



LEIBNIZ INSTITUTE
For Interdisciplinary Studies e.V.
(LIFIS)

^{21st} LEIBNIZ-CONFERENCE
OF ADVANCED SCIENCE

Developments of the Theory of Inventive Problem Solving (TRIZ)

Beginning of an Extended Systematization

24 – 25 November 2016, Lichtenwalde (Saxonia)

Program

October 12, 2016

Thursday, 24th of November 2016

10:30 am – 10:45 am: **Opening**

- Prof. Dr. Frieder Sieber (President of the LIFIS)

10:45 am – 11:45 am: **TRIZ-Experiences (1)**

- *Dipl.-Ing. Horst Thomas Nähler (c4pi – Center for Product-Innovation, Hünfeld): More than just a Tool-Kit – How TRIZ Changes the View on Product Development*
- *Reinhard Schmid (Volkswagen AG): Strategic Development with the Help of a TRIZ-based Procedural Model*

11:45 am – 12:15 pm: **Break**

12:15 pm – 01:45 pm: **TRIZ-Experiences (2)**

- *Dipl.-Kulturwiss. Barbara Gronauer (StrategieInnovation, Hünfeld): Dynamization of Organizations through the TRIZ' Way of Thinking*
- *Prof. Dr.-Ing. i.R. Hans-Jochen Günther (Rostock): TRIZ and Bionics*
- *Prof. Dr. Kai Hiltmann (University of Applied Sciences, Coburg): Standardization of TRIZ and the VDI-Guidelines*

01:45 pm – 02:30 pm: **Lunch**

02:30 pm – 04:00 pm: **Inventor Schools of the Chamber of Technology and their Impact on TRIZ**

- *Dr.-Ing. Michael Herrlich (Erfinder-Akademie, Leipzig): The History of the Inventor Schools from their First Origins to their Continued Existence in the “Erfinder-Akademie”*
- *Dr.-Ing. Bernd Thomas (Association of Brandenburgian Engineers and Economists): Inventor Schools; Then and Now*
- *Dr. phil. habil. Rainer Thiel (LIFIS, Bugk bei Storkow): Novelty and Need; Contradictions and their Solutions*

04:00 pm – 04:30 pm: **Break**

04:30 pm – 06:00 pm: **TRIZ in Education**

- *Prof. Dr. Kai Hiltmann (Coburg): WOIS, QFD and TRIZ*
- *Dipl. Ing. Olaf Weber (LIFIS, Initiator „Next Generation Education”, Berlin): TRIZ for Transdisciplinary Competency*
- *Dr. Klaus Stanke (Creativity trainer and former professor on methodology, Kleinröhrsdorf): Innovation with Contradiction Resolution = Realized Problem Solving Creativity*

06:30 pm: **LIFIS-Event in the Leibniz-Year 2016**

- *Presentation „Leibniz as Inventor“ (Working Title) by Associate Professor Dr. Hartmut Hecht (Leibniz Sozietät der Wissenschaften, e.V.)*

08:00 pm: **Conference Dinner**

Freitag, 25. November 2016

09:00 am – 10:30 am: **Roots of TRIZ in the History of Ideas**

- *M.A. Justus Schollmeyer (Philosophy, LIFIS Berlin): On TRIZ and Its Background in the History of Philosophy: TRIZ as a Version of Pragmatically Idealistic Dialectics*
- *Prof. Dr. Claudia Mareis (FHNW Basel, Institute for Experimental Cultures of Design and Media): Rationalization of Creative-Intellectual Work as a Precursor of TRIZ*
- *Discussion*

10:30 am – 11:00 am: **Break**

11:00 am – 12:30 pm: **Societal Potentials of TRIZ**

- *Dr. Axel Popp (LIFIS, Potsdam): Social Innovations – Methodical Extensions of the Fields of Contradiction in ProHEAL*
- *Prof. Dietrich Balzer (Leibnizsozietät der Wissenschaften zu Berlin e.V., LIFIS): On the Relation between Cybernetics, Artificial Intelligence and TRIZ*
- *Dipl.-Ing. Horst Nähler (Hünfeld): Developmental Laws and Trends of Artificial Systems*

12:30 pm – 01:30 pm: **Lunch**

01:30 pm – 03:00 pm: **TRIZ Today**

- *Dr. habil. Dietmar Zobel (LIFIS, Engineering Office for Systems Technology, Wittenberg): TRIZ from the Point of View of Active Inventor and Industrial Chemist interested in Methods of Invention*
- *Prof. Dr. Kai Hiltmann (Coburg): Techoptimizer, Goldfire, Patentinspiration, Innovation Workbench and Directed EvolutionZ*
- *Discussion, with a brief input by Dr. phil. habil. Rainer Thiel (LIFIS, Bugk bei Storkow): Consequences for Recognizing Needs and Solving Matured Contradictions*

03:00 pm – 03:30 pm: **Break**

03:30 pm – 05:00 pm: **Conclusion Panel – Perspectives of TRIZ**

- *Moderated by Prof. Dr. Bernd Junghans (Vice President of the LIFIS, Dresden)*
- *How can and should TRIZ be developed further? How can and should we contribute?*