

## MAURITS WILLEM ERTSEN – CURRICULUM VITAE

Date of Birth                      April 23, 1968  
Nationality                        Dutch

☎ + 31 (0) 6 5333 9534  
✉ m.w.ertsen@tudelft.nl  
🌐 <http://www.wrm.tudelft.nl>  
🐦 @mauritsertsen



### RESEARCH FASCINATION

Sustainable water management, closely associated with success and collapse of human civilizations, has become crucial given current climate variability. In all my work, I focus on the question how short-term interactions between humans and non-humans – especially water and associated agents – create the longer-term patterns and processes that we observe or desire. Rather than working on one time period and/or region, my research is based on how this central theme unfolds in different settings. I study states and water in colonial history and archaeology, I work on emerging societal relations and power relations in environmental history and archaeology, and I work on the relation between humans, technologies and environment in current settings. My studies bring me to places like Indonesia, Kenya, Peru, the Ancient Near East and The Netherlands. All my activities are developed in close cooperation with colleagues from universities, NGO's, and the private sector.

### PRESENT POSITION

Associate Professor  
Water Resources Management group  
Civil Engineering and Geosciences  
Delft University of Technology

### PROFESSIONAL EXPERIENCE

2002 – 2011 Assistant Professor – Water Resources Management (CEG, DUT)  
1999 – 2005 PhD research – Water Resources Management Group (CE, DUT)  
1999 – 2002 Assistant Professor – Coordinator of Civil Engineering Project Education (CE, DUT)  
1997 – 1999 Researcher – Education and Didactics Group (Technology and Society, DUT)  
1995 – 1997 Researcher – Irrigation Group (Environmental Sciences, Wageningen University)  
1994 – 1995 Coordinator – Research Group on Underdevelopment, Wageningen

**PH.D. 2005** Delft University of Technology. Technical Sciences (irrigation and history of technology). Thesis: Prescribing perfection. Emergence of an engineering irrigation design approach in the Netherlands East Indies and its legacy, 1830 – 1990. Prof.ir. Brouwer and Prof.dr.ir. Lintsen.  
(<http://repository.tudelft.nl/view/ir/uuid%3A7d332642-d106-494e-a2aa-0e1e83e6c7b3/>)

**M.Sc. 1993** Wageningen University. Irrigation Engineering. Majors: irrigation, history, philosophy. Minor: hydraulic engineering

## PUBLICATIONS

### *Books and edited volumes*

1. Ertsen M.W., Mauch C. and Russell E. (eds) 2016 Molding the planet. Human niche construction at work. Rachel Carson Center Perspectives, Transformations in Environment and Society, Munich, Germany
2. Ertsen M.W. 2016 Improvising planned development on the Gezira Plain, Sudan, 1900-1980, Palgrave MacMillan, New York, USA
3. Lonnquest J., Toussaint B., Manous Jr. J. and Ertsen M.W. (eds) 2014 Two centuries of experience in water resources management. A Dutch-US retrospective. Institute for Water Resources, US Army Corps of Engineers, Rijkswaterstaat, Ministry of Infrastructure and the Environment, Alexandria, Virginia
4. Ertsen M.W. 2010 Locales of happiness. Colonial irrigation in the Netherlands East Indies and its remains, 1830 – 1980, VSSD Press, Delft

### *Book chapters and journal articles*

1. Ertsen M.W. (accepted) A leak on the irrigation system may not be seen. How to connect daily human agency and long term effects in irrigation, in: Rost S. (ed) 2020 Irrigation reconsidered – its function in early state societies, Oriental Institute of the University of Chicago
2. Ngugi K.N., Gichaba C.M., Kathumo V.M. and Ertsen M.W. 2020 Back to the drawing board. Assessing siting guidelines for sand dams in Kenya. Sustainable Water Resources Management 6, Article 58
3. Ngugi K.N., Mureithi S.M., Gichaba C.M. and Ertsen M.W. 2020 Influence of distance to water source on socio-economic factors in Tiva catchment, Kitui County. International Journal of Political Science and Development, 8(3)121-129
4. Singirankabo U.A. and Ertsen M.W. 2020 Relations between land tenure security and agricultural productivity: Exploring the effect of land registration. Land 9:138
5. Farrokhzadeh S, Hashemi Monfared SA, Azizyan G, Sardar Shahraki A, Ertsen MW and Abraham E 2020 Sustainable water resources management in an arid area using a coupled optimization-simulation modeling. Water, 12(3)885
6. Hein C., van Schaik H., Six D., Mager T., Kolen J., Ertsen M.W., Nijhuis S. and Verschuure G.A. 2020 Introduction: Connecting water and heritage for the future. in C Hein (ed.), Adaptive strategies for water heritage: Past, present and future. Springer, Cham, Switzerland, pp1-18
7. Intriago Zambrano J.C., Van Dijk R., Michavila J., Arenas Pinilla E., Diehl J.-C. and Ertsen M.W. 2020 Co-creation of affordable and clean pumped irrigation for smallholders: Lessons from Nepal and Malawi. Water Supply. ws2020052
8. Intriago Zambrano J.C., Michavila J., Arenas Pinilla E., Diehl J.-C. and Ertsen M.W. 2019 Water lifting water: A comprehensive spatiotemporal review on the hydro-powered water pumping technologies. Water 11(8)1677
9. Kaptijn E. and Ertsen M.W. 2019 'All sunshine makes a desert'. Building interdisciplinary understanding of survival strategies of ancient communities in the arid Zerqa Triangle, Jordan Valley. Journal of Arid Environments, 163, 114–126
10. Tianduowa Z., Woodson K.C. and Ertsen M.W. 2018 Reconstructing Ancient Hohokam Irrigation Systems in the Middle Gila River Valley, Arizona, United States of America. Human Ecology 46: 735-746
11. Ertsen M.W. 2018 Quoting Gandhi, or how to study ancient irrigation when the future depended on what one did today. In: Yijie Zhuang and Mark Altaweel: Water Societies and Technologies from the Past and Present, UCL Press, 289-30

12. Ertsen M.W. 2018 Dutch irrigation engineers and their (post-) colonial irrigation networks. In: Pretel D. and Camprubí L. *Technology and Economic Globalisation: Networks of Experts in World History*, Palgrave, 283-312
13. Ertsen M.W. 2018 Discussion of "Perceptual models of uncertainty for socio-hydrological systems: a flood risk change example", *Hydrological Sciences Journal* 63, 1198-2000
14. Ertsen M.W. and Wouters K. 2018 The drop that makes a vase overflow: Understanding Maya society through daily water management. *WIREs Water*, 5
15. Ertsen M.W. and Ankersmit W. 2017 De Romijn meetoverlaat, In: Van Woerkom P.Th.L.M. (ed.) *175 jaar TU Delft. Erfgoed in 33 verhalen*, Histechnica: Vereniging voor Geschiedenis der Techniek en Erfgoed TUD, 47-51
16. Ertsen M.W. 2016 Friendship is a slow ripening fruit. An agency perspective on water, values, and infrastructure, *World Archaeology* 48, 500-516
17. Pramana K.E.R. and Ertsen M.W. 2016 Towards systematic planning of small-scale hydrological intervention-based research, *Hydrology and Earth Systems Science*, 20, 4093-4115
18. Ertsen M.W. 2016 Colonial and post-colonial irrigation efforts in the Office du Niger, Inner Delta of the Niger, 1900-2000, in: Tvedt T. and Oestigaard T. (eds) *Food and Water. Africa in a Global Context*, Taurus, London, 231-250
19. Ertsen M.W. 2016 A matter of relationships: Actor-networks of colonial rule in the Gezira irrigation system, Sudan. *Water Alternatives* 9(2)203-221
20. Wang W., Ertsen M.W., Svoboda M.D. and Hafeez M. 2016 Propagation of Drought: From Meteorological Drought to Agricultural and Hydrological Drought, *Advances in Meteorology*, Volume 2016, 1-5
21. Zhu T., Ertsen M.W. and Van de Giesen N.C. 2015 Long term effects of climate on Human adaptation in the Middle Gila River Valley, Arizona, America. *Water History*, 7(4)511-531
22. Ertsen M.W. and Kaptijn E. 2015 A narrow place can contain a thousand friends. Irrigation as a response to climate in the Zerqa triangle, Jordan. In: Kerner S., Dann R. and Bangsgaard P.J. (eds) *Climate and Ancient Societies*, Museum Tusculanum Press, Copenhagen, 137-155
23. Ertsen M.W. 2014 Step after step the ladder is ascended. Human agency in irrigated (anti) landscapes. In: Nye D. and Elkind S. (eds) *The Anti-Landscape*, Nr. 1 *Studies in Environmental Humanities*, Rodopi, Amsterdam, 45-60
24. Ertsen M.W. 2014 A poor workman blames his tools or how irrigation systems structure human actions. In: Casella E., Evans G., Harvey P., Knox H., Mclean C., Silva E., Thoburn N. and Woodward K. (eds) *Objects and Materials. A Routledge Companion*, Routledge, 40-49
25. Pande S., Ertsen M.W. and Sivapalan M. 2014 Endogenous technological and demographic change under increasing water scarcity, *Hydrology and Earth Systems Sciences*, 18, 3239-3258
26. Pande S. and Ertsen M.W. 2014 Endogenous change: on cooperation and water in ancient history, *Hydrology and Earth Systems Sciences*, 18, 1745-1760
27. Ertsen M.W., Murphy J.T., Purdue L.E. and Zhu T. 2014 A journey of a thousand miles begins with one small step. Human agency, hydrological processes and time in socio-hydrology, *Hydrology and Earth Systems Sciences* 18, 1369-1382
28. Ertsen M.W. 2012 Modelling human agency in ancient irrigation. In: Bertonecello F. and Braemer F. (eds) *2012 Variabilites environnementales, mutations sociales: Nature, Intensités, Échelles et Temporalités des changements*, 199-209
29. Kazmi S.I., Ertsen M.W. and Asi M.R. 2012 The impact of conjunctive use of canal and tube well water in Lagar irrigated area, Pakistan. *Physics and Chemistry of the Earth*, 47-48, 86-98
30. Swiech T., Ertsen M.W. and Pereyra C.M. 2012 Estimating the impacts of a reservoir for improved water use in irrigation in the Yarabamba region, Peru. *Physics and Chemistry of the Earth*, 47-48, 64-75

31. Wilkinson T.J., Boucharlat R., Ertsen M.W., Gillmore G., Kennet D., Magee P., Rezakhani K. and De Schacht T. 2012 From human niche construction to imperial power: long-term trends in ancient Iranian water systems, *Water History*, 4, 155-176
32. Ertsen M.W. 2012 Irrigation and landscape: an interdisciplinary approach. In: Kluiving S.J. and Guttmann-Bond E.B. (eds) *Landscape Archaeology between Art and Science – From a multi- to an interdisciplinary approach*, Landscape & Heritage Series, Amsterdam University Press, Amsterdam, 45-58
33. Ertsen M.W. 2012 Understanding irrigation as a response to climate in the Zerqa Triangle, Jordan – A modelling approach. In : Matthews R. and Curtis J. (eds) 2012 *Proceedings of the 7th International Congress on the Archaeology of the Ancient Near East*, 12-16 April 2010, the British Museum and UCL, London. Volume 1: *Mega-cities & Mega-sites; The Archaeology of Consumption & Disposal; Landscape, Transport & Communication*. Harrassowitz Verlag, Wiesbaden, 725-738
34. Ertsen M.W. 2011 Manneken Pis: oldest citizen of Brussels and first global villager. In: Hynynen, Juuti and Katko (eds) *Water fountains in the cityscape*, Kansas City, APWA, 42-45
35. Ertsen M.W. 2011 "Een beter systeem is later nooit gevonden". De opleiding tot irrigatie-ingenieur aan de Technische Hogeschool in Delft, 1850-1980, *Tijdschrift voor Waterstaatsgeschiedenis* 20, 24-38
36. Ertsen M.W. 2011 "A not completely satisfactory attempt" – peak discharges and rainfall-runoff relations for Javanese rivers between 1880 and 1940, *History of Geo- and Space Sciences*, 2, 39-55
37. Ertsen M.W. 2010 Structuring properties of irrigation systems. Understanding relations between humans and hydraulics through modeling. *Water History*, 2, 165-183
38. Ertsen M.W. 2010 An irrigated landscape in Argentina. *Landscape Archaeology and Ecology*, 8, 47-56
39. Ertsen M.W. 2009 Sluisjes in Indonesië en India. Irrigatietechniek als materialisatie van koloniale politiek. In: Bolkestein F., Van den Hoven J., Van de Poel I. en Oosterlaken I. (eds) 2009 *De politiek der dingen. De verwevenheid van ethiek en technologie*. Damon, 79-91
40. Ertsen M.W. 2009 From central control to service delivery? Reflections on irrigation management and expertise, *Irrigation and Drainage*, 58, S87-S103
41. Orient Quilis R., Hoogmoed M., Ertsen M.W., Foppen J.W., Hut R. and De Vries A. 2009 Measuring and modelling hydrological processes of sand-storage dams on different spatial scales, *Physics and Chemistry of the Earth*, 34, 289-298
42. Ertsen M.W. and Melosi M. 2009 Preface, *Physics and Chemistry of the Earth*, 34, 107-108
43. Ertsen M.W. and Van Nooijen R. 2009 The man swimming against the stream knows the strength of it. *Hydraulics and social relations in an Argentinean irrigation system*, *Physics and Chemistry of the Earth*, 34, 2000-2008
44. Ertsen M.W. and Van der Spek J. 2009 Modeling an irrigation ditch opens up the world. *Hydrology and hydraulics of an ancient irrigation system in Peru*, *Physics and Chemistry of the Earth*, 34, 176-191
45. Ertsen M.W. and Hut R. 2009 Two waterfalls do not hear each other. *Sand-storage dams, science and sustainable development in Kenya*, *Physics and Chemistry of the Earth*, 34, 14-22
46. Ertsen M.W. 2008 Controlling the farmer. *Irrigation encounters in Kano, Nigeria*. *TD: The Journal for Transdisciplinary Research in Southern Africa*, 4, 209-236
47. Ertsen M.W. 2008 Waardig voortbouwen in de aangegeven richting. *Ontwikkeling en voortbestaan van een Nederlands-Indische irrigatiebenadering*. *Tijdschrift voor Waterstaatsgeschiedenis*, 17, 22-31
48. Ertsen M.W. 2008 Evolution et continuité de l'approche indo-néerlandaise en matière d'irrigation, *Deshima. Revue française des mondes néerlandophones*, 2, 175-195

49. Ertsen M.W. and Ravesteijn W. 2008 Living water. The development of irrigation technology and waterpower. In: Ravesteijn W. and Kop J. (eds) 2008 For profit and prosperity. The contribution made by Dutch engineers to Public Works in Indonesia 1800-2000, Aprilis, Zaltbommel, KITLV, Leiden, 239-271
50. Ertsen M.W. 2008 Indigenous or international. The evolution and significance of East Indian civil engineering. In: Ravesteijn W. and Kop J. (eds) 2008 For profit and prosperity. The contribution made by Dutch engineers to Public Works in Indonesia 1800-2000, Aprilis, Zaltbommel, KITLV, Leiden, 381-401
51. Hut R., Ertsen M.W., Joeman N., Vergeer N., Winsemius H. and Van de Giesen N.C. 2008 Effects of sand storage dams on ground water levels with examples from Kenya, *Physics and Chemistry of the Earth*, 33, 56-66
52. Ertsen M.W. 2007 Irrigation design in the Netherlands East Indies, *Design Research*, 5, 449-469
53. Ertsen M.W., Prieto D. and Van de Giesen N. 2007 Hydrological interdependencies of irrigation systems and river catchment. In: Schumann A. and Pahlow M. (eds) 2007 Reducing the vulnerability of societies to water related risks at the basin scale. *International Association of Hydrological Sciences*, 317, 3-8
54. Ertsen M.W. and Van der Spek J. 2007 Historical analysis of irrigation and environment in two arid regions in South America. In: Van de Giesen N.C., Jun X., Rosbjerg D. and Fukushima Y. (eds) 2007 Changes in water resources systems: methodologies to maintain water security and ensure integrated management. *International Association of Hydrological Sciences, Publication 315*, 71-77
55. Ertsen M.W. 2007 The development of irrigation design schools or how history structures human action, *Irrigation and Drainage*, 56, 1-19
56. Ertsen M.W. and Ven F. van de 2007 Urban water management. In: Munier N. (ed) *Handbook on Urban Sustainability*, Springer, Dordrecht, 511-566
57. Ertsen M.W. 2006 Aspects of Irrigation development in the Netherlands East Indies. *TD: Journal for Transdisciplinary research in Southern Africa*, 2, 47-7
58. Ertsen M.W. 2006 Colonial Irrigation: Myths of Emptiness. *Landscape Research*, 31, 147 - 168
59. Ertsen M.W. 2005 Irrigation design in the Netherlands East Indies: the Tjipoenegara system in West Java. In: Coopey R., Fahlbusch H., Hacho N. and Jansky L. 2005 A history of water issues. *Lessons to learn*, United Nations University, Tokyo
60. Ertsen M.W., Biesbrouck B., Postma L., and Westerop M. van 2005 Participatory design of sand storage dams. In: Goessling T., Jansen R.J.G. and Oerlemans L.A.G. (eds) 2005 *Coalitions and Collisions*, Wolf Publishers, Nijmegen
61. Ertsen M.W., Prieto D., Pradhan T.M.S. and Angella G. 2005 Historical analysis of water flows in the Río Dulce catchment. In: De Conceicao M. & Brebbia C. (eds) 2005 *Water Resources Management*, Witt Press
62. Ertsen M.W. and Ten Horn van Nispen M.L. 2005 Deconstructing Dutch Discourses. Modern flood management policies in a historical perspective. In: Ohlig C. (ed) 2005 *Integrated Land and Water Resources Management in history*. Deutschen Wasserhistorischen Gesellschaft, Sonderband 2, Siegburg
63. Ertsen M.W., Kooistra J. and Stouffs R. 2005 Active learning and the process of science: beyond information skills. In: De Graaff E., Saunders-Smits G.N. and Nieweg M.R. (eds) 2005 *Research and practice of active learning in engineering education*. Pallas Publications, Amsterdam University Press
64. Ertsen M.W. and Ravesteijn W. 2004 Levend water. In: Ravesteijn W. en Kop J. (eds) 2004 *Bouwen in de archipel. Burgerlijke openbare werken in Nederlands-Indië en Indonesië 1800-2000*, Walburg, Zutphen

65. Ertsen M.W. 2004 Inheems of internationaal. In: Ravesteijn W. en Kop J. 2004 (eds) *Bouwen in de archipel. Burgerlijke openbare werken in Nederlands-Indië en Indonesië 1800-2000*, Walburg, Zutphen
66. Ertsen M.W. 2002 Irrigation traditions, roots of modern irrigation knowledge. *International Journal of Technology, Policy and Management*, 4, 387-406
67. Ertsen M.W. 2002 The technical and the social in engineering education. In: Frascara J. (ed) *Design and the social sciences. Making connections*. Taylor and Francis, London, 146-157
68. Ertsen M.W. 1998 Water distribution on Java. A revision of a traditional perspective. *Indonesian Environmental History Newsletter*, 11, Leiden

#### *Editorships*

1. Main editor *Water History*, journal of the International Water History Association, Springer
2. Member editorial board *History of Geo- and Space Sciences (HGSS)*, Copernicus GmbH
3. Guest editor *Physics and Chemistry of the Earth*, special issue on *Water History* (Vol. 34, no. 3, January 2009, with Prof. Martin Melosi)
4. Guest editor *TD: Journal for Transdisciplinary research in Southern Africa* (Vol. 4-1, July 2008)

#### *Invited/sponsored presentations*

1. Ertsen M.W. 2020 Guest session on designing water systems, ICWD Summer School, Czech Technical University, Prague
2. Ertsen M.W. 2020 Erfgoed en macht: water als de drager van de maatschappij? Netwerkbijeenkomst Stichting WaterHeritage, 7 februari 2020, Deventer
3. Ertsen M.W. 2020 Studying change: How a theoretical perspective feeds technology development research, JDS International Seminar, University of Tsukuba, January 2020
4. Ertsen M.W. 2019 Improvising planned development on the Gezira Plain, Sudan, 1900-1980. Workshop 'Places of Progress? Re-evaluating the sites of high tech controversies.' Haus der Wissenschaft, Braunschweig, Germany, September 2019
5. Ertsen M.W. 2019 Agent-based Earth Sciences: from ancient water to climate modelling? Joint Research Day – GRS/Water Management, Delft, October 9 2019
6. Ertsen M.W. 2019 Sleeping with Mosquitoes in the Room: One Dutch Irrigation Engineer and his (Post-)colonial Network(s). Workshop 'Writing Global History of Technology from a Local Perspective: Stories from the South', Technical University Darmstadt, Germany, July 2019
7. Ertsen M.W. 2019 Gone water does mill again. Comparing How Two Irrigation-Based Societies Dealt with Climate. Workshop 'Climate and Society in Ancient Worlds, Diversity in Collapse and Resilience', Brussels, Belgium, May 2019
8. Ertsen M.W. 2019 Irrigation. Guest Lecture Graduate Seminar Water management in the Ancient World, Institute for the Study of the Ancient World, New York University, April 9 2019
9. Ertsen M.W. 2019 Werken volgens recept? Irrigatie in Nederlands Indië en Indonesië, Themadag Watermanagement, Stichting Indisch Erfgoed, Landgoed Bronbeek (Arnhem), February 17 2019
10. Ertsen M.W. 2018 Water in a changing city: Surabaya's water heritage issues. Symposium on Water Heritage in Asian Cities, Shanghai, China
11. Ertsen M.W. 2018 Development Rocks. Delft Global Network, Delft, the Netherlands
12. Ertsen M.W. 2018 Integrated Water Management. On research and education in two areas/regions. Symposium IWRM, SEAD and W4GR projects, Kigali, Rwanda
13. Ertsen M.W. 2018 Everywhere is walking distance if you have the time. Viscous Space conference, Delft, the Netherlands
14. Ertsen M.W. 2017 Modelleren van prehistorische irrigatie. Symposium van de Vereniging voor Waterstaatsgeschiedenis, Delft, the Netherlands

15. Ertsen M.W. 2017 Risk-taking versus sure-thing-taking. Changes in Hohokam irrigation over time. Geography Seminar, University of Birmingham, UK
16. Ertsen M.W. 2017 Risk-taking versus sure-thing-taking. Changes in Hohokam irrigation over time. Study School on Risk, Crisis and Disaster Management, University of Leicester, UK
17. Ertsen M.W. 2017 Invited comment for the Earth resilience session, Resilience 2017 Conference, Stockholm, Sweden
18. Ertsen M.W. 2017 Leaving all the answers blank and getting 100. Hydrological (un)certainty in Dutch colonial irrigation. Workshop "Estimated Truths: Water, Science, and the Politics of Approximation" Max Planck Institute for the History of Science, Berlin, Germany
19. Ertsen M.W. 2017 On archaeohydrology, Conference on the Archaeohydrology of Oases and Cities. Water Management, Climate, Technological Change and Social Contexts, German Archaeological Institute (Orient-Section and Research Cluster 2), Berlin, Germany
20. Ertsen M.W. 2017 Great things are not done by impulse. Human agency and complexity in the Anthropocene. LOOPS-3 Workshop "Transformative change and social-ecological resilience in the World-Earth system: modeling, concepts and data", Potsdam Institute for Climate Impact Research
21. Ertsen M.W. 2017 Sometimes it works, sometimes it fails. Improvising colonial rule in the Gezira irrigation system, Sudan. Research seminar series in the history of science, technology and medicine, Kings College London, UK
22. Ertsen M.W. 2016 Material inheritances: the past in the present, International Symposium on Environmental Policy, University of Tsukuba, Japan
23. Ertsen M.W. 2016 Everywhere is walking distance if you have the time. On space and time in archaeology, Workshop On Time - Dimensions of marine and coastal global environmental change, Swedish Secretariat for Environmental Earth System Sciences (SSEESS), Integrated History and Future of People on Earth (IHOPE), Earth System Governance Project (ESGP), Stockholm, Sweden
24. Ertsen M.W. 2016 Time is a game. On Latourian Agent-Based Modeling. Workshop Complex Systems in the Social Sciences & Humanities, International Institute for Applied Systems Analysis (IIASA), Integrated History and Future of People on Earth (IHOPE), Vienna, Austria
25. Ertsen M.W. 2016 A heavy burden does not kill on the day it is carried. On space and time in the IHOPE project. Workshop Integrated History and Future of People on Earth (IHOPE), Landscape Archaeology Conference 2016, Uppsala, Sweden
26. Ertsen M.W. 2016 Improvising Empire: the Gezira Scheme in Sudan in the 20<sup>th</sup> century. Keynote Speech Conference Empires of Water: Water Management and Politics in the Arid Regions of China, Central Eurasia and the Middle East (16th-20th centuries), Hong Kong
27. Ertsen M.W. 2016 Quoting Gandhi, or how to study ancient irrigation when the future depended on what one did today. Workshop Comparative Water Technologies and Management: Pathways to Social Complexity and Environmental Change, University College London, UK
28. Ertsen M.W. 2016 The Good, the Bad, and the Ugly in Ancient Water Systems. Comparative remarks along the axes of small- large and dry-wet. Session The Contributions of Vernon Scarborough in Water Management and Sustainability, Part 1: Global and Comparative, Society for American Archaeology, Orlando, USA
29. Ertsen M.W. 2016 A leak on the irrigation system may not be seen. How to connect daily human agency and long term effects in irrigation. Conference Irrigation reconsidered – its function in early state societies, Oriental Institute of the University of Chicago, USA
30. Ertsen M.W. 2015 Arid arenas of the mind. Exploring Deserts, Irrigation and Marginality. Conference Global Deserts: Environmental History in the Arid Lands, University of Arizona, Tucson; Temple University, Philadelphia; University of California, Davis, USA; Rachel Carson Center for Environment and Society, LMU Munich, Germany

31. Ertsen M.W. 2015 "Water is the driver of human nature". Human agency and irrigated landscapes, or why Da Vinci was partially correct. Conference 'Manufacturing Landscapes. Nature and Technology in Environmental History', Center for Ecological History, Renmin University of China and Rachel Carson Center for Environment and Society, LMU Munich
32. Ertsen M.W. and Junier S.J. 2015 "An ant's nest could bring down a hill". The Material in Actor Network Theory. Workshop Bruno Latour and Environmental Governance, University College London, UK
33. Ertsen M.W. 2015 People, Protection and Parameters: comparing flooding in the UK and the Netherlands. Gresham College, London, UK
34. Ertsen M.W. 2014 European colonialism, irrigation and water systems. Workshop Water and Food – Africa in a Global Context, Nordic Africa Institute, Uppsala, Sweden
35. Ertsen M.W. 2014 Simplicity as the sign of truth. On qanat technology. Workshop on Qanāts: archaeology and environments, University of Durham, UK
36. Ertsen M.W. 2014 A thousand miles in small steps. Human agency and water control in ancient societies. Workshop Watermanagement, Excellence Cluster Topoi, Berlin, Germany
37. Ertsen M.W. 2014 'A White Men's Enterprise.' Negotiating Irrigation and development on the Gezira Plain, Sudan, 1900-1980. Luchtime Colloquium Rachel Carson Center, Munich, Germany, <http://www.youtube.com/watch?v=j4vvn-hPcAM>
38. Ertsen M.W. 2013 Never cut what you can untie. Colonial irrigation development as a metaphor. International Symposium on Environmental Policy, University of Tsukuba, Japan
39. Ertsen M.W. and T.J. Wilkinson 2013 A Tombstone as Diploma? Why long-term trends in ancient water systems matter. Goldfarb Center International Conference Pressing Issues: The History of Technology Meets Public Policy, Colby College and Belgrade, Maine, USA
40. Ertsen M.W. 2013 Colonial empire on the Nile: the Gezira Scheme. Workshop Between Human Niche Construction and Imperial Power: Long-term trends in Ancient Water Systems, Delft University of Technology and Durham University, Delft, the Netherlands
41. Ertsen M.W. 2012 Keeping water in one's mouth? Workshop Useful and Reliable Knowledge in the East and the West, London School of Economics, UK – not given due to travel problems
42. Ertsen M.W. 2012 Imperial water systems as improvisation. Workshop on Human niche construction and imperial power, University of Durham, UK
43. Ertsen M.W. 2012 Colonial exchanges and post-colonial continuities in irrigation development, RiBaGo workshops River Basin Management: Adaptive, Collaborative, Integrated.. or just Chaotic? Cambridge University, UK
44. Ertsen M.W. 2011 Modelling human agency in ancient irrigation. Colloque International d'Archéologie et d'Histoire d'Antibes on Variabilités environnementales, mutations sociales : natures, intensités, échelles et temporalités des changements, Antibes, France
45. Ertsen M.W. and De Schacht T. 2011 Hydraulic Analysis of the Sad-i Didegan Dam Site and System (Pasargadae, Fars, Iran). Workshop From Human Niche Construction to Imperial Power: Long-Term Trends in Ancient Iranian Water Systems, Centre for Iranian Cultural Studies (CICS), Department of Archaeology, Durham University, UK
46. Ertsen M.W. 2011 Step after step the ladder is ascended. The delicate balance between landscape and anti-landscape in irrigation. Workshop The Anti-Landscape, Center for American Studies, University of Southern Denmark, Odense, Denmark
47. Ertsen M.W. 2009 Nothing but stored environment. Structuring properties of irrigation systems. Workshop on Water and Power, University of Durham, UK
48. Ertsen M.W. 2009 The dream destroying reality. Hydraulic models in archaeology. Workshop Modelling Spaces – Modifying Societies, Graduate Program Topology of Technology, Darmstadt University of Technology, Germany
49. Participation in the 2005 workshop on a comparative history on water management in the Netherlands and the United States, USACE/RWS, The Hague, The Netherlands



*Book reviews*

1. Ertsen M.W. 2020 Review Jan Renette, *Mijn Holland. Tussen land en zee*. In: *Tijdschrift voor Waterstaatsgeschiedenis* 29(1)29-30
2. Ertsen M.W. 2020 Review Loek Zoon (red.), *Broek en Waterland. Regionale samenwerking en conflicten, 1281-1811*. In: *Holland, Historisch Tijdschrift*, <http://tijdschrift-holland.nl/recensie-broek-en-waterland/>
3. Ertsen M.W. 2019 Review of Eric H. Ash, *The draining of the Fens: Projectors, popular politics, and state building in early modern England*. In: *Agricultural History Review*, Volume 68 (2020) Book Reviews part 1, pp123-125
4. Ertsen M.W. 2019 Review Arts J. et al (red.), *Builders and planners. A history of land-use and infrastructure planning in the Netherlands*; Van der Ham W. et al (red.), *Modern wereldwonder. Geschiedenis van de Deltawerken*. In: *Tijdschrift voor Waterstaatsgeschiedenis* 28(2)120-122
5. Ertsen M.W. 2016 Review Han Meyer, *De Staat van de Delta. Waterwerken, stadsontwikkeling en natievorming in Nederland*. In: *Tijdschrift voor Waterstaatsgeschiedenis* 25(2)72-73
6. Ertsen M.W. 2016 Review Hillebrand Ehrenburg en Marcel Meyer, *Bouwen aan de Wilde Kust. Geschiedenis van de civiele infrastructuur van Suriname tot 1945*. In: *Tijdschrift voor Waterstaatsgeschiedenis* 25(2)73-74
7. Ertsen M.W. 2016 Review Gandy M. 2014 *The Fabric of Space. Water, modernity, and the urban imagination*, In: *Technology and Culture* 57(2)684-685
8. Ertsen M.W. 2015 Review Burgers T. 2014 *Nederlands grote rivieren. Drie eeuwen strijd tegen overstromingen*. In: *Tijdschrift voor Waterstaatsgeschiedenis* 24(1)49-50
9. Ertsen M.W. 2014 Review Mithen S. (with Sue Mithen) 2012 *Thirst. Water and Power in the Ancient World*. In: *Journal of Field Archaeology* 39(4)322-324
10. Ertsen M.W. 2013 Review Coates P. 2013 *A Story of Six Rivers. History, Culture and Ecology*. In: *Environment and Planning D*, <http://societyandspace.com/reviews/reviews-archive/coates/>
11. Ertsen M.W. 2013 Review Mikhail A. 2011 *Nature and Empire in Ottoman Egypt: An Environmental History*. In: *Agricultural History* 87(2)247
12. Ertsen M.W. 2012 Review Rotherham I. 2010 *Yorkshire's forgotten fenlands*. In: *Water History* 4(3)271-272
13. Ertsen M.W. 2012 Review Biggs D. 2010 *Quagmire: Nation-Building and Nature in the Mekong Delta*. In: *Technology and Culture* 53(4)944-945
14. Ertsen M.W. 2011 Review of Fransen A. 2011 *Dijk onder spanning. De ecologische, politieke en financiële geschiedenis van de Diemerdijk bij Amsterdam, 1591-1864*, In: *Tijdschrift voor Waterstaatsgeschiedenis* 20(2)88-92
15. Ertsen M.W. 2011 Review Teisch J.B. 2011 *Engineering Nature. Water, Development, and the Global Spread of American Environmental Expertise*. In: *H-Environment*, September 2011
16. Ertsen M.W. 2011 Review Linton J. 2010 *What is water. The history of a modern abstraction*. In: *Water History* 3(1)63-66
17. Ertsen M.W. 2011 Review Solomon S. 2010 *Water. The epic struggle for wealth, power, and civilization*. In: *Water History* 3(1)63-66
18. Ertsen M.W. 2011 Review Barca S. 2010 *Enclosing water: nature and political economy in a Mediterranean valley, 1796-1916*. In: *Water History* 3(1)67-68
19. Ertsen M.W. 2011 Review Lawrence France R. (ed) 2007 *Wetlands of mass destruction. Ancient presage for contemporary ecocide in southern Iraq*. In: *Water History* 3(1)69-70
20. Ertsen M.W. 2010 Review Mukerji C. 2009 *Impossible engineering. Technology and territoriality on the Canal du Midi*. *Studies in cultural sociology*. In: *Water History* 2(1)81-82

21. Ertsen M.W. 2010 Review Rossi C., Russo F. and Russo F. 2009 Ancient engineers' inventions. Precursors of the present. *History of Mechanism and Machine Science* 8. In: *Water History* 2(1) 83-84
22. Ertsen M.W. 2009 Review of Juuti P.S., Katko T.S. and Vuorinen H.S 2007 *Environmental History of Water*. In: *Scandinavian Economic History Review*, 57(1)121-122
23. Ertsen M.W. 2007 Een Hollandse held. Review Van der Ham W. 2007 *Verover mij dat land. Lely en de Zuiderzeewerken*. In: *Binnenlands Bestuur*, 45(28)39.
24. Ertsen M.W. and Leidelmeijer M. 1999 Review Ravesteijn W. 1997 *De zegenrijke heeren der wateren. Irrigatie en staat op Java, 1832-1942*. In: *Koninklijk Nederlands Historisch Genootschap, Bijdragen en mededelingen betreffende de geschiedenis der Nederlanden*, 114-2, 294-295

#### *Other*

1. Ertsen M.W. 2020 *Remains of privileged spaces. Landscapes of power in Delfland, the Netherlands*. Philosophy and Human-Technology Relations, Enschede, The Netherlands
2. Ertsen M.W. 2020 Chair and organizer of Webinar *Water Heritage: History and Museums*, IWhA, IHE, Water Museums Network
3. Ertsen M.W. 2020 *Water quality policies in the Brantas River Basin, Indonesia*. European Geosciences Union General Assembly, Vienna, Austria
4. Intriago Zambrano JC, van Dijk R, van Beusekom M, Diehl J-C and Ertsen MW 2020 *Smallholder: an inconvenient label in the adoption of water pumping technologies?* EGU, Vienna, Austria
5. Streefkerk I., Winsemius H., van den Homberg M., Werner M., Comes T., Ertsen M.W., Mittal N., and Gumbi G. 2020 *Linking Drought Forecast Information to Smallholder Farmer's Strategies and Local Knowledge in Southern Malawi*. EGU, Vienna, Austria
6. Ertsen M.W. 2019 *Convincing fantasy cannot become dated. From colonial irrigation narratives of progress to political claims of irrigation heritage*. Workshop *The Stigma of "Underdevelopment" in Heritage Production*, October 11th 2019, TU Delft
7. Ertsen M.W. 2019 *Sleeping with Mosquitoes in the Room: One Dutch Irrigation Engineer and his (Post-)colonial Network(s)*. 3rd World Congress of Environmental History, Florianopolis, Brazil, July 2019
8. Intriago Zambrano, JC, Michavila, J, Arenas, E, Diehl, J-C & Ertsen, M 2019, *'DARE-TU Project: Co-creation of Affordable and Clean Pumped Irrigation for Smallholders'* 11th Eastern European Young Water Professionals Conference IWA, Prague, Czech Republic, pp. 315-316.
9. Intriago Zambrano, JC, van Dijk, RW, Michavila, J, Arenas, E, Diehl, J-C & Ertsen, M 2019, *Co-creation of Affordable and Clean Pumped Irrigation for Smallholders: Lessons from Nepal and Malawi*. in *Conference Proceedings: Water for All - Water for Nature, Reliable Water Supply, Wastewater Treatment and Reuse*. University of Chemistry and Technology, Prague, Prague, Czech Republic, pp. 466-473, 11th Eastern European Young Water Professionals Conference IWA YWP, Prague, Czech Republic, 1/10/19
10. Farrokhzadeh, S, Abraham, E & Ertsen, M 2019, *'A Multi-Objective Approach for the Analysis of a Water-Food-Ecosystems Nexus at Basin Scale'* EGU General Assembly, Vienna, Austria
11. Lang D. and Ertsen M.W. 2019 *Irrigation landscape and the evolution of irrigation systems in south Mesopotamia*. EGU, Vienna, Austria
12. Ertsen M.W. 2019 *Agencies of Empires – a comparative history of the importance of daily activities in building imperial power*. Workshop *"The Persian Empire, the Social Sciences, and Ancient Historiography"*, Centre of Excellence in Changes in Sacred Texts and Traditions, Centre of Excellence in Ancient Near Eastern Empires. University of Helsinki, Finland
13. Ertsen M.W. 2018 *Modelling Mesopotamia. Agent-based modelling for emerging power relations*. American Schools of Oriental Research, Denver, USA

14. Ertsen M.W., Setyorini D., Van Beusekom M., Boogaard F., Arisandi P. and Knegt J. 2018 Mainstreaming water quality in River Basin Management in the Brantas River Basin, Indonesia. Water Science for Impact, Wageningen University, The Netherlands
15. Intriago J.C., Ertsen M.W., Diehl J.C., Michavila J. and Arenas E. 2018 Co-creation of affordable irrigation technology: the DARE-TU project. Water Science for Impact, Wageningen University, The Netherlands
16. Ertsen M.W. 2018 Modelling Mesopotamia. The production of emerging power relations in an irrigated landscape. Symposium CE-TAG 2018 The Production of Space and Landscape, Freiburg, Germany
17. Ertsen M.W. 2018 Modelling Mesopotamia. Landscapes of Power. Landscape Archaeology Conference 2018, Newcastle/Durham, UK
18. Murphy J.T. and Ertsen M.W. 2018 The very model of a modern archaeologist: Archaeohydrology and Modeling. Landscape Archaeology Conference 2018, Newcastle/Durham, UK
19. Ertsen M.W. 2018 Modelling Mesopotamia. Agent-based modelling for early agriculture. ASOR/EPHE-PSL European Symposium, Paris, France
20. Ertsen M.W. 2018 Emerging power in ancient Mesopotamia or: how we learned to refuse abstract power and love technology. International Conference on Human-Technology Relations: Post-phenomenology and Philosophy of Technology, University of Twente, The Netherlands
21. Ertsen M.W. 2018 Without small things the great is not great. Discussing water history or the paradox of an interdisciplinary field within a discipline. International Conference Writing Environmental History in the 21st century: Sources, Methods and Practices, Réseau Universitaire de Chercheurs en Histoire Environnementale, Lyon, France
22. Ertsen M.W. 2018 Introducing Archaeohydrology. 11<sup>th</sup> International Congress on the Archaeology of the Ancient Near East, Munich, Germany
23. Ertsen M.W. Theories and methods in water and archaeology. 11<sup>th</sup> International Congress on the Archaeology of the Ancient Near East, Munich, Germany
24. Ertsen M.W. 2018 Modelling Mesopotamia. Agent-based modelling for emerging power relations. British Association of Near Eastern Archaeology, Durham University, UK
25. Ertsen M.W. 2017 Youths in the future, elderly in the past, but ancestors in the present. Time and space in ancient near eastern irrigation. ASOR, Boston, USA
26. Ertsen M.W. 2017 Remains of privileged spaces. Stakeholders in coastal heritage, the Netherlands. III Portuguese Centre for Humanities (CHAM) International Conference Oceans and Shores: Heritage, People and Environment, Lisbon, Portugal
27. Xanthopoulou T., Düring B.S, Ertsen M.W. and Kolen J. 2017 Reconstructing historical agencies in an Omani irrigation system. Conference International Water History Association, Grand Rapids, USA
28. Ertsen M.W. 2017 Agencies of empire: comparing irrigated landscapes of colonial Sudan and the Assyrian Empire. Conference International Water History Association, Grand Rapids, USA
29. Ertsen M.W. 2017 Risk-taking versus sure-thing-taking. Changes in Hohokam irrigation over time, American Society for Environmental History, Chicago, USA
30. Ertsen M.W. 2017 Concepts and models of coupled systems. EGU, Vienna, Austria
31. Ertsen M.W. 2017 Relating archaeology and environmental history of the American past: the case of Hohokam irrigation. EGU, Vienna, Austria
32. Xanthopoulou T., Ertsen M.W., Düring B.S. and Kolen J. 2017 Using hydraulic modeling to simulate human interactions with water resources in an Omani irrigation system. EGU, Vienna, Austria
33. Ertsen M.W. 2017 The raw material of fiction. Empire building in water systems in the Ancient Near East, BANE, University of Glasgow, UK

34. Bouziotas D. and Ertsen M.W. 2017 Socio-hydrology from the bottom up: A template for agent-based modeling in irrigation systems, Hydrology and Earth System Science Discussions
35. Ertsen M.W. 2016 Nothing but Shapes and Variations. The Material in Actor Network Theory, Landscape Archaeology Conference 2016, Uppsala, Sweden
36. Ertsen M.W. 2016 Nothing but Shapes and Variations. The Material in Actor Network Theory, Conference Evidence On Trial: weighing the value of evidence in academic enquiry, policy and everyday life, Institute of Advanced Study, Durham University, UK
37. Ertsen M.W. 2016 Material agencies in ancient irrigation. Workshop Common Ground: Remote Sensing and Geophysics in Archaeology, LDE Centre for Global Heritage and Development, the Netherlands
38. Ertsen M.W. 2016 Small systems or large empires? Agency and structure in water systems in the Ancient Near East, 10th ICAANE, Vienna, Austria
39. Pramana K. E. R. and Ertsen M. W. 2016 Towards systematic planning of small-scale hydrological intervention-based research, HESS Discussions
40. Van Nooijen R, Ertsen M.W. and Kolechkina A. 2016 Graph theoretical stable allocation as a tool for reproduction of control by human operators. EGU, Vienna, Austria
41. Nong B.A., Ertsen M.W. and Schoups G. 2016 Combining Bayesian Networks and Agent Based Modeling to develop a decision-support model in Vietnam. EGU, Vienna, Austria
42. Ertsen M.W. 2016 How to connect daily human agency and long term effects in irrigation, ASEH, Seattle, USA
43. Ertsen M.W. 2015 The Hydraulic Landscape of Erbil, Kurdistan, ASOR, Atlanta, USA
44. Pramana K.E.R., Ertsen M.W. and Van de Giesen N.C. 2015 Towards systematic small-scale hydrological intervention-based research, HESS Discussions
45. Ertsen M.W. 2015 Getting everybody to clap at the same time. Tinkering with Gezira irrigation technology through time (1920-1950), Society for the History of Technology, Albuquerque, USA
46. Ertsen M.W. "Where there is no bridge the smallest plank is of great value". Water history as an interdisciplinary field, 16th International Conference of Historical Geographers, London, UK
47. Ertsen M.W. 2015 "An ant's nest could bring down a hill". On human agency and environment in colonial irrigation in the Gezira, Sudan, European Society for Environmental History, Versailles, France
48. Van Nooijen R.R.P., Ertsen M.W. and Kolechkina A. 2015 Drowning by numbers: excess water distribution in the Gezira irrigation scheme, 26th General Assembly International Union of Geodesy and Geophysics, Prague, Czech Republic
49. Ertsen M.W. 2015 Grand and small are relative terms, Conference IWHA, Delft, the Netherlands
50. M.W. Ertsen 2015 Interview on Colonialism and Irrigation. The Gezira Plain, Sudan. Rachel Carson Center, Munich, Germany, <https://www.youtube.com/watch?v=idpjOlbEqrw>
51. Ertsen M.W. 2015 The fierce ox becomes tame on strange ground, EGU, Vienna, Austria
52. Ertsen M.W., Murphy J. and Purdue L. 2015 Irrigation management, evolving canal Systems and social simulation in Hohokam society, Central Arizona, EGU, Vienna, Austria
53. Ertsen M.W., Strohschein S., Onencan A. and Van de Giesen N.C. 2015 Effects of a network of sand-storage dams on the hydrology on catchment scale, EGU, Vienna, Austria
54. Ngugi K., Ogindo H. and Ertsen M.W. 2015 Impact of land use changes on hydrology of Mt. Kilimanjaro. The case of Lake Jipe catchment, EGU, Vienna, Austria
55. Ngugi K. and Ertsen M.W. 2015 The value of milk in rangelands in Mandera, Kenya, EGU, Vienna, Austria
56. Ertsen M.W. 2015 "An orderly organization of village communities". Planners' dreams versus farmers' realities in the Gezira Scheme, Sudan, 1915-1980, ASEH, Washington DC, USA
57. Ertsen M.W. 2014 Analyzing canals and their possible functions in the EPAS Region, ASOR, San Diego, USA

58. Ertsen M.W. and Ur J.A. 2014 On canals, functions and options in North Kurdistan. 3rd Landscape Archaeology Conference, Rome, Italy
59. Ertsen M.W. and Wilkinson T.J. 2014 Human Niche Construction and Water Systems. 3rd Landscape Archaeology Conference, Rome, Italy
60. Ur J.A. and Ertsen M.W. 2014 The Erbil Plain Archaeological Survey (EPAS). 3rd Landscape Archaeology Conference, Rome, Italy
61. Zhu T. and Ertsen M.W. 2014 Examining the evolution of an ancient irrigation system: the Middle Gila River Canals. 3rd Landscape Archaeology Conference, Rome, Italy
62. Zoric A. and Ertsen M.W. 2014 Modelling daily action in Hohokam irrigation systems. 3rd Landscape Archaeology Conference, Rome, Italy
63. Ertsen M.W. and Wilkinson T.J. 2014 Understanding Long-Term Trends in Ancient Water Systems. 9th ICAANE, Basel, Switzerland
64. Ertsen M.W. and De Schacht T. 2014 "Wealth is Water". Modelling Water Control in Achaemenid Iran. 9th ICAANE, Basel, Switzerland
65. Ertsen M.W. 2014 A thousand miles in small steps. How to study human-induced changes on landscapes and vice versa, EGU, Vienna, Austria
66. Ertsen M.W. 2014 Human Niche Construction and Hydrology, EGU, Vienna, Austria
67. Zhu T. and Ertsen M.W. 2014 Examining the evolution of an ancient irrigation system: the Middle Gila River Canals, EGU, Vienna, Austria
68. Pande S., Ertsen M.W. and Sivapalan M. 2014 Endogenous technological and demographic change under increasing water scarcity, EGU, Vienna, Austria
69. Zhu T., Ertsen M.W. and Van de Giesen N.C. 2013 Long Term Effects of Climate on Human Adaptation in the Middle Gila River Valley, Arizona Archaeological Council, Mesa, Arizona
70. Pande S. and Ertsen M.W. 2013 Endogenous change: on cooperation and water in ancient history, HESS Special Issue: Predictions under change: water, earth, and biota in the Anthropocene
71. Pande S., Ertsen M.W. and Sivapalan M. 2013 Endogenous technological and population change under increasing water scarcity, HESS Special Issue: Predictions under change: water, earth, and biota in the Anthropocene
72. Ertsen M.W., Murphy J.T., Purdue L.E. and Zhu T. 2013 A journey of a thousand miles begins with one small step: human agency, hydrological processes and time in socio-hydrology, HESS Special Issue: Predictions under change: water, earth, and biota in the Anthropocene
73. Ertsen M.W. 2013 Jack Sparrow in the Sudan. Colonial and Post-colonial irrigation development on the Gezira Plain, Sudan, Conference IWHA, Montpellier, France
74. Ertsen M.W. and De Schacht T. 2013 Modeling an ancient Iranian dam system, EGU, Vienna, Austria
75. Pande S. and Ertsen M.W. 2013 A comparative assessment of endogenous water institutional change, EGU, Vienna, Austria
76. Zhu T. and Ertsen M.W. 2013 Long term effects of Climate change on Human adaptation in Middle Gila River Valley, EGU, Vienna, Austria
77. Ertsen M.W. 2012 "To meet the desire of the population". Water distribution arrangements on colonial Java 1880-1920, SHOT, Copenhagen, Denmark
78. Zhu T. and Ertsen M.W. 2012 Reconstructing the hydrological behavior of an ancient irrigation system at "micro" scale, EGU, Vienna, Austria
79. Ertsen M.W. 2012 Sand-storage dams in Kenya: successful application of an ancient technology. International Conference on Traditional Knowledge for Water Resources Management, International Centre on Qanats and Historic Hydraulic Structures, Yazd, Iran
80. Ertsen M.W., Moerman A. and Wilkinson T.J. 2012 Reconstructing the 'Arja water system in Oman through hydraulic and hydrological modelling. Conference on Traditional Knowledge

- for Water Resources Management, International Centre on Qanats and Historic Hydraulic Structures, Yazd, Iran
81. Zhu T. and Ertsen M.W. 2012 Track down the past: Zhengguo Canal System of China some 2000 years ago. International Conference on Traditional Knowledge for Water Resources Management, International Centre on Qanats and Historic Hydraulic Structures, Yazd, Iran
  82. Ertsen M.W. and Lund J. 2011 Drowning Men Will Clutch at Straws. Comparing Dutch and Californian River Flood Management. 25th ICID European Regional Conference, Groningen, the Netherlands
  83. Kazmi S.I and Ertsen M.W. 2011 Changes in tubewells count in two decades in area under conjunctive irrigation in Pakistan 25th ICID European Regional Conference, Groningen, the Netherlands
  84. Kazmi S.I and Ertsen M.W. 2011 Potential estimation of groundwater recharge using pesticides as tracer. EGU, Vienna, Austria
  85. Zhu T. and Ertsen M.W. 2011 New interdisciplinary approaches for understanding ancient irrigation. EGU, Vienna, Austria
  86. Ertsen M.W. 2011 The delicate balance between irrigated landscape and climate changes in human history. EGU, Vienna, Austria
  87. Ertsen M.W. 2010 All men are equal before fish or how Netherlands East Indian irrigation entered the international irrigation arena after World War II. Seminar History of Irrigation in Eastern Asia, Yogyakarta, Indonesia
  88. Ertsen M.W. 2010 Nothing more permanent than change. Or how to understand continuity in technological development. ERSCP-EMSU, Delft, the Netherlands
  89. Ertsen M.W., Swiech T. and C. Machicao Pererya 2010 Reservoir storage and irrigation in Arequipa, Peru. EGU, Vienna, Austria
  90. Ertsen M.W. and Kazmi S.I. 2010 Irrigation and groundwater in Pakistan. EGU, Vienna, Austria
  91. Pramana K.E.R., Ertsen M.W., Uhlenbrook S. and Van de Giesen N.C. 2010 Contour trenching, a contribution to artificial recharge in Vietnam. EGU, Vienna, Austria
  92. Ertsen M.W. 2010 Modelling irrigation as a response to climate change. 7th ICAANE, London, UK
  93. Ertsen M.W. 2010 Irrigation and landscape: an interdisciplinary approach. 1st Landscape Archaeology Conference, Amsterdam, the Netherlands
  94. Ertsen M.W. and Kaptijn E. 2009 A narrow place can contain a thousand friends. Irrigation as a response to climate in the Zerqa triangle, Jordan. Stine Rossel Memorial Conference, Climate and Ancient Societies. Causes and human responses, Copenhagen, Denmark
  95. Ertsen M.W. 2009 A poor workman blames his tools or how irrigation systems structure human actions. CRESC Conference Objects/What Matters? Technology Value and Social Change, Manchester
  96. Ertsen M.W. 2009 Irrigation and water scarcity in the Zerqa triangle, Jordan, or why archaeology is relevant for understanding current practice. EGU, Vienna, Austria
  97. Pramana K.E.R., Ertsen M.W., Uhlenbrook S., De Laat P. and Nonner J. 2009 The hydrological impact of contour trenching in Vietnam. EGU, Vienna, Austria
  98. Ertsen M.W. 2009 Understanding pre-Colombian irrigation through hydraulic modeling. 8th International Conference on Hydroinformatics, Concepción, Chile
  99. Ertsen M.W. and Alcaraz Bosca M. 2008 A pinch of salt or a pound of cure. Modeling salinity and drainage processes in the Río Dulce irrigation system. 10th International Drainage Workshop, Helsinki University of Technology Water Resources Publications 16, 218-229
  100. Ertsen M.W. 2008 In the bathhouse all are equal: (post) colonial identities and irrigation in northern Nigeria. 20th Congress on Irrigation and Drainage, ICID, Lahore, Pakistan
  101. Ertsen M.W. 2008 Trust building as key in transboundary water management in Volta and Rhine. 20th Congress on Irrigation and Drainage, ICID, Lahore, Pakistan

102. Ertsen M.W., Kooistra J. and Stouffs R. 2008 Portals of discovery. Educating future engineers through active learning in an irrigation design course. 20th Congress on Irrigation and Drainage, Proceedings of the Young Professionals Forum Workshop (pp.9-19). Lahore: ICID
103. Ertsen M.W. 2008 Controlling the farmer. Irrigation encounters in Kano, Nigeria. Conference Exploring Transdisciplinary Research: Water, Society and Environment in Africa, Drakensberg, South Africa
104. Ertsen M.W., Van Nooijen R. and Van Son B. 2007 The man swimming against the stream knows the strength of it. Hydraulics and social relations in an Argentinean irrigation system. USCID Fourth International Conference on Irrigation and Drainage, Sacramento, USA
105. Ertsen M.W. and Van der Spek J. 2007 Historical analysis of irrigation and environment in two arid regions in South America. 4th Asian Regional Conference of ICID, Tehran, Iran
106. Ertsen M.W. 2007 Depending on a fairly rigid schedule of operations. History and context of the Mwea irrigation scheme (Kenya). Workshop The Power of Water: Landscape, Water and the State in Southern Africa, Centre of African Studies, University of Edinburgh
107. Ertsen M.W. 2006 The Dutch Irrigation Regime. Tensions of Europe, Lappeenranta, Finland
108. Ertsen M.W. 2005 Irrigation development in the Netherlands East Indies; or the issue of (dis)continuity in technological development. 4th Conference IWHA, Paris, France
109. Ertsen M.W. 2004 Colonial irrigation. Myths of emptiness. 31st ICOHTEC, Bochum, Germany.
110. Ravesteijn W. and Ertsen M. 2004 The Interpenetration of Western and Indigenous Technologies: Irrigation on Java, Indonesia, 1800-2000. SHOT, Amsterdam, Netherlands
111. Ertsen M.W. and B. Biesbrouck 2004 Groundwater dams in Kenya. 32nd International Geological Congress, Florence, Italy
112. Ertsen M.W. and Rijsberman M.A. 2004 Goals for the future, infrastructure from the past. Water system conversion issues in the Surabaya area, Indonesia. In Zanon, B (Ed.), Sustainable Urban Infrastructure; approaches - solutions - methods. Trento: Temi Editrice.
113. Ertsen M.W., Biesbrouck B., Postma L., and Westerop M. van 2004 Participatory design of sand storage dams. MOPAN Conference Coalitions and Collisions, Tilburg, Netherlands
114. Ertsen M.W. and Pradhan T.M.S. 2004 Understanding the influence of irrigation systems on water sharing issues in a catchment context. 2nd Asian Regional Conference, ICID, Irrigation in a total catchment context, sharing the river. Echuca-Moama, Australia
115. Ertsen M.W., Prieto D., Pradhan T.M.S. and Angella G. 2004 Historical analysis of water flows in the Río Dulce catchment. 2nd Asian Regional Conference, ICID, Irrigation in a total catchment context, sharing the river. Echuca-Moama, Australia
116. Ertsen M.W. 2003 The Gezira Irrigation Scheme in the Sudan. Result or source of colonial irrigation policies in Africa? 3rd IWHA, Alexandria, Egypt
117. Ertsen M.W. 2003 Irrigation design in the Netherlands East Indies. The Tjipoenegara system in West Java. History Seminar, 3rd World Water Forum, Kyoto/Japan. ICID; IWHA; UNU
118. Ertsen M.W., Kooistra J. And Mostert E. 2003, Digital information-based learning environments in civil engineering education at Delft University of Technology, the Netherlands. I International Meeting in Civil Engineering Education, Ciudad Real, Spain
119. Kooistra J., Hopstaken K., Ertsen M., Lander B. and Lagerweij N. 2003, Virtual knowledge centers: the support of life-long information based networks in higher education. EUNIS Conference
120. Kooistra J., Hopstaken K., Ertsen M. and Lagerweij N. 2003, Problems of being @ Virtual Knowledge Centers: how to support information-based networks in higher education? CERLIM, Greece
121. Ridder H.J. de, Noppen H.P. and Ertsen M.W. 2003, Merging two different approaches in civil engineering design education. International Meeting in Civil Engineering Education, Ciudad Real, Spain

122. Ertsen M.W. 2002 Time-related perspectives on failures in water engineering. Seminar "Lessons from Failures in Irrigation, Drainage, and Flood Control Systems, 18th International Congress on Irrigation and Drainage, ICID, Montreal, Canada
123. Ertsen M.W. 2002 Learning from failures by Dutch irrigation engineers in the Netherlands East Indies. Seminar "Lessons from Failures in Irrigation, Drainage, and Flood Control Systems, 18th International Congress, ICID, Montreal, Canada
124. Ertsen M.W. 2002 Learning processes in group designing. Design Conference, Cavtat, Croatia
125. Ertsen M.W. 2001 From trial and error to science. The development and application of hydrological knowledge on Java. Colloquium History of Hydrology Dyon, France
126. Ertsen M.W. 2001 Between learning by doing and computer-supported learning: two centuries of civil engineering learning. Computers And Learning 2001, Warwick, England
127. Ertsen M.W. 2000 Integrated learning in engineering studies. The potential role of project education. Sixth Interamerican Conference on Engineering and Technology Education, Cincinnati, Ohio, USA
128. Ertsen M.W. 1999 Irrigation traditions. Searching the roots of irrigation knowledge. SHOT, Detroit, USA
129. Ertsen M.W. 1999 The technical and the social in engineering education. Design and the social sciences. Making connections. University of Alberta, Canada
130. Ertsen M.W. 1999 Designing as a continuous learning process. Attempts to educate a learning designer. 4th European Forum for Continuing engineering education. Trondheim, Norway
131. Ertsen M.W. 1999 Sustainable water use in the Proyecto Rio Dulce. Why history matters to modern irrigation. ICID Conference, Bratislava, Slovakia
132. Ertsen M.W., W. Ravesteijn and E. de Graaff 1999 Bridging the gap between societal problems and engineering design. SEFI, Winterthur, Switzerland
133. Graaff E. de, M.W. Ertsen and W. Ravesteijn 1999a Integration of social sciences in engineering studies. SEFI, Winterthur, Switzerland
134. Graaff de E., M.W. Ertsen and W. Ravesteijn 1999b Integration of humanities in engineering curricula. Problem Based Learning, Canada
135. Snippe J. and M.W. Ertsen 1999 Problem-centred learning in international classes. SEFI, Winterthur, Switzerland
136. Ertsen M.W. en T. Heijer 1998 A systems approach to sustainability in water issues. 1st inter-regional conference on environment-water: innovative issues in irrigation and drainage, ICID Conference, Lisbon, Portugal
137. Ertsen M.W. 1997 Volumetric water control in the Proyecto Río Dulce. Workshop Use of Water in Sustainable Agriculture, Albacete, Spain
138. Ertsen M.W. 1997 Supplemental irrigation in the Proyecto Río Dulce, Argentina. How farmers make use of available rainfall. Workshop ICID, Oxford, England

#### **RESEARCH FUNDING, GRANTS AND FELLOWSHIPS**

- 2019 – 2021 Eureka/Eurostars Grant, Dutch Enterprise Agency, with aQysta as coordinator. Development of ITP pump. TUD part of the grant 50,000 Euro.
- 2019 – 2021 Climate Proof Vietnam, Improvement of Higher Education HUNRE, Vietnam. Orange Fund, 750,000 euro. Coordinator Delft University of Technology / Valorisation Centre
- 2018 – 2024 Brantas River Project. Project coordination and two post-doctoral researchers. Sustainable Water Fund, Dutch Enterprise Agency, Dutch Ministry of Economic Affairs. Total project 5,5000,000 Euro, Total grant 3,000,000 Euro, with (six) Dutch and Indonesian partners. TUD part of the grant 1.2 million Euro.



- 2018 ESCHER – Emergence of Societal Complexity through Human Environment Relations. Workshop Grant with Prof. Gunn (University of North Carolina), Wenner-Gren Foundation. Total grant 20,000 USD, workshop in Delft, February 2018
- 2018 ESCHER – Emergence of Societal Complexity through Human Environment Relations. Workshop Grant with Prof. Gunn (University of North Carolina), LDE Center for Global Heritage and Development. Total grant 2,500 euro, workshop in Delft, February 2018
- 2018 – 2022 Developing Agriculture and Renewable Energy with the Turbine Pump, Delft Global PhD Grant, Delft University of Technology. Total grant 240,000 euro.
- 2017 – 2019 Enabling Access to Sustainable Irrigation: Pay-per-harvest Irrigation Service for Barsha pumps in Indonesia (EASI-Pay), Food & Business Applied Research Fund, Dutch Science Foundation. Total grant 300,000 euro. Coordinator aQysta.
- 2015 – 2016 Mechanisms of Drought? Meteorology, Hydrology and Human Agency, Dialogue Seminar Grant with Prof. Wen Wang from Hohai University. Joint Scientific Thematic Research Programme (JSTP) Dutch Science Foundation and Ministry of Science and Technology, China. Total grant 29,500 euro
- 2015 – 2021 Strengthening educational institutes in providing capacity building services for sustainable agricultural development in Rwanda, Nuffic funding 6 million euro; WRM-share 2 PhD students plus staff time. Coordinator MottMacDonald
- 2013 – 2018 Erbil Plain Archaeological Survey (EPAS), directed by Prof. J. Ur, Harvard University, USA. Irrigation expert
- 2013 – 2017 Capacity Building to deliver competent human resources in integrated water resource management and aquaculture for equitable and sustainable livelihoods in Kenya. Nuffic funding 1.2 million euro; WRM-share 75,000 euro. Coordinator Q-Point
- 2015 Human Niche Construction, Workshop at the Rachel Carson Center for Environment and Society, Ludwig-Maximilians-Universität and the Deutsches Museum, Munich, Germany; Delft University of Technology, the Netherlands
- 2014 Grant from Project Study Success, Delft University of Technology, for BSc Course Water Management Research, 3,000 euro
- 2013 Fellowship at the Rachel Carson Center for Environment and Society, Ludwig-Maximilians-Universität and the Deutsches Museum, Munich, Germany; 6 months stipend for book project on the Gezira Irrigation Scheme, Sudan, May-August 2013 and December 2013-January 2014
- 2012 Associate Fellow, Institute of Advanced Study, Durham University; May – August 2012
- 2012 – 2014 Between Human Niche Construction and Imperial Power. Long-term trends in Ancient Water Systems, Research Networking and Exchange Scheme Grant with Prof. T. Wilkinson from Durham University. Humanities Division Dutch Science Foundation and British Arts & Humanities Research Council. Total grant 36,950 euro
- 2012 – 2016 Improvement of Higher Education in Water Management in view of Climate Change in Vietnam. Nuffic funding 2.4 million euro; TUD-WRM-share 140,000 euro. Coordinator Delft University of Technology / Valorisation Centre
- 2010 – 2012 Developing Capacities for Community-based Micro-hydro Power Projects in the Maluku Province of Indonesia. Funded by Indonesia Facility 2009, EVD International Business and Cooperation. Total budget 560,000 euro; EVD-subsidy 450,000 euro; TUD-share 175,000 euro
- 2010 Field research on contour trenches, Kenya. Aqua4All subsidy 12,500 euro
- 2009 Extension of the research project on contour trenches, Vietnam. Coordinator Royal Haskoning, Partners for Water funding 45,000 euro; DUT share 10,000 euro
- 2008 Grant from the Library Committee of the Department of Civil Engineering and Geosciences; 7,000 euro, research on web-based platforms in irrigation education

- 2007 – 2008 Research project on contour trenches, Vietnam. Coordinator Royal Haskoning. Partners for Water funding 400,000 euro; DUT share 40,000 euro
- 2007 Project grant National Innovation Center; Water in Monze, Zambia. 2,500 euro
- 2006 Grant from the Delft Water Research Center for the Symposium “Streams ran uncontrolled. History, water and engineering” (with International Water History Association); 1,500 euro
- 2005 – 2007 Grant from the Library Committee of the Department of Civil Engineering and Geosciences; 30,000 euro, Project on virtual knowledge centers and education
- 2002 – 2005 Grant from the Lammingafonds for PhD-research; 35,000 euro
- 2002 – 2005 Rehydrating the Earth, European Union funding 400,000 euro. Water Resources budget 50,000 euro. Coordinating 9 partners (Netherlands, Belgium, Kenya, Tanzania)
- 2002 Delft University of Technology funding for research project ‘Delftspecial’. Total support 180,000 euro (with Delft Library); Water Resources budget 20,000 euro

## TEACHING

### Teaching qualification

- 2015 Fulfilled, with exemption from standard procedures given experience and expertise

### PhD supervision – (scheduled) graduation year

- 2022 Modelling Mesopotamia (Dengxiao Lang)
- 2022 Co-creation of affordable irrigation technology (Juan Carlo Intriago)
- 2021 Land-tenure security in Rwanda (Uwacu Alban Singirankabo)
- 2020 Small water retention structures (Reza Pramana)
- 2011 Using drawing techniques in water interventions (Martine Poolman)

### PhD committee membership – graduation year

- 2018 Urban water in Roman Ostia (Mark Locicero)
- 2016 Hydrosystems ethics (Mehdi Fasihi Harandi)
- 2009 Archaeology of the Zerqa Triangle (Eva Kaptijn)
- 2006 Reflexive water management in Iran (Mohammad Reza Balali)

### MSc supervision – (scheduled) graduation year

- 2021 Modelling Assyrian imperial irrigation systems (Alexis Stampoultzidis)
- 2021 Water distribution in the Gezira Scheme, Sudan (Mohammed Ali)
- 2021 Water productivity in Palestine (Samet Agca)
- 2020 Water quality in the Brantas, Indonesia (Joris Wiggins)
- 2020 Water access in Kitui, Kenya (Judith Brummelkamp)
- 2020 Water distribution in Kupang, Indonesia (Lodi Kini (Delft/Leiden Universities))
- 2020 Water transport technologies’ selection in Malawi (Ruben van Dijk)
- 2019 Waste and water in the Brantas, Indonesia (Swaen Visser)
- 2019 Adaptive management of the Parana Delta, Argentina (Odilia Scholvinck)
- 2018 Context variation by design of water infrastructure (Thom van der Gragt)
- 2018 Groundwater modelling of Mauritius (Akshay Kowlessar)
- 2017 Socio-Hydrological modelling in Kitui District, Kenya (Katharina Schulthess)

2016	Systems engineering in water projects (Tessa Peters)
2016	Sociohydrology of Kitui sand-storage dams (Paul Strohschein)
2015	Modelling medieval irrigation in Oman (Themis-Dimitra Xanthopoulou)
2015	Modelling ancient irrigation of the Hohokam (Ante Zoric)
2012	Farmers' strategies coping with water shortage (Bingjing Zhang)
2010	Effects of a dam on downstream irrigation systems in Peru (Theoclea Schwiech)
2010	Emergency measures in water storage (Joost Nelissen)
2009	Relating hydraulic properties and daily practice in irrigation, Peru (Eljakim Koopman)
2008	Informal shallow groundwater irrigation in Upper East Ghana (Joost van den Berg)
2007	Salinization in Santiago del Estero, Argentina (Maria Alcaraz Bosca)
2007	Modelling sand storage dams systems in Kitui district (Kenya) (Rosa Orient Quilis)
2006	The impacts of flood control measures in Bangladesh (Margot Drost)
2005	The Irrigation System as an Open System (Carol Lieveld)
2005	Actual evapotranspiration in Santiago del Estero, Argentina (Paul Schipper)

### **MSc committee member – graduation year**

2020	Landscape design in the Baakse Beek area (Yingjie Zhang (Architecture))
2020	Drought prediction in Malawi (Ileen Streefkerk)
2019	IWRM in Ecuador (Claudia Prehn)
2018	Adaptive planning for sustainable WASH (Niki Versteeg, TPM)
2017	Water scarcity and drought management in Sicily (Caterina Marinetti)
2016	Flood modelling in the Netherlands (Louise Klingen)
2016	Treated wastewater reuse for construction materials in Mozambique (Nessia Fausta)
2016	Sustainable water management in Palomino, Colombia (Natalia Uribe (Delft/Leiden))
2011	Subsurface abstraction in the Amsterdam Water supply dunes (Robbert Martens)
2010	Water control on the Linge River (Jan Willem Bronkhorst)
2010	Project management in Uruzgan, Afghanistan (Cyriel Hodiament)
2008	Project management related competences in the building sector (Paul Everts)
2002	Flow control in the Cihea Irrigation Scheme (Robert Schram)

### **Courses and modules**

2019 – ...	Module African Resources in LDE minor African Dynamics (2 credits)
2019 – ...	Delft coordination of LDE minor African Dynamics
2018 – ...	Modules Research Setup and Literature Review (1 credit each, MSc skills course)
2017 – ...	Engineering and development (4 credits; elective MSc)
2014 – ...	Water management research (4 credits, 3 <sup>rd</sup> year BSc elective course)
2014 – ...	Water systems, people and society (4 credits; elective MSc)
2002 – ...	Supervision water Resources BSc-graduation projects (10 credits; 5 students per year)
2002 – ...	Supervision MSc-graduation projects (40 credits; see list)
1999 – ...	Supervision student team projects in all years of the BSc and MSc programs
2014 – 2016	Water management (5 credits, 2 <sup>nd</sup> year BSc, responsible for experimental workshops)
2011 – 2013	Water works in practice (6 credits; 3 <sup>rd</sup> year BSc elective course Water Minor)
2008 – 2010	Coordinator and teacher Junior Delft – Floating City (5 <sup>th</sup> grade secondary school)
2005 – 2013	Irrigation and drainage (4 credits; 1 <sup>st</sup> year MSc)
2005 – 2012	Water control (5 credits; 3 <sup>rd</sup> year BSc elective course)
2005 – 2009	Coordinator and teacher Athens Water Management (2 credits; students outside DUT)
2004 – 2016	Civil engineering in developing countries (4 credits; elective MSc)

- 1999 – 2002 Coordinator of Civil Engineering Project Education  
 1997 – 1999 Development/teaching of courses/programs integrating social sciences in DUT engineering programs

## **ACADEMIC DUTIES AND BODIES**

### **Delft University**

- 2014 – ... Member of the LDE Centre for Global Heritage & Development (Leiden University, Delft University of Technology, Erasmus University Rotterdam)  
 2014 – ... Member of Evaluation Committee for Teacher Standards within CEG  
 2008 – ... Referee of Civil Engineering for Sustainable Development Graduation Specialization  
 1999 – ... Training staff/students on team skills, project/problem based learning and program management/development  
 2014 – 2018 Coordination of Water Management BSc-graduation projects  
 2009 – 2018 Coordinator Honors Programs Department of Civil Engineering and Geosciences (CEG)  
 2008 – 2011 Director of BSc program Civil Engineering  
 2008 – 2011 Strategic Committee of Department of CEG, as Director of BSc program  
 2007 Departmental committee to evaluate the BSc program in Civil Engineering  
 2005 – 2010 Coordination of Water Management BSc-graduation projects  
 2005 – 2009 Departmental committee on minor programs in the Civil Engineering BSc program  
 2003 – 2014 Management Team Department of Water Management  
 2002 – 2009 Library Commission of Department of CEG  
 2002 – 2007 Chairman Working Group Computer-supported learning in the water domain  
 2001 Departmental committee to develop the new Civil Engineering BSc program  
 1999 – 2002 Coordinator of Civil Engineering Project Education  
 1999 – 2001 Exam Committee for the first year BSc Civil Engineering

### **External**

- 2019 – ... Board Member-at-Large of the International Consortium of Environmental History Organizations  
 2014 – ... Member of the LDE Centre for Global Heritage & Development (Leiden University, Delft University of Technology, Erasmus University Rotterdam)  
 2014 – ... Member History Working Group, International Union of Geodesy and Geophysics (IUGG)  
 2015 – 2020 Member of the Scientific Steering Committee of the Integrated History and Future of People on Earth (IHOPE) Global Network  
 2020 Chair Program Committee Water History Conference, IWHA, Delft (not held)  
 2020 Chair Organization Committee Water History Conference, IWHA, Delft (not held)  
 2015 – 2017 President of the International Water History Association (IWHA)  
 2015 Chair Organization Committee Water History Conference, IWHA, Delft 2015  
 2015 Chair Program Committee Water History Conference, IWHA, Delft  
 2010 – 2015 Member Travel Grant Committee of Envirotech  
 2010 Chair Program Committee Water History Conference, IWHA, Delft  
 2010 Chair Organization Committee Water History Conference, IWHA, Delft  
 2009 Member Program Committee World Environmental History Congress, International Consortium of Environmental History Organizations, Copenhagen  
 2008 – 2015 Secretary Dutch Association of Water History  
 2008 – 2012 International Commission on Irrigation and Drainage (ICID), Chair Working Group Modernization of Irrigation Services (WG-MIS)

- 2000 – 2008 International Commission on Irrigation and Drainage (ICID), Member Young Professionals Forum (YPF)  
 2005 Chair Organization Committee Water History Conference, IWHA, Paris  
 2005 Member Program Committee Water History Conference, IWHA, Paris  
 2003 – 2015 Treasurer and member Council International Water History Association (IWHA)

### **MEMBERSHIPS**

- 2014 – ... International Union of Geodesy and Geophysics (IUGG)  
 2013 – ... American Schools of Oriental Research (ASOR)  
 2008 – ... American Society for Environmental History (ASEH)  
 2008 – ... Envirotech, ASEH-SHOT Special Interest Group (SIG)  
 2005 – ... European Geosciences Union (EGU)  
 2005 – ... International Association for the Hydrological Sciences (IAHS)  
 2003 – ... International Water History Association (IWHA)  
 1999 – ... Society for the History of Technology (SHOT)

### **LANGUAGE SKILLS**

- Dutch Native speaker  
 English Speaking, reading and writing very good  
 Spanish Speaking and reading good, writing fair  
 German Speaking and reading good, writing fair  
 French Speaking, reading and writing fair

### **EXPERIENCE IN COUNTRIES OTHER THAN THE NETHERLANDS**

Argentina  
 China  
 Germany  
 Indonesia  
 Kenya  
 Peru  
 Philippines  
 Rwanda  
 Tanzania  
 United Kingdom  
 United States of America  
 Vietnam

### **PERSONAL INTERESTS**

Reading (both fiction and non-fiction)  
 Playing volleyball  
 Cooking  
 Playing the piano

