



UNDERSTANDING THE WEF NEXUS AND ITS IMPLICATIONS FOR GOVERNANCE

SCIENTIFIC FORUM, 15./16. June 2016 OSNABRÜCK, GERMANY

Time	Wednesday, 15 th June
10:00-11:00	<p style="text-align: right;">Opening Plenary I Room 1</p> <p style="text-align: center;">Speakers: Claudia Pahl-Wostl Wolfram Mauser</p>
11:00-11:30	Coffee Break
11:30-12:30	<p style="text-align: right;">Opening Plenary II Room 1</p> <p style="text-align: center;">Speakers: Louis Lebel James Patterson</p>
12:30-13:30	Lunch Break
13:30-15:15	Parallel Workshop Sessions – Block A
15:15-15:45	Coffee Break
15:45-17:30	Parallel Workshop Sessions – Block B
17:45-18:00	<p style="text-align: right;">Plenary Session Room 1</p> <p style="text-align: center;">Speaker: Antje Bruns</p>
18:00-19:00	Reception (and video presentation by Daphne Ghondalekar, TU Munich)



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Time	Thursday, 16 th June
09:00-10:00	Plenary Room 1 Speakers: Keith Richards Klement Tockner
10:00-10:30	Coffee Break
10:30-12:15	Parallel Workshop Sessions – Block C
12:15-13:15	Lunch Break
13:15-15:00	Parallel Workshop Sessions – Block D
15:00-15:30	Coffee Break
15:30-16:30	Outlook Session: Funding and planned Research Activities Room 1 Speakers: Anik Bhaduri Ute Weber Thorsten Kiefer Cian O'Donovan
16:30-17:00	Closing Symposium Room 1
17:00-18:30	Information and Preparation Meeting Room 1 The meeting should be attended by early career researchers interested in the WEF academy in October and by senior scientists who will be - are interested to become - engaged in the academy as mentors and lecturers.



Overview Parallel Sessions

Wednesday, 15. June 2016

13:30 - 15:15

A1 - Integrated Nexus Modelling at Global Scale		chaired by Joseph Alcamo, Room 3
Simon Langan	Asian water futures - Multi scenarios, models and criteria assessment	
Animesh Gain	Integrated assessment of synergies and tradeoffs of global challenges through nexus approach at global, national and local scales	
Vera Heck	Opportunities and trade-offs of terrestrial carbon dioxide removal within planetary boundaries	
Jan Janse	Modelling of aquatic ecosystem services related to global environmental change by a global modelling framework	
Anne Biewald	The impact of climate change mitigation on water demand for energy and food	
A2 - Unsustainable Pathways and Leverage Points		chaired by Antje Bruns, Room 2
Johannes Halbe	The Role of Sustainability Innovations in the Governance of the W-E-F Nexus	
Jalal Mirnezami	Escaping the trap of short-termism to take the Nexus approach: Exiting from the water crisis in Iran	
Jens Newig	Leverage points for sustainability transformation in the Water-Energy-Food Nexus – Institutional perspectives	
Patricia Romero-Lankao	Urbanization, Security of Food-Energy-Water Nexus and Extreme HazARd RiSKs (UNMASK)	
Annika Weiss	Integrated Modelling and complex interdependencies	
A3 - Nexus approaches in Land-Water-Energy Interactions		chaired by Holger Hoff, Room 1
Beatrice Mayor Rodriguez	Water and Energy Nexus: Bringing Perspective Over the Role of Large and Small Scale Hydropower in the Duero Basin (Spain)	
Gül Özerol	Using solar energy for water desalination in the Middle East and North Africa: A comparative assessment of governance implications for the water-food-energy nexus	
Maria Ubierna	Water-energy-food nexus in the Omo River Basin, Ethiopia	
Daniel van Rooijen	Drivers of land degradation and its impact on water and food security in the Bale Eco-Region, Ethiopia	
Lennart Woltering	Rapid appraisal of the Water-Energy-Food nexus in Zambia	



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B1 - Capturing complex Interdependencies through Modelling		chaired by Jiagou Qi, Room 2
Mohamad Al-Saidi:	Towards Understanding the Integrative Approach of the Water, Energy Food Nexus	
Rosella de Vito	System Dynamic Modelling to evaluate Water-Energy-Food Nexus at local scale	
Sandra Venghaus	From a few assessment tools to a FEW assessment tool – a modular, stakeholder-based framework for the integrated assessment of the food, energy, water nexus	
Dale Rothman	The challenges of the Water-Energy-Food Nexus for Integrated Modeling	
Peter Burek	Looking at the spatial and temporal distribution of global water availability and demand	
B2 - Local Governance of the Nexus		chaired by Patricia Romero-Lankao, Room 3
Aiko Endo	Local Governance of the WEF Nexus	
Pauline Macharia	The Water-Energy Nexus: Optimization of water-energy efficiency in drinking-water utilities.	
Karen Meijer	From water hyacinths to fisheries and biofuels for clean cooking in Kisumu Bay Kenya – an example of an innovative governance instrument	
Kees de Jong	Participative Watershed Management to improve local Governance and adaptation to Climate Change	
Willington Ortiz	Family Farming Systems: Spaces for the sustainable management of the Water-Energy-Food Nexus	
B3 - The Role of the Nexus in the Implementation of the SDGs		chaired by Claudia Pahl-Wostl, Room 1
Joseph Alcamo	The role of the WEF Nexus in the implementation of the SDGs	
Holger Hoff	Three principles of the SDG's	
Joyeeta Gupta	The WEF Nexus and the implementation of the SDG's	
Max Spiegelberg	The Sustainable Development Goals and the Water-Energy-Food Nexus: Synergies, similarities and differences in publications	
Holm Voigt	Crops, Cash and Capacities – A WEF-Nexus Showcase from the Aral Sea Basin	



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C1 - Politicization and Securization of the Nexus		chaired by Joyeeta Gupta, Room 2
Marcela Brugnach	The Water-Energy-Food Nexus: Implications for Decision Making under Uncertainty	
Regina Buono	Politicization of the WEF Nexus	
Simon Meisch	The water-energy food-security nexus–Securitising Sustainability and its Implications for Governance	
Jean Rodriguez	Payment for ecosystem services in the context of the water-energy-food/land nexus: Whose water-energy and land/food security matters?	
C2 - Network approaches to study the Nexus		chaired by Claudia Pahl-Wostl, Room 1
Orjan Bödin	A social-ecological network approach to analyze benefits and constraints in collaborative governance of the WEF Nexus	
Martin Franz, Nicolas Schlitz	Globalization and the Water-Energy-Food Nexus – the Potential of the Global Production Networks Approach for Analysis of Society-Nature Interrelations	
Kathrin Knüppe	Analyzing the governance of ecosystem services from a nexus prospect	
Christian Stein	Networks and the Nexus: a case study from the Upper Blue Nile	
C3 - The Nexus in Transboundary Basin Governance		chaired by Lars Ribbe, Room 3
Anik Bhaduri	Water Energy Food Nexus in the Amu Darya basin, Central Asia	
Eline Boelee	Challenges for basin organisations in governing the water-energy-food nexus	
Ines Dombrowsky	Governing the Water-Energy Nexus related to hydropower on international rivers: what role for river basin and regional energy organizations?	
Mahsa Motlagh	Prospect of trans-boundary cooperation among Eastern Nile riparian countries	



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D1 - Modelling the Nexus: Case Studies		chaired by Aiko Endo, Room 3
Anthony Halog	Modelling the complex interdependencies for co-existence potential between coal seam gas and agricultural industries in Australia	
Julia Kleinteich	The boom of hydropower dams in Africa – their chances, consequences and ecological risks for drinking water quality	
Sara Lotfi	Modeling the role of water, food and energy policies in self-organization of water resources systems	
Robert Lütkeemeier	Blended Drought Index (BDI): Estimating Drought Risk in the Cuvelai Basin Using Multiple Satellite Datasets	
D2 - The Role of Ecosystem Services in Governing the Nexus		chaired by Jean Carlos Rodriguez de Francisco, Room 2
Jochen Hack	Using functional linkages of hydrological ecosystem services to solve integration problems of integrated water resources management	
Nina Hagemann	Trade-offs and synergies between ecosystem services of soils: Governance implications towards sustainable agricultural soil management	
Nazmul Huq	Ecosystem Services in Climate Change Adaptation Governance: Perspective from Bangladesh	
Bettina Matzdorf	Actors and institutional setting of water payments for ecosystem services	
Francis Turkelboom	Application of the ecosystem services framework for vision development: Experiences from Belgium and Syria	
D3 - Policy Coherence and Multi-Level Nexus Governance		chaired by Jens Newig, Room 1
Nicolas Jager	Assessing policy coherence in the Water-Energy-Food nexus: insights from a comparative case study in Lower Saxony, Germany, and Transylvania, Romania	
Christian Schleyer	Integrating the ecosystem services concept in EU policy-making: Conceptual challenges and empirical observations	
Andreas Thiel	Transferring Williamson's discriminating alignment to the analysis of environmental nexus governance of social-ecological interdependence	
Elena Lopez Gunn	The water-energy-food nexus: Foresight for research and innovation in the context of climate change	



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Overview Panel Sessions

Wednesday, 15. June 2016

10:00 - 11:00

CLAUDIA PAHL-WOSTL, Professor, University of Osnabrück

WOLFRAM MAUSER, Professor, Ludwig-Maximilians University of Munich

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11:30 - 12:30

LOUIS LEBEL, Chiang Mai University

JAMES PATTERSON, University of Amsterdam

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ANTJE BRUNS, Professor, University of Trier

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09:00 - 10:00

KEITH RICHARDS, Cambridge University

KLEMENT TOCKNER, Professor, Freie Universität Berlin

Thursday, 16. June 2016

15:30 - 16:30

ANIK BHADURI, Sustainable Water Future Programme (SWFP)

UTE WEBER, Deutsche Forschungsgemeinschaft (DFG)

THORSTEN KIEFER, Future Earth

CIAN O'DONAVAN, UK WEF-Nexus Network