts and sometimes too vague to provide for any practical applications (as a bird in the hand is worth two in the bush). Only some of the many possible intuitive factors in science are chosen. Indo-European mythology belongs to the heritage of humanity, but has nothing to do with the mathematical creation of set theory.

It is possible and reasonable to reconstruct *what* is assumed intuitively i.e. as a tacit or a hidden assumption in the informal background always present during scientific creation. Let us call this reconstruction the *reconstruction of the hermeneutical horizon*.

The reconstruction of the hermeneutical horizon is possible e.g. for different mathematical theories in the same historical epoch and in different epochs.

This seminar will discuss the following questions:

- How to find out what is intuitive in the case of scientific change?
- Can intuition vary in time?
- What are intuitive conditions for the emergence of new concepts in science?
- Is it possible to study intuition in depth?

**Title:** *The Emergence of New Concepts in Science*

**Main Speaker:** Dr. Zbigniew Król, Institute of Philosophy and Sociology of the Polish Academy of Sciences

**Date and Time:** Nov. 28 (Tue.), 14:00 – 16:00

**Place:** Seminar Room K-84a (KS 3<sup>rd</sup> Building, 8FL)

