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NOVEMBER 28-29, 2012

**ALREADY BEYOND?
40 YEARS 'LIMITS
TO GROWTH'**

HERRENHAUSEN SYMPOSIUM

DEAR PARTICIPANTS!

Welcome to the first Herrenhausen Symposium 'Already Beyond? 40 Years *Limits to Growth*'! We will take a close look at the consequences of one of the most influential books of the 20th century – and the consequences of a research project funded by the Volkswagen Foundation: A team of scientists at the Massachusetts Institute of Technology in Cambridge, U.S., fed their computers with huge amounts of data on past performances of the world. In turn, these machines calculated figures on population growth, raw material reserves as well as food and industrial production until the year 2100. *The Limits to Growth*, published in 1972, caught the spirit of a whole generation: For the first time a scientific study confirmed the growing feeling that 'it can't go on like this'. The book became a milestone of the environmental movement and was considered a nuisance by many economists who at that time barely knew how to spell the word ecology.

What about today and the future? Was the shock that *The Limits to Growth* caused not strong enough? How can we create more responsibility? What are the most urgent tasks for government, academia, and industry? At this Herrenhausen Symposium we want to discuss the current state of affairs but above all the way ahead, the challenges that society, research, and mankind have to meet.

I strongly encourage you to bring your ideas forward and to participate actively in the debates. Thank you very much for coming to Hanover.

Wilhelm Krull

Secretary General, Volkswagen Foundation

NOVEMBER 28-29, 2012

ALREADY BEYOND? 40 YEARS 'LIMITS TO GROWTH'

HERRENHAUSEN SYMPOSIUM

HERRENHAUSEN GALLERY, HANOVER, GERMANY

PROGRAM

WEDNESDAY **NOVEMBER 28, 2012**

- 9:00 A.M.** OPENING ADDRESSES
Wilhelm Krull, Secretary General, Volkswagen Foundation
David McAllister, Prime Minister, State of Lower Saxony
Stephan Weil, Mayor, City of Hanover
- 9:20 A.M.** FEELING A BIT UNEASY? – LIMITS TO GROWTH AND 21ST CENTURY POLICIES, ATTITUDES, AND LIFESTYLE
CHAIR **Martin Meister**, GEO International
KEYNOTE **Dennis L. Meadows**, Laboratory of Interactive Learning, New Hampshire, USA
DISCUSSANT **Harald Welzer**, Foundation FUTURZWEI, Germany
- 10:30 A.M.** COFFEE BREAK
- 11:00 A.M.** WHERE SHALL THEY ALL GO? – DEMOGRAPHIC CHALLENGES AND LIMITED SPACE
CHAIR **Roland Rau**, University of Rostock, Germany
KEYNOTE **David Lam**, University of Michigan, USA
DISCUSSANTS **Tyler J. Frazier**, University of Berlin (TU), Germany
Junior Researcher from Winter School
- 12:30 P.M.** LUNCH BREAK

All academic titles have been omitted.

- 2:00 P.M.** GROWTH WITH LESS? – THE LIMITS OF ECONOMIC GROWTH
CHAIR **Rüdiger Pethig**, University of Siegen, Germany
KEYNOTE **Sir Partha Sarathi Dasgupta**, University of Cambridge, UK
DISCUSSANT **Sanghamitra Bandyopadhyay**, Queen Mary,
University of London, UK
Junior Researcher from Winter School
- 3:30 P.M.** COFFEE BREAK
- 4:00 P.M.** CAN WE REMAIN IGNORANT? – CLIMATE CHANGE AND ITS IMPACT
ON GLOBAL GOVERNANCE
CHAIR **Helga Nowotny**, European Research Council, Vienna, Austria
KEYNOTE **Dirk Messner**, German Development Institute, Bonn, Germany
DISCUSSANTS **Felix Ekardt**, Research Unit Sustainability and Climate Policy,
Leipzig, Germany
Junior Researcher from Winter School
- 5:30 P.M.** SNACK BREAK
- 7:00 P.M.** WHAT'S NEXT? – IMPACT OF LIMITS TO GROWTH ON POLICY-MAKING
CHAIR **Wilhelm Krull**
Dennis L. Meadows
Max Schön, German Branch Club of Rome
Uwe Schneidewind, Wuppertal Institute for Climate, Environment, and Energy
- 8:30 P.M.** GET TOGETHER

THURSDAY NOVEMBER 29, 2012

- 9:00 A.M.** WHAT SHALL WE EAT? WHAT SHALL WE DRINK? – GLOBAL FOOD AND
WATER MANAGEMENT
CHAIR **Junior Researcher from Winter School**
KEYNOTE **Matin Qaim**, University of Göttingen, Germany
DISCUSSANT **Zbigniew W. Kundzewicz**, Polish Academy of Sciences, Poland
- 10:30 A.M.** COFFEE BREAK
- 11:00 A.M.** WHAT HAPPENS IF FOSSILE ENERGIES ARE DEPLETED? – FINITE
RESOURCES AND RENEWABLE ENERGIES
CHAIR **Stefan Bringezu**, Wuppertal Institute for Climate, Environment,
and Energy
Mark Jaccard, Simon Fraser University, Vancouver, Canada
Wikus van Niekerk, Stellenbosch University, South Africa
Sibylle Günter, Max-Planck-Institute for Plasmaphysics, Germany
Junior Researcher from Winter School
- 12:30 P.M.** LUNCH BREAK
- 1:30 P.M.** SAVED BY SOCIETY? – LIFE IN THE ANTHROPOCENE
CHAIR **Daniel Alexander Schacht**, Hannoversche Allgemeine Zeitung, Germany
KEYNOTE **Dipesh Chakrabarty**, University of Chicago, USA
DISCUSSANTS **Dennis L. Meadows**, **Harald Welzer**
- 3:00 P.M.** CLOSING REMARKS
Wilhelm Krull
- 3:15 P.M.** END OF CONFERENCE

PARTICIPANTS OF THE WINTER SCHOOL

Nafiu Abdu / Rhuks Ako / Linda Bergset / Joana Bezerra / Ihtiyor Bobojonov / Vag-Lan Borges / Nuray Cakirli Akyüz / Daniel Callo-Concha / Rodrigo Castro / Georgina Cundill Romina Drees / Nicolas Escalante / Hans Haake / Andreas Havemann / Bernd Hezel Stefan Hotes / Lawrence Ibeh / Joni Jupesta / Aziz Karimov / Jan Köbbing / Tonni Kurniawan / Jean-Sébastien Landry / Armin Leopold / Guilin Liu / Luis Lopes Guerreiro André Månsson / César Marques da Silva / Lavinia Mawlong / Jeremy Moorhouse Dongyan Mu / Kola Liadi Mudashiru / Paul Mukwaya / Diego Ignacio Murguía / Patience Mutopo / Liudmila Nazarkina / Philip Nuss / Meghan O'Brien / Lydia Olaka / Liam Phelan Felix Pütter / Roger Daniel Randrianiaina / Florian Rauser / André Reichel / Naomie Sakane Matthias Schmelzer / Anne Schmidt / Gregor Schwerhoff / Sandra Schwindenhammer Verena Seufert / Wei Shen / Liang Shi / Axel Siegemund / Tenekwetché Sop / Nato Tephnadze Frank Tietze / Iskander Tlili / Xiaoxi Wang / Sylvia Yazid / Andrea Young

WINTER SCHOOL 'LIMITS TO GROWTH REVISITED'

The term 'sustainability' is closely related to a book published 40 years ago, in 1972 - *The Limits to Growth*. Using computer models in an attempt to quantify various aspects of the future and by the effect it had when published, *Limits to Growth* has shaped new modes of thinking. In order to give fresh impetus to the debate, the Volkswagen Foundation has invited 60 researchers from 29 different countries to a one week Winter School in Visselhoevede, Lower Saxony. 'Limits to Growth Revisited' is directed specifically at highly talented young scholars from all related disciplines. The Volkswagen Foundation intends to grant this selected group of academics the opportunity to break new ground and to support them in creating networks with scholars from other research communities, to foster new thinking, fresh approaches, the creation of different models, and the quest for future problems in all areas related to the *Limits to Growth* study at the crossroads of natural and social sciences.

During the Symposium 'Already Beyond? – 40 Years Limits to Growth', fellows of the Winter School will be presenting their ideas as panel discussants, as chairs of a session or during Q&A sessions.

SPEAKERS SYMPOSIUM

Sanghamitra Bandyopadhyay / Dipesh Chakrabarty / Partha Dasgupta* / Felix Eckardt
Tyler J. Frazier / Sibylle Günter / Mark Jaccard / Wilhelm Krull* / Zbigniew Kundzewicz
David Lam / David McAllister / Dennis L. Meadows / Dirk Messner / Matin Qaim / Roland
Rau / Uwe Schneidewind / Max Schön / Wikus van Niekerk / Stephan Weil / Harald Welzer⁺

SPEAKERS WINTERSCHOOL

Jürgen Kurths* / Dennis L. Meadows / Stefan W. Pickl / Matin Qaim* / Roland Rau*
Frank Uekoetter*

CHAIRS

Stefan Bringezu / Helga Nowotny⁺ / Martin Meister / Rüdiger Pethig / Daniel Alexander
Schacht

⁺ members of the Steering Committee
for the Symposium 'Already Beyond? –
40 Years Limits to Growth'

^{*} members of the Steering Committee for
the Winterschool 'Limits to Growth
Revisited'

SANGHAMITRA BANDYOPADHYAY

Sanghamitra Bandyopadhyay is lecturer in economics at the School of Business and Management at Queen Mary, University of London, where she also is deputy director of the Centre for Globalisation Research. She graduated from London School of Economics in 2002 with her Ph.D. thesis 'An Inquiry into Causes of Regional Disparities in Economic Growth Across Indian States'. She is a research associate of both the London School of Economics and the University of Oxford. Her research interests are on economic growth and development, applied econometrics, and the measurement of inequality and poverty. She has contributed to the World Development Report in 2009 on spatial development and inequality, is an editorial board member of the 'Review of Income and Wealth' and was a committee member of the SRC-DFID joint fund for poverty alleviation research of the British Economic and Social Research Council.

STEFAN BRINGEZU

Stefan Bringezu has been director of the research group on 'Material Flows and Resource Management' at the Wuppertal Institute for Climate, Environment, and Energy since 2003. Before, he held positions at the German Federal Environmental Agency and was head of department for 'Supply Systems and Environmental Planning' at the University of Dortmund. His research focuses on the analysis of socio-industrial metabolism and land use, material flow analysis, LCA-MIPS (incl. 'hidden flows'), indicators for sustainability, integrated sustainability assessment, multi-level information systems, resource efficient supply and infrastructure systems, drivers of resource use (biomass and minerals), and scenarios for sustainable resource management. Since October 2011, he is professor for sustainable resource management at the Center for Environmental Systems Research at the University of Kassel.

DIPESH CHAKRABARTY

Dipesh Chakrabarty is the Lawrence A. Kimpton Distinguished Service Professor of History, South Asian Languages and Civilizations at the University of Chicago where he holds a faculty fellowship with the Chicago Center for Contemporary Theory and courtesy appointment in the Law School. He is also a visiting professorial fellow with the Humanities Research Centre of the Australian National University. He is a co-editor of 'Critical Inquiry' and serves on the editorial boards of many other journals. He is a member of the scientific advisory board of the Center for Global Cooperation Research, Bonn, Essen, Duisburg. His publications include 'Provincializing Europe: Postcolonial Thought and Historical Difference and Habitations of Modernity'. He is currently engaged in completing a book on climate change and its implications for the writing of human history.

SIR PARTHA DASGUPTA

Sir Partha Dasgupta was born in Dhaka (at that time in India) and educated in Varanasi, Delhi, and Cambridge. He is the Frank Ramsey Professor Emeritus of Economics at the University of Cambridge, fellow of St John's College, Cambridge, and professorial research fellow at the Sustainable Consumption Institute, University of Manchester. He taught at the London School of Economics and at Stanford University. Since 1999, he has been a founder member of the management and advisory committee of the South Asian Network for Development and Environmental Economics, Kathmandu. In 1996, he helped to establish the journal 'Environment and Development Economics'. Professor Dasgupta's research interests have covered welfare and development economics, the economics of technological change, population, environmental and resource economics, the theory of games, the economics of undernutrition, and the economics of social capital.

FELIX EKARDT

Felix Ekardt studied law and European law as well as sociology and religious studies in Berlin, Marburg, and Leipzig. He did his Ph.D. in 2000 at the University of Halle on the economic, cultural, historical, and religious causes of non-sustainability and his habilitation in 2003 at the University of Rostock on the theory of sustainability. From 2003 to 2008, he was professor of public law with a focus on German, European, and international environmental law at the University of Bremen and since early 2009 he teaches at the University of Rostock. He is founder of the Centre for Sustainability and Climate Policy with headquarters in Leipzig. His research focuses on transdisciplinary, especially legal, philosophical and sociological theory of sustainability, climate change law and general environmental law, the theory of basic human rights, and WTO law.

TYLER J. FRAZIER

Tyler J. Frazier has more than eight years of experience working as a professional urban planner in both the private and public sector in the U.S. Additionally, he is certified by the American Institute of Certified Planners. He received his Ph.D. from the University of Bonn and its Centre for Development Research (ZEF) for 'Powering Accra. Projecting Electricity Demand for Ghana's Capital City' and is now embarking on a new research project at the University of Berlin (TU) on how to develop an urban simulation system for a major West African city. He did various grand scale research and planning projects - one amongst them with the Center for Development Research, the GLOWA-Volta Project, to support sustainable water resource management in the riparian countries of the Volta Basin in West Africa.

SIBYLLE GÜNTER

Sibylle Günter graduated from the University of Rostock in 1987 and got her Ph.D. three years later with a dissertation on computational investigation of radiation from dense plasmas at the Department of Theoretical Physics. From 1990 to 1996 she was a research assistant at the chair 'Theoretical Physics I'. She studied at the University of Maryland and was a visiting scholar at the National Institute of Standards and Technology in the U.S. After her habilitation on optical performances of dense plasmas at the University of Rostock in 1996, she became a researcher at the Max-Planck-Institute for Plasma Physics. In 2000, she became head of the department for Tokamak Theory. Since 2001, she has been professor at the University of Rostock and honorary professor at the University of Munich (TU) since 2006. In February 2011, she became scientific director of the Max-Planck-Institute for Plasma Physics.

MARK JACCARD

Mark Jaccard develops and applies models that assess sustainability policies for energy and materials, and directs the Canadian Industrial Energy End-Use Data and Analysis Centre. A professor in resources and environmental management since 1986, he served as chair and CEO of the B.C. Utilities Commission from 1992 to 1997. He serves on the Intergovernmental Panel on Climate Change (IPCC) and he currently is a lead author for the special report on renewable energy and on the China Council for International Cooperation on Environment and Development where he co-chairs a task force on sustainable use of coal. He is convening lead author for sustainable energy policy in the Global Energy Assessment and a member of Canada's National Roundtable on the Environment and the Economy. In 2006, his book 'Sustainable Fossil Fuels', won the Donner Prize for top policy books in Canada.

WILHELM KRULL

Wilhelm Krull has been Secretary General of the Volkswagen Foundation since 1996. Besides his professional activities in science policy as well as in the promotion and funding of research, he was and still is a member of numerous national, foreign, and international committees. At present, he is the chairman of the board of the Foundation Georg-August-Universität Göttingen, a member of the governing board of the Central European University in Budapest, of the scientific advisory commission of Lower Saxony and of the boards of various Max-Planck-Institutes. Since 2010, Wilhelm Krull has been chairman of the advisory board of the Austrian Science Fund FWF in Vienna. In June 2008, he was elected chairman of the Bundesverband Deutscher Stiftungen (Association of German Foundations).

ZBIGNIEW W. KUNDZEWICZ

Zbigniew W. Kundzewicz has been professor of earth sciences since 1993. He is head of the Laboratory of Climate and Water Resources at the Institute for Agricultural and Forest Environment at the Polish Academy of Sciences in Poznań, Poland, and a senior scientist at the Institute for Climate Impact Research in Potsdam, Germany. He was coordinating lead author of Chapter 13 in the Intergovernmental Panel on Climate Change (IPCC). Kundzewicz is a member of the advisory board on the environment (including climate change) of the European Union Seventh Framework Program. He is Editor-in-Chief of the bi-monthly 'Hydrological Sciences Journal' and member of editorial boards of several scientific journals. His principal research interest and expertise are the following topics: extreme hydrological events, climate change impacts, sustainable development.

JÜRGEN KURTHS

Jürgen Kurths got his Ph.D. in 1983 at the GDR Academy of Sciences and his Dr. habil. in 1990. He was full professor at the University of Potsdam from 1994 to 2008. He has been professor of nonlinear dynamics at the Humboldt University of Berlin, chair of the research domain 'Transdisciplinary Concepts' of the Potsdam Institute for Climate Impact Research since 2008, and has been professor for nonlinear systems biology at the University of Aberdeen since 2009. He is a fellow of the American Physical Society and of the Fraunhofer Society. He was elected as a member of the Academia Europaea in 2010. His main research interests are complex synchronization phenomena, complex networks, nonlinear time series analysis and their applications in systems biology and neuroscience. He has published more than 500 papers in peer-reviewed journals and two monographs.

DAVID LAM

David Lam is professor in the Department of Economics and research professor in the Population Studies Center at the University of Michigan. He received a Ph.D. in economics in 1983 from the University of California, Berkeley. Professor Lam's research focuses on the interaction of economics and demography in developing countries, including analysis of the economics of population growth, fertility, marriage, and aging. He has worked extensively in Brazil and South Africa, where his research analyzes links between education, labor markets, and income inequality. He was a member of the Committee on Population of the U.S. National Academy of Sciences, and has served as an advisor to the World Bank, the U.S. National Institutes of Health, the United Nations Population Division, and the South Africa Office of the Presidency.

DAVID MCALLISTER

David McAllister was elected Prime Minister of Lower Saxony on July 1st, 2010. Born in Berlin in 1971, he studied law at the University of Hanover with a scholarship awarded by the Konrad-Adenauer-Foundation. In 1996, he completed the first state examination. The second state examination followed in 1998, he then became a lawyer. From 1991 to 1994 McAllister was county chairman of the Junge Union (Young Christian Democrats) in Cuxhaven. From 2002 to 2003 he was Secretary General of the CDU (Christian Democratic Union) in Lower Saxony. Since 1998, McAllister is member of the Landtag (federal state parliament) of Lower Saxony, where he was chairman of the CDU parliamentary group from 2003 until his election as Prime Minister in 2010. Since 2008, he was party chairman of the CDU in Lower Saxony as well. David McAllister received an honorary doctorate from the University of Edinburgh in 2012.

DENNIS L. MEADOWS

Dennis L. Meadows was a professor for 35 years, at the Massachusetts Institute of Technology, MIT (1969-1972), at Dartmouth College (1972-1988), and the University of New Hampshire (1988-2004). A polymath, he earned tenured positions on faculties of business, engineering, and the social sciences. He graduated from MIT with a Ph.D. in management, specializing in system dynamics, finance, and the management of programs to develop new technologies. He is the author of the first report to the Club of Rome, 'The Limits to Growth', written in 1972. It sold over three million copies, was awarded the German Peace Prize, and was selected as one of the most influential environmental texts of the 20th century. Meadows is president of the Laboratory for Interactive Learning, New Hampshire. He designs management-training simulations on issues related to energy, environment, and sustainable development.

MARTIN MEISTER

Martin Meister is a trained philosopher and a biologist. His professional career started at Germany's prestigious Henri-Nannen School for Journalism and took him to the current position as Editor-in-Chief for GEO International. This highly esteemed magazine and competitor of the American 'National Geographic' has a reputation for quality. For more than ten years, Martin Meister has also been working for television in co-productions for GEO and public broadcasters. Furthermore, he is one of the key promoters in a public private partnership in the field of sustainable development involving the magazine GEO as well as governmental organizations on four continents and a multitude of local stakeholders: the 'Action Days for Biodiversity'.

DIRK MESSNER

Dirk Messner is director of the German Development Institute (Deutsches Institut für Entwicklungspolitik) in Bonn since 2003. He is a development economist and political scientist with research and teaching activities in different Latin American and Asian countries. His research focuses i.a. on globalization and global governance, global environmental change and development, development policy, low carbon strategies, governance and network theories. He is a member of the Advisory Council on Global Change to the German Federal Government since 2004 and since 2009 acts as its vice chair. I.a. he is a professor for political science at the University of Duisburg-Essen and a professor for international political economy at the University of Munich (LMU). Before he took on his present position he was academic director of the Institute of Development and Peace of the University of Duisburg-Essen.

HELGA NOWOTNY

Helga Nowotny is professor emerita of social studies of science, ETH Zurich (Swiss Federal Institute of Technology) and a founding member of the European Research Council. In 2010, she was elected ERC president. She holds a Ph.D. in sociology from Columbia University, NY, and a doctorate in jurisprudence from the University of Vienna. Helga Nowotny is a member of many international advisory boards and selection committees. From 2005 to June 2011, she was e.g. chair of the scientific advisory board of the University of Vienna. She is a foreign member of the Royal Swedish Academy of Sciences, a longstanding member of the Academia Europaea and recipient of several prizes and awards. Her latest book is 'Naked Genes. Reinventing the Human in the Molecular Age' was published in 2011 (MIT Press).

RÜDIGER PETHIG

Rüdiger Pethig is professor emeritus of economics and public finance at the University of Siegen, Germany. Before, he taught at the Universities of Oldenburg, Dortmund, and Mannheim and was visiting professor at many institutions abroad e.g. the University of Southampton, the University of Crete in Rethymno, and the Beijer Institute of Ecological Economics in Stockholm to name but a few. His main research areas and interests are i.a.: environmental and resource economics (regulatory overlapping in EU climate policy, the integrated analysis of economies and ecosystems, waste management and recycling), the theory of public goods (common resources, optimal taxation and public goods, the theory of interest groups), and media economics (allocation issues in the media sector, financing of television, and regulation in the media sector).

STEFAN W. PICKL

Stefan W. Pickl studied mathematics, electrical engineering, and philosophy at the University of Darmstadt where he also obtained his doctor's degree in 1998 followed by his habilitation at the University of Cologne in 2005. Since 2005, Stefan Pickl has been holding a chair for operations research (OR) at the University of the Armed Forces in Munich where Frederic Vester established system dynamics in Europe. In 2000, Stefan Pickl received the Ph.D. thesis award by the German Society for OR followed by international best-paper awards in the years 2003, 2005, and 2007. He is counselor to the Center for the Advanced Studies of Algorithms at the University of Nevada, Las Vegas. Since 2010, he has been chair of the advisory board of the German Society for OR and currently develops an online education tool in the area of OR/system dynamics.

MATIN QAIM

Matin Qaim is an agricultural economist and is professor of international food economics and rural development at the University of Göttingen. Before taking on this position, he was professor at the University of Hohenheim, research team leader at the Center for Development Research in Bonn, and research fellow at the University of California at Berkeley. He has extensive research experience related to the economics of hunger and malnutrition with a special focus on rural areas in developing countries. Qaim has implemented and coordinated numerous studies on the adoption and impacts of agricultural technologies in the small farm sector of countries in Asia, Africa, and Latin America. He is a member of several scientific and policy advisory committees, including that for the German Federal Ministry of Food, Agriculture, and Consumer Protection.

ROLAND RAU

Roland Rau is professor of demography at the University of Rostock since 2011 where he currently also serves as chair of the department of sociology and demography. After obtaining a master's degree in political science at the University of Bamberg in 2001, he was a doctoral student at the Max-Planck-Institute for Demographic Research at the University of Rostock until 2005. The Max-Planck-Society awarded him the Otto Hahn Medal for his doctoral dissertation. From 2006 until 2008, Roland Rau was research scholar at the Public Policy Institute at Duke University in the United States. Before his current appointment, Roland Rau was assistant professor at the University of Rostock and senior research scientist at the Max-Planck-Institute for Demographic Research. His main research interests are mortality, aging societies, quantitative methods, and forecasting.

DANIEL ALEXANDER SCHACHT

Daniel Alexander Schacht is editor of the 'Hannoversche Allgemeine Zeitung', one of Germany's large daily newspapers. He is working on topics of political decision making, science policy, and on international affairs, with a focus on the Middle East. He has done research in Turkey, Israel and the Arab World, and in Africa and Asia, too. He studied political science, literature, and visual arts and obtained his doctor of philosophy from the University of Marburg. His dissertation on 'New German Film and the Political Movement after 1968' analyzes how the segregation between reformists and later terrorists was reflected in German films of the late 1960s.

UWE SCHNEIDEWIND

Uwe Schneidewind is president of the Wuppertal Institute for Climate, Environment, and Energy and professor for sustainable transition management at the University of Wuppertal. He studied business administration at the University of Cologne and HEC/Paris. He was a strategic consultant in environmental management at Roland Berger & Partner before becoming a researcher at the Institute for Economy and the Environment at St. Gallen University in Switzerland. From 1998 to 2010, Uwe Schneidewind held a full-time professorship position for production management and the environment at the University of Oldenburg. He is a member of the Club of Rome and of the steering group of the Sustainability Transitions Research Network. His latest book 'Nachhaltige Wissenschaft (Sustainable Science)' analyses the status of sustainability science in the German science system.

MAX SCHÖN

Max Schön has been director of the '2° Foundation - German CEOs for Climate Protection' since 2011, and president of the German branch of the Club of Rome since 2007. After his studies at the University of Stuttgart he became CEO of the Max Schön AG Lübeck, a company which since 1920 produces a comprehensive range of tools, machinery, industrial supplies, and vehicle equipment. His expertise is sought by the German Association of Family Entrepreneurs, Germany's No. 1 lobby-group for private owned companies, which he chaired as president for five years. Since 2010, he is the chairman of the supervisory board of the DESERTEC Foundation, Berlin/Hamburg. He is i.a. a member of the Climate Advisory Board of the Federal State Schleswig-Holstein, a member of the supervisory board of Timbertec AG and a member of the supervisory board of BAT British American Tobacco.

FRANK UEKOETTER

Frank Uekoetter studied history, political science, and the social sciences at the Universities of Freiburg and Bielefeld, the Johns Hopkins University, and Carnegie Mellon University. In 2001, he received his Ph.D. for his dissertation on the history of air pollution control in Germany and the United States. In 2002, he organized the conference 'Nature Protection in Nazi Germany' under the auspices of the German Minister for the Environment. This work eventually led to the publication of an environmental history of Nazi Germany. Since 2006, he has been a Diltthey Fellow with the Research Institute of the Deutsches Museum in Munich, working on a history of agricultural knowledge in the 20th century. In 2008, he joined forces with three colleagues in a successful bid to found the 'Rachel Carson Center for Environment and Society' for environmental history and environmental research within the humanities.

WIKUS VAN NIEKERK

Wikus van Niekerk is a professor in the Department of Mechanical and Mechatronic Engineering at Stellenbosch University. He is the director of the Centre for Renewable and Sustainable Energy Studies established in 2006 to coordinate the postgraduate program in Renewable and Sustainable Energy Studies. He has a keen interest in harvesting energy from the sun, wind, and ocean. He is a registered professional engineer with the Engineering Council of South Africa and has been practicing as a consultant to industry for fifteen years. He is a fellow of the South African Institution for Mechanical Engineering, the Southern African Acoustics Institute, the South African Academy of Engineers, a member of the American Society of Mechanical Engineers, the Sustainable Energy Society of South Africa, and a board member of the International Solar Energy Society.

STEPHAN WEIL

Stephan Weil became Mayor of Hanover on November 1st, 2006. In January 2012, he was elected national chairman of the SPD (Social Democratic Party) in Lower Saxony. After studying law at the University of Göttingen, he took the first state examination in 1983 and the second state examination in 1986. From 1987 on, he worked as a lawyer in Hanover, later as a prosecutor and judge, and also served in the Ministry of Justice of Lower Saxony. Weil was chairman of the Young Socialists in Hanover and chairman of the Hanover SPD. From 1997 to late October 2006, he held the office of city treasurer. He holds various mandates i.a. as a chairman of the supervisory board of Deutsche Messe AG and as a member of the executive committee of the German Association of Cities and the Association of Cities of Lower Saxony.

HARALD WELZER

Harald Welzer is co-founder and director of the foundation FUTURZWEI which has taken to identifying and promoting alternative lifestyles and alternative economic systems. He studied sociology, political science, and literature at the University of Hanover, received his doctorate in sociology in 1988, and did two habilitations, one in social psychology and one in sociology. He is director of the Center for Interdisciplinary Memory Research (CMR) in Essen and led several projects connected to the research program on climate and culture at the Institute for Cultural Studies in Essen. He also is a professor of social psychology at the University of Witten/Herdecke and an affiliated member of faculty at the Marial Center of Emory University, Atlanta. The focus of his research and teaching is on memory and commemorative culture, group violence, and the cultural aspects of climate impact research.

NOTES

INFORMATION

CONFERENCE VENUE

Gallery in the Herrenhausen Gardens
(Galerie Herrenhausen Hannover)
Herrenhäuser Straße 3a
30419 Hannover
Germany

Tram station: Herrenhäuser Gärten
(Line 4 and 5 in the direction of
Stöcken or Garbsen)

'LIMITS'-TEAM AT THE VOLKSWAGEN FOUNDATION

Anorthe Kremers
Nataliya Moor
Matthias Nöllenburg
Vanessa Spitau

CONTACT

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