



Leopoldina
Nationale Akademie
der Wissenschaften

Leopoldina Symposium

Brain Power for Sustainable Development

The Cognitive Preconditions for a Successful Sustainability Transition

13 June 2018

Conference Center at the Federal Press Conference
Schiffbauerdamm 40, 10117 Berlin

– Preliminary Program –

- 09:30 – 09:40 **Welcome and Opening Address**
Prof. Dr. Jörg Hacker ML, President of the Leopoldina
- 09:40 – 09:55 **Opening Remarks**
Federal Foreign Office (tbc)
- 09:55 – 10:10 **The Global Sustainable Development Report 2019 and the Independent Group of Scientists**
Prof. Dr. Peter Messerli, Professor of Sustainable Development at the University of Bern and Co-Chair of the Independent Group of Scientists
- 10:10 – 10:30 **Brain Power: An Introduction**
Prof. Dr. Wolfgang Lutz ML, Director of the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU) and Member of the Independent Group of Scientists
- 10:30 – 10:45 Coffee and Tea Break
- 10:45 – 12:15 **Session I: Learning, Cognitive Processes and Behavior**
Chair: Prof. Dr. Wolfgang Lutz ML, Director of the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU) and Member of the Independent Group of Scientists
- Development of Brain Structures and Functions: Predispositions, Plasticities, Environmental Challenges, and Critical Periods**
Prof. Dr. Frank Rösler ML, Senior Professor for Biological Psychology and Neuropsychology at the University of Hamburg and Member of the Leopoldina Presidium



Cognitive Development and Behavior

Prof. Dr. Sabina Pauen, Professor for Developmental Psychology and Biological Psychology, University of Heidelberg

Adaptive Rationality and Decision Making

Prof. Dr. Ralph Hertwig ML, Director at the Max Planck Institute for Human Development, Berlin

Discussion

12:15 – 13:30 Lunch Break

13:30 – 14:45 **Session II: Brain Power and Its Effects on Health, Poverty and Economic Growth**

Chair: Prof. Dr. Regina T. Riphahn ML, Professor of Empirical Economics at FAU – University Erlangen-Nuremberg and Vice President of the Leopoldina

Education, World Health, and Brain Power

Prof. Dr. David P. Baker, Professor of Education and Sociology, Pennsylvania State University

Global Education Expansion and Poverty Reduction

Prof. Dr. Jesus Crespo Cuaresma, Professor of Economics at the Vienna University of Economics and Business

Cognition and Different Degrees of Rationality: The Experimental Economics Perspective

Prof. Dr. Jean-Robert Tyran, Director of the Vienna Centre for Experimental Economics and Professor at the University of Vienna

Discussion

14:45 – 15:00 Coffee and Tea Break

15:00 – 16:15 **Session III: Brain Power and Environment**

Chair: Prof. Dr. Frank Rösler ML, Senior Professor for Biological Psychology and Neuropsychology at the University of Hamburg and Member of the Leopoldina Presidium

How the Education Goal Relates to the Other Sustainable Development Goals

Dr. Bilal Barakat, Global Education Monitoring Report (GEMR) – UNESCO

Environmental Sociology and Vulnerability

Dr. Raya Muttarak, Associate Professor in Geography and International Development at the School of International Development, University of East Anglia



How to Study the Cognitive Preconditions of “Green Behavior”

Dr. Mathias Pessiglione, Principal Investigator, Brain & Spine Institute (ICM), Paris

Discussion

16:15 – 16:30 Coffee and Tea Break

16:30 – 16:35	Welcome to the Federal Minister of Education and Research Prof. Dr. Jörg Hacker ML, President of the Leopoldina
16:35 – 17:00	Keynote Address Anja Karliczek, Federal Minister of Education and Research (tbc)
17:00 – 17:50	Panel Discussion: Brain Power – A New Approach to Sustainable Development <u>Chair:</u> Dr. Reiner Klingholz, Director of the Berlin Institute for Population and Development Prof. Dr. Peter Messerli, Professor of Sustainable Development at the University of Bern and Co-Chair of the Independent Group of Scientists Prof. Dr. Wolfgang Lutz ML, Director of the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU) and Member of the Independent Group of Scientists Prof. Dr. Frank Rösler ML, Senior Professor for Biological Psychology and Neuropsychology at the University of Hamburg and Member of the Leopoldina Presidium Members of the Independent Group of Scientists
17:50 – 18:00	Summary and Farewell Prof. Dr. Jörg Hacker ML, President of the Leopoldina

ML = Member of the Leopoldina



Annex: Members of the Independent Group of Scientists

Wolfgang Lutz (Austria), Founding Director of the Wittgenstein Centre for Demography and Global Human Capital, Program Director of the World Population Program at the International Institute for Applied Systems Analysis and Director of the Vienna Institute of Demography of the Austrian Academy of Sciences.

Jean-Pascal van Ypersele (Belgium), Co-Director of the Interdisciplinary Master Programme in Science and Management of the Environment, Université catholique de Louvain, Louvain-la-Neuve, Belgium.

Parfait Ekoundou-Enyegue (Cameroon), Professor and Department Chair of Development Sociology, Cornell University, New York.

Katherine Richardson (Denmark), Professor of Biological Oceanography, Leader of the Sustainability Science Center at the University of Copenhagen, and leader of the macroecology and oceanography theme at the Center for Macroecology, Evolution and Climate.

Eeva Furman (Finland), Director of the Environmental Policy Centre at the Finnish Environment Institute SYKE and Chair of the Finnish National Expert Panel on Sustainable Development.

Jean-Paul Moatti (France), Chairman of the Board and Chief Executive Officer of the French Research Institute for Development (IRD).

Ernest Foli (Ghana), Principal Research Scientist at the Council for Scientific and Industrial Research Forestry Research Institute of Ghana.

Endah Murniningtyas (Indonesia), former Deputy Minister for National Resources and Environment at the Ministry of National Development Planning/National Development Planning Agency of Indonesia.

David Smith (Jamaica), Coordinator of the Institute for Sustainable Development at the University of the West Indies, Coordinator of the University Consortium for Small Island States and the Caribbean Chair for the Sustainable Development Solutions Network.

Muhammad Saidam (Jordan), Director of the Environment Monitoring and Research Central Unit in the Royal Scientific Society in Jordan.

Jurgis Staniskis (Lithuania), full member of the Lithuanian Academy of Science, Professor at Kaunas University of Technology, and Director of the Institute of Environmental Engineering.

Gonzalo Hernández Licóna (Mexico), Executive Secretary of the National Council for the Evaluation of Social Development Policy.

Eun Mee Kim (Republic of Korea), Professor and Dean at the Graduate School of International Studies and the Director of the Institute for Development and Human Security at Ewha Womans University in Seoul, Republic of Korea.

Peter Messerli (Switzerland), Director and Professor for Sustainable Development, Centre for Development and Environment, Institute of Geography, University of Bern, and Co-chair of Future Earth's Global Land Programme.

Amanda Glassman (United States), Chief Operating Officer and senior fellow at the Center for Global Development, Washington, D.C.