

## Scientific Recognition: Water Program and Special Projects

### Presentations and conference abstracts

*Fischer, G.*

- Keynote lecture: Introduction to NSFC-IIASA Joint Project on "Assessing the Impact of Climate Change and Intensive Human Activities on China's Agro-Ecosystem and its Supply Potentials": Focus on Scientific Achievements. NSFC-IIASA Forum on "Opportunities and Challenges of China's Agriculture under Climate Change", 24-28 February 2013, Shanghai, China.
- Invited lecture: Introduction to NSFC-IIASA Joint Project on "Assessing the Impact of Climate Change and Intensive Human Activities on China's Agro-Ecosystem and its Supply Potentials": A brief overview. Anhui Climate Center, 26 February 2013, Hefei, China.
- Invited lecture: Agro-ecological Impacts of Ground-level Ozone. Anhui Climate Center, 26 February 2013, Hefei, China.
- Invited lecture: Global Scenarios of Population, Land, Water and Energy Use: Introduction to the Shared Socio-economic Pathways (SSPs). TIFAC-IIASA-GIDR Workshop on 'Changing Land Use and Environmental Implications under the Emerging Economic and Climatic Scenarios in India' held on 5-6 March 2013 at GIDR in Ahmedabad, Gujarat.
- Invited lecture: A Spatially Detailed Assessment of Climate Change and Environmental Impacts on Agriculture Sector in China. TIFAC-IIASA-GIDR Workshop on 'Changing Land Use and Environmental Implications under the Emerging Economic and Climatic Scenarios in India' held on 5-6 March 2013 at GIDR in Ahmedabad, Gujarat.
- Invited lecture: Scenario Analysis with GLOBIOM; and Multi-scale Analysis of the World Food System in the GAEZ/WFS Framework. TIFAC-IIASA-GIDR Workshop on 'Changing Land Use and Environmental Implications under the Emerging Economic and Climatic Scenarios in India' held on 5-6 March 2013 at GIDR in Ahmedabad, Gujarat.
- Invited lecture: Auswirkungen von Biotreibstoffen auf die Landwirtschaft und die Preisstruktur von landwirtschaftlichen Produkten. ÖMAV Information Symposium on „Wasser, Energie und Klimawandel – Herausforderungen, Rahmenbedingungen und Chancen für die Wasserwirtschaft“, 13 March 2013, Vienna, Austria.
- Model Linkages of the WFaS Scenarios related to the RCP/SSP Process. Water Futures and Solutions Project Group Meeting, 6-8 May 2013, Laxenburg, Austria.
- Multi-scale Analysis of the World Food System in the GAEZ/WFS Framework. Water Futures and Solutions Project Group Meeting, 6-8 May 2013, Laxenburg, Austria.
- Invited lecture: Models for Himalayan River Basins. International Workshop on 'Pathways for Climate Resilient Livelihoods in Himalayan River Basins', 1-2 August 2013, New Delhi.
- Hydro-Economic Classification. Water Futures and Solutions Progress Meeting, 11 September 2013, Laxenburg, Austria.
- Agriculture Sector Water Use Perspective. Water Futures and Solutions Progress Meeting, 11 September 2013, Laxenburg, Austria.
- Agriculture Sector Perspective. Water Futures and Solutions Project Group Meeting, 1 October 2013, Laxenburg, Austria.
- Agriculture Sector Perspective. Nature II Meeting, 3-4 October 2013, Laxenburg, Austria.
- Invited lecture: AEZ Land Assessments and Applications in Global/Regional/National Analyses. Joint ICTP-IAEA Workshop, 8 October 2013, ICTP, Trieste, Italy.
- Invited lecture: Global Analysis using Crop Modeling and Agro-ecological Databases to Assess Global Food Production Trends. Expert Consultation on 'Global Food Production under Changing Climate and Increased Variability: Implications for Trade and Food Policy', 5-6 November 2013, at FAO HQ, Rome, Italy.

*Magnuszewski, P.*

- Invited lecture and session: Serious Games within the Dutch Water Sector Intelligence meeting organized by Wartercycle Research Institute, 17 April 2013
- Water Futures and Solutions Initiative, Project Group Meeting, IIASA, 6-8 May 2013. Presentation: Developing a New Generation of Integrated World Water Scenarios
- Water Futures and Solutions Initiative, Project Group Meeting, IIASA, 30 September-2 October 2013. Presentation: Water Scenarios Overview: Extending SSPs for Water
- Water Futures and Solutions Initiative, Scenario Focus Group Meeting, Paris, 4-6 November 2014. Presentation: Developing a New Generation of Integrated World Water Scenarios.

*Sun, L.*

- Multi-regional Input-Output (MRIO) Modelling for Water-use Scenario Analysis. Water Futures and Solutions Project Group Meeting, 6-8 May 2013, Laxenburg, Austria.

*van Vliet, M.T.H.*

- van Vliet, M.T.H. (2013), Assessment of Water-Energy Nexus within Water Futures and Solutions Initiative, presentation Energy (ENE) Program IIASA, July, Laxenburg, Austria

- van Vliet, M.T.H., F. Ludwig and P. Kabat (2013) Cross-sectoral conflicts for water under climate change: the need to include water quality impacts, International Conference on Climate Change Effects, 29 May 201, Potsdam, Germany
- van Vliet, M.T.H., J.R. Yearsley, F. Ludwig, D.P. Lettenmaier and P. Kabat (2013) Global River Temperatures and Flows under Climate Change and Impact on Electricity Supply, Global Water System Project (GWSP) conference, 21-24 May, Bonn, Germany
- van Vliet, M.T.H. (2013) Update of Water for Energy Scenarios, Nature II meeting, 20 May 2013, Bonn, Germany
- van Vliet, M.T.H. (2013) Climate change impacts on cooling water use in the energy sector, February 2013, lunch seminar at Deltares, Utrecht, The Netherlands (invited)
- van Vliet, M.T.H. (2013) Global Rivers Warming Up: Impacts on Cooling Water Use in the Energy Sector and Freshwater Ecosystems, seminar Ecosystems Services and Management (ESM) Program IIASA, 19 April / Nature-II Scenarios Team Workshop, 28-30 January, IIASA, Laxenburg, Austria

#### *Wada, Y*

- Gleeson, T., and Y. Wada (2013), Assessing regional groundwater stress for nations using multiple data sources with the groundwater footprint, 2013 American Geophysical Union (AGU) Fall Meeting in San Francisco, US, December 9-13 2013, Abstract H53J-08 (Invited).
- Wada, Y., D. Wisser, S. Eisner, M. Flörke, D. Gerten, I. Haddeland, N. Hanasaki, Y. Masaki, F. T. Portmann, T. Stacke, Z. Tessler, and J. Schewe (2013), Multi-model projections and uncertainties of irrigation water demand under climate change, 2013 American Geophysical Union (AGU) Fall Meeting in San Francisco, US, December 9-13 2013, Abstract GC11E-04 (Invited).
- Wada, Y., and L. Heinrich (2013), Assessment of transboundary aquifers of the world—vulnerability arising from human water use, 2013 American Geophysical Union (AGU) Fall Meeting in San Francisco, US, December 9-13 2013, Abstract H53J-07 (Invited).
- Wada, Y., D. Wisser, S. Eisner, M. Flörke, D. Gerten, I. Haddeland, N. Hanasaki, Y. Masaki, F.T. Portmann, T. Stacke, and J. Schewe (2013), Future irrigation water demand under climate change: regional variability and uncertainties arising from GHMs and CMIP5 climate projections, Water in the Anthropocene: Challenges for Science and Governance. Indicators, Thresholds and Uncertainties of the Global Water System in Bonn, Germany, May 21-24 2013.
- Straatsma, M., P. Droogers, J. Brandsma, W. Buytaert, D. Karssenbergh, K. Meijer, M. van Aalst, R. van Beek, Y. Wada, and M. Bierkens (2013), Water2Invest: Global facility for calculating investments needed to bridge the climate-induced water gap, 2013 European Geophysical Union (EGU) General Assembly in Vienna, Austria, April 7–12 2013. Geophys. Res. Abstr., 15, EGU2013-10355.
- De Graaf, I., R. van Beek, Y. Wada, and M. Bierkens (2013), Dynamic Attribution of Global Water Demand to Surface Water and Groundwater Resources: Effects of Abstractions and Return Flows on River Discharge, 2013 European Geophysical Union (EGU) General Assembly in Vienna, Austria, April 7–12 2013. Geophys. Res. Abstr., 15, EGU2013-3179.
- Wada, Y. (2013), Human and climate impacts on global water resources, Utrecht Studies in Earth Sciences, vol. 50, Doctoral Thesis, Utrecht University, Utrecht, The Netherlands, ISBN 978-90-6266-346-0, p. 470, Available online at <http://igitur-archive.library.uu.nl/dissertations/2013-1105-200603/UUindex.html>

#### *Wiberg, D.A.*

- 2013.03.05 “Water, Lands, Demands, and Plans: Developing a New Generation of Integrated Water Scenarios and Solutions”, Workshop on Changing Land Use and Environmental Implications under the Emerging Economic and Climatic Scenarios in India: Developing Data Base and Methodology, GIDR, Ahmedabad, India.
- 2013.03.05 “Indicators of Ecosystem Stress”, Workshop on Changing Land Use and Environmental Implications under the Emerging Economic and Climatic Scenarios in India: Developing Data Base and Methodology, GIDR, Ahmedabad, India.
- 2013.03.16 “Global Water Futures”, Symposium on Pakistan’s Water Futures, LUMS, Lahore, Pakistan.
- 2013.04.12 “Water Futures and Solutions: A global study with Dutch counterparts”, KWR Dutch and Belgian CEO-Conference 2013, Istanbul, Turkey.
- 2013.05.22 “Water Futures and Solutions: Developing a New Generation of Integrated World Water Scenarios”, Water in the Anthropocene: Challenges for Science and Governance – Indicators, Thresholds and Uncertainties of the Global Water System. GWSP. Bonn, Germany.
- 2013.05.30 “Water Futures and Solutions and ISIMIP Linkages”, Impacts World 2013. PIK, Potsdam, Germany.
- 2013.06.03 “Water Futures and Solutions: Developing a New Generation of Integrated World Water Scenarios”, IIASA Council Meeting, Laxenburg, Austria.
- 2013.06.07 “WAT Program”, YSSP Introductory Workshop, IIASA, Laxenburg, Austria.
- 2013.08.25 “Human Well-being: The water, food, energy and environment nexus”, Annual Conference of the Austrian Development Agency 2013. Vienna, Austria.
- 2013.08.31 “The Water Futures and Solutions Initiative”, UN-Water Members Meeting, Stockholm, Sweden.
- 2013.09.01 “Water Futures and Solutions: Developing a New Generation of Integrated World Water Scenarios”, Cooperation to Address the Complexities of Water Management, Stockholm World Water Week 2013. Stockholm, Sweden.
- 2013.09.30 “Toward Innovative Solutions Through Integrative Futures Analysis”, Water Futures and Solutions Project Group Meeting. Laxenburg, Austria.

- 2013.10.08 "Water Futures and Solutions: Toward Innovative Solutions Through Integrative Futures Analysis", Budapest Water Summit. Budapest, Hungary.
- 2013.10.15 "Water Futures and Solutions: Toward Innovative Solutions Through Integrative Futures Analysis", IWA Development Congress, Nairobi, Kenya.
- 2013.11.04 "Water Futures and Solutions: Toward Innovative Solutions Through Integrative Futures Analysis", WFaS Scenario Focus Group Meeting, Paris, France.
- 2013.11.12 "Toward Innovative Solutions Through Integrative Futures Analysis", IIASA Council Meeting. Laxenburg, Austria.

### Other meetings attended

- Expert Workshop on Knowledge and Capacity Development in the Water Sector; Delft, Netherlands; 27-28 May 2013; Participant: Paul Yillia
- 5th Delft Symposium on Water Sector Capacity Development; Delft, Netherlands; 29-31 May 2013; Participant: Paul Yillia
- 2013 Vienna Energy Forum; Vienna, Austria; 28-30 May 2013; Participant: Paul Yillia
- Side Event - The Energy Future We Want - Including Water & Food in the Energy Debate, 2013 Vienna Energy Forum; Vienna, Austria; 29 May 2013; Participant: Paul Yillia
- Expert Workshop on Knowledge and Capacity Development in the Water Sector; Delft, Netherlands; 27-28 May 2013; Participant: Paul Yillia
- African Development Bank/IIASA/South Africa WRC Consultative Meeting on the Africa Case Study for Water Features & Solutions Initiative; Tunis, Tunisia; 10-11 October 2013;
- Participant: Paul Yillia
- IWA Development Congress and Exhibition; Nairobi, Kenya; 14-17 October 2013; Participant: Paul Yillia
- UN-Water meeting, WB, Washington and individual meetings with NSF, State Dept., USAID, NOAA, USGS, USACE, IADB, OAS, WB, USBR. Participant: Dave Wiberg
- Sustaining and improving rural livelihoods through adaptive approaches to land, soil nutrient and water management, GIDR/TIFAC, Ahmedabad. Participant: Dave Wiberg
- Asia Water Week, ADB, Manila. Participant: Dave Wiberg
- International Workshop on Intelligent Water Grids, LUMS, Lahore
- Task Force on the Water-Food-Energy-Ecosystems Nexus, UNECE, Geneva. Participant: Dave Wiberg
- Dutch and Belgian CEO Conference, KWR, Istanbul Participant: Dave Wiberg
- Global Carbon Project Scientific Steering Committee, IIASA. Participant: Dave Wiberg
- Water in the Anthropocene, Challenges for Science and Governance, GWSP, Bonn
- Impacts World 2013, International Conference on Climate Change Effects, PIK, Potsdam Participant: Dave Wiberg
- Annual Conference of the Austrian Development Agency 2013. Vienna, Austria. Participants: Günther Fischer, David Wiberg
- UN-Water Members Meeting, Stockholm, Sweden. Participant: Dave Wiberg
- Stockholm World Water Week 2013. Stockholm, Sweden. Participant: Dave Wiberg
- IWA Development Congress, Nairobi, Kenya. Participant: Dave Wiberg

### Awards and Recognition

- David Wiberg - Invited member of the GWP-OECD Task Force on Water Security and Sustainable Growth
- David Wiberg - Member of the Scientific Programme Committee for Stockholm World Water Week 2014
- Michelle van Vliet - Niels Stensen Fellowship. This is a personal grant of €36,652 to spend 9 months abroad. Will be used at IIASA, Austria and Princeton University, USA (5/2014 -1/2015)
- Michelle van Vliet - Best PhD thesis Award. National Research School for Socio-Economic and Natural Sciences of the Environment (SENSE) in the Netherlands.