

CURRICULUM VITAE

AKISSA BAHRI

Research into use, and institutional and partnership building

Akissa Bahri, an agricultural engineer by training, has worked in water research in the fields of water resources development and management, agricultural use of marginal waters and biosolids, and their impacts on the environment with a focus on water quality and water use efficiency.

She has been dealing with the double-sided problems of dwindling water resources and the risks of soil deterioration associated with land application of brackish and reclaimed waters and sewage sludge. These practices, if not well managed, may create potential problematic long-term environmental impact and maybe even a public health problem. She was able to arrive at best practices for using marginal waters and biosolids. The findings were communicated to government authorities and transferred into standards and directives to farmers for practical application. She then became a key policy adviser on the matter.

Akissa Bahri has a long-standing interest in how a more integrated approach to managing water and wastewater can contribute to meeting water demand and protecting the environment. From her position as Laboratory Chief at the National Research Institute for Agricultural Engineering, Water and Forestry and the National Commission for Agricultural Water Research Programming and Evaluation she was leading, she was able to influence the research directions and the results' transfer with a strong focus on efficient agricultural water use. She has guided national research to be most effective in resolving practical issues of agricultural water use efficiency in Tunisia. This has involved addressing the use of appropriate technology for the conditions of Tunisia, the high salinity content of most Tunisian waters, and the environmental impacts of reclaimed water and biosolids on soils, crops and groundwater.

She has assisted her country to supplement its scarce water resources with reclaimed water, and to provide an environmentally safe and useful manner of biosolids recycling through land application and also sought solutions for critical challenges to water security by improving urban water and wastewater management in the growing cities of the developing world.

She has authored numerous papers and reports on the topic, including *Managing the other side of water cycle: Making wastewater an asset*. The paper focuses on the management of the whole water/waste cycle at the city level within an integrated approach, outlining what it will take to put into practice a sustainable approach to water supply, sanitation and reuse and how it is essential to connect city and countryside in terms of water and nutrient flows. It looks at options for closing the loop between human settlement discharges and their surrounding watersheds based on an integrated approach to water resources management. Special attention is given to the full spectrum of technical, planning, management, institutional, economic and policy aspects. *Managing the Other Side of the Water Cycle* is thus an important contribution towards widening the debate on the management of the "after use" part of the water and waste cycle. The paper on *Integrated Urban Water Management (IUWM)* shows how IUWM, nested within the broader framework of integrated water resources management can contribute to water security in a basin or catchment by aligning the urban water sector with rural water supply, agriculture, industry, energy and the environment. And it provides guidance on implementing IUWM – covering policy, financing and management options and technological advances.

Policy and legislative issues regarding water reuse and land application of biosolids

Because of her familiarity with health and environmental issues on wastewater and biosolids, she was a member of the team that contributed to the adoption of regulations for water reuse and land application of biosolids. The results derived from her research work have been used for drafting the Tunisian policy and regulations regarding water reuse and biosolids management issued respectively in 1999 and 2007.

She has also developed an extensive practical experience in those fields, both in Tunisia, other semi-arid areas of the Mediterranean region, the Middle East and in Africa. This has led her to be also involved in drafting the "Guidelines for municipal water reuse in the Mediterranean countries" and in contributing to the drafting of the "Recycled Water Master Plan for the Abu Dhabi Emirate" (2010).

Managing Research

From 1987 to 2005, she was responsible at the National Research Institute for Agricultural Engineering, Water, and Forestry, Ministry of Agriculture and Water Resources in Tunisia (i) from 2001-2005, for setting up and managing a laboratory for research on sustainable management of agricultural water; (ii) from 1997-2005, for coordinating the research program on irrigation and drainage funded within the context of investment projects of the World Bank, the Agricultural Sector Investment Loan (1992-1997) and the Water Sector Investment Loan (2001-2005); (iii) from 1994-2005, for leading the National Commission for Agricultural Water Research Programming and Evaluation; and (iv) from 1980-1987, for implementing a research project (RAB 80/011) funded by UNDP on reuse of reclaimed water and biosolids in agriculture. She helped to coordinate the utilization of loans to Tunisia targeted on increasing research capability as an element of the country's infrastructure.

As Director for Africa at the International Water Management Institute (IWMI) from 2005-2010, based in Accra (Ghana), she has been responsible to spearhead, direct and oversee research and administration offices in the Africa region (Ghana for West Africa, Ethiopia for East Africa and South Africa for Southern Africa) to achieve IWMI's goals and act as IWMI's representative in the geographic region. She developed the IWMI Africa strategy and business development plan and strengthened IWMI's relationships with other regional and international organizations. She has also developed a sound and strong knowledge of development issues in Africa.

Putting knowledge into action and contributing to institutional and partnership building

As Coordinator of the African Water Facility (AWF) at the African Development Bank from 2010-2015, she was responsible for planning, organizing, directing and supervising the activities undertaken by the AWF, an initiative of the African Ministers' Council on Water. She managed a portfolio of 98 projects in 51 countries, totaling 124 million euros. She supported the ambitious goal of catalyzing the development of Africa's water sector to help the continent achieve water security through the multiplication of water projects, in view of achieving the Africa Water Vision 2025. She guided the AWF to transform its €20 million annual program to address the new priorities and the technical challenges of new approaches to water resources management as well as to build new international partnerships. With a new Strategic Plan repositioning the AWF as a Project Preparation Facility in 2011, strengthening AWF team's skills and competencies, and launched projects all over the African continent and in Fragile States in high risk regions such as Darfur in Sudan, Somaliland in Somalia, and others, all these efforts have contributed to institutional and partnership building and putting knowledge into action by introducing innovative ideas to create enabling environments and mobilize resources to ultimately help the disadvantaged communities cope with change and generate their own development. They have increased AWF's visibility on the international and African scenes and improved AWF's reputation.

She contributed to the engagement of a wide range of formal and informal partners including academia, regional organizations, multilateral and bilateral agencies, non-government organizations, government institutions and community-based organizations through the AWF-funded projects. In addition, different partnership models including public-public, public-private, and cross-sectoral partnerships, that reinforced coordination between various institutions, were stimulated.

In order to mobilize the resources for the water sector, the AWF has adopted a two pronged approach comprising attracting financing downstream of its interventions and upstream co-financing of resources from partners during the project development and preparation stage. At the end of 2014, the AWF reported highly positive resources mobilization results through its project preparation activities. Since 2006, AWF bankable projects preparation initiatives have contributed to attracting up to €1.4 billion for the implementation of follow-up projects, of which two thirds have already been committed to projects. Every Euro in AWF funding directed at the preparation of investment projects had a leverage factor of about 35. All these have culminated to the African Water Facility being recognized as "Project Preparation Facility of the Year" at the Africa investor CEO Infrastructure Developers and Investment Summit 2015.

Teaching, Training and Lectures

Akissa Bahri has built, strengthened and led teams of professionals during her career. She has developed partnerships with various organizations that led to the development of projects. Her experience in the field of water resources management and more specifically in the field of water reuse linking sanitation to reuse is highly relevant.

She joined the National Research Institute for Agricultural Engineering, Water, and Forestry (INRGREF) in July 2016 and the National Agricultural Institute of Tunisia (INAT) in February 2017, Tunis, Tunisia, as Professor.

Awards

2018	IWA Women in Water Award awarded by the International Water Association
2009	Recipient of the "Prof. C.N.R. Rao Prize for Scientific Research" awarded by the World Academy of Sciences for the Advancement of Science in Developing Countries
1996	Kuwait Prize in the Field of Waste Recycling from the Kuwait Foundation for the Advancement of Sciences
1993	International Foundation for Science/King Baudouin Award
1984	Grand Prize of Scientific Merit for Development from Guinness Foundation

Member of Academies/Organizations and Selected Professional Activities

2019	Member of the Jury for the World Irrigation and Drainage Prize (WID Prize) 2019
2019-	Member of the International Advisory Committee of the UNU-Institute on Water, Health and the Environment
2019-	Member of the JRS Biodiversity Foundation's Board of Trustees
2018	Chair of the IWA Global Water Award
2018	Member of the mentoring for Research Program (MRP), a pan-African initiative of the International Support Network for African Development (ISNAD-Africa).
2018	Member of the Scientific Committee of the IWA Regional Conference on Water Reuse and Salinity Management", 11-15 June 2018, Murcia, Spain
2018	Member of the External Review Panel for the UN-Water SDG 6 Synthesis Report 2018
2018	Member of the Jury of the King Hassan II Great World Water Prize
2017	Member of the Jury of the African Union Kwame Nkrumah Scientific Continental and Regional Awards Applications 2017 Edition
2017	Member of the Program Committee of the 12th IWA SG Conference on Water Reclamation and Reuse, June 2019, Berlin
2017	Member of a Dialogue on the Valuing Water Initiative organized under the auspices of the High Level Panel on Water (HLPW)
2017-2018	Member of the Board of Water Innovation Engine
2017-	Member of the Suliver Board of Trustees
2017-	Member of the 2017-2020 African Academy of Sciences (AAS) Governing Council
2017-	Member of the Human Rights & Science Advisory Board
2017-	Member of the scientific committee of the International Mixed laboratory NAÏLA: Management of water resources in Tunisian rural areas
2016-	Chair of the World Academy of Sciences for the advancement of science in developing countries (TWAS) Independent Expert Committee (IEC) for the review of TWAS Prize candidates in the field of Agricultural Sciences (2016-2018)
2016-	Member of the Alliance for Accelerating Excellence in Science in Africa Independent Strategic and Scientific Advisory Board (AESA-ISSAB)
2015-2017	Member of the Board of Directors of the Middle East and North Africa Network of Water Centers of Excellence (MENA-NWC)
2015	Member of the selection committee of the 10 th Edition of the Islamic Development Bank Prize for Women's Contribution to Development
2013-2015	Member of the Expert Committee for the review of TWAS Prize candidates in the field of Agricultural Sciences

2013	Member of the Program Committee of the 9th IWA International Conference on Water Reuse, 27-31 October 2013, Windhoek, Namibia Member of the Program Committee of the 3rd IWA Development Congress & Exhibition, 14 - 17 October 2013, Nairobi, Kenya
2010-2012	Chair of the Membership Advisory Committee in Agricultural Sciences of The World Academy of Sciences for the advancement of science in developing countries (TWAS)
2011-	Fellow of the International Water Association (IWA)
2011	Member of the Program Committee of the 8th IWA International Conference on Water Reclamation and Reuse, 26 – 29 September 2011, Barcelona, Spain
2010-2011	Member of the CIRAD Scientific Committee
2010	Member of the IWA Program Committee of the 2010 Montreal World Water Congress, 19–24 September 2010, Montreal, Canada
2009	Member of the Middle East Science Fund Regional Executive Committee
2009	Member of the International Scientific Committee of the 7th IWA World Congress on Water Reclamation and Reuse REUSE09, 20-25 September 2009, Brisbane, Australia Member of the Program Committee of the 1st IWA Development Congress & Exhibition, 6–9 September 2009, Mexico City, Mexico
2008	Member of the IWA Program Committee of the 2008 Vienna World Water Congress, 7-12 September 2008, Vienna, Austria
2007-2010	Member of the International Water Association Program Committee
2007-	Fellow of the African Academy of Sciences (AAS) (Nairobi, Kenya)
2007	Member of the International Scientific Committee of the 6th Conference on Wastewater Reclamation and Reuse, 9-12 October 2007, Antwerp, Belgium
2006-2011	Member of the Scientific Program Committee of the Stockholm Water Symposium
2005-2011	Member of the Technical Committee of the Global Water Partnership
2005	Member of the Program Committee of the 1st International Conference on Wastewater Reclamation and Reuse for Sustainability (WRRS2005), 8-11 November 2005, Jeju, Korea
2005	Fulbright Scholar, Davis, California, January-June 2005
2003-2004	Member of IWMI's Board of Governors, Sri Lanka
2003-2014	Member of the International Foundation for Science (Stockholm, Sweden) Scientific Advisory Committee in the Water Resources research area
2003-	Fellow of the World Academy of Sciences (TWAS) for the Advancement of Science in Developing Countries (Trieste, Italy)
2003	Member of the Organizing Committee of the 4th International Symposium on Wastewater Reclamation and Reuse, 12-14 November 2003, Mexico City
2002-2008	Member of the Stockholm Water Prize Nominating Committee, Stockholm, Sweden
2002	Member of the Program and Scientific Committee of the Regional Symposium on Water Recycling in the Mediterranean Region, 26-29 September 2002, Iraklio, Greece
2001-2004	Member of the Cemagref's Specialized Commission of the Department "Equipment for Water and the Environment", France
2000	Member of the International Water Academy (Oslo, Norway)
2000-2003	Member of the Scientific Committee of the Program "Solidarité-Eau", Ministry of Foreign Affairs, France

Employment History

2017-	Professor, National Agricultural Institute of Tunisia (INAT) from February 2017, Tunis, Tunisia
2016-2017	Professor, National Research Institute for Agricultural Engineering, Water and Forestry (INRGREF) from July 2016, Tunis, Tunisia
2010-2015	Coordinator of the African Water Facility (AWF), African Development Bank, Tunis, Tunisia

- 2005-2010 Director for Africa, International Water Management Institute (IWMI), Accra, Ghana
 1978-2005 National Research Institute for Agricultural Engineering, Water, and Forestry (INRGREF), Tunis, Tunisia – Research Fellow, Senior Research Fellow, Director of Research

Education

- 1995 Ph.D., Water Resources Engineering, Institute of Science and Technology, Lund University, Sweden
 1982 Doctor-Engineer, Institut National Polytechnique de Toulouse, France
 1977 Agricultural Engineer, Ecole Nationale Supérieure d'Agronomie de Toulouse, France

Relevant Publications: Books and Proceedings

- Lazarova, V., Asano, T., Bahri, A. and Anderson, J. (Eds.). 2013. **Milestones in water reuse – The best success stories**. IWA Publishing, ISBN: 9781780400075. 408 p.
 Drechsel, P., Scott, C.A., Raschid-Sally, L., Redwood, M. and Bahri, A. (Eds.). 2010. **Wastewater irrigation and health: assessing and mitigating risk in low-income countries**. London, UK: Earthscan; Ottawa, Canada: International Development Research Centre (IDRC); Colombo, Sri Lanka: International Water Management Institute (IWMI). 404 p. Accessible at <http://web.idrc.ca/openebooks/475-8/>
 Lazarova, V. and Bahri, A. Ed. 2005. **Water Reuse for Irrigation: Agriculture, Landscapes, and Turf Grass**, Catalog no. 1649, ISBN: I-56670-649-I, CRC PRESS, 456 p.
 Brissaud, F., Bontoux, J., Mujeriego, R., Bahri, A., Nurizzo, C. and Asano, T., Eds. 2001. **Wastewater Reclamation, Recycling and Reuse 2001**. Selected proceedings of the 3rd International Symposium on Wastewater Reclamation, Recycling and Reuse, held in Paris, France, 3-6 July 2000. *Water Science and Technology*, Vol. 43, No. 10, 2001. IWA Publishing 2001.

Theses

- Bahri, A. 1995. **Environmental impacts of marginal waters and sewage sludge use in Tunisia**, Ph.D., Lund University, Sweden, 213 p.
 Bahri, A. 1982. **Utilisation des eaux et des sols salés dans la Vallée de Kairouan, Tunisie**, Dr. Ing. Thesis, INP-Toulouse, France, 102 p + annexes.

Relevant Publications: Journal Articles

Integrated Water Resources Management - Integrated Urban Water Management

- Bahri, A., Brikké, F. and K. Vairavamoorthy, 2016. **Managing Change to Implement Integrated Urban Water Management in African Cities**. *Aquatic Procedia*, Vol. 6, August 2016, Pages 3–14, <http://authors.elsevier.com/sd/article/S2214241X16300025>.
 Bahri, A. 2012. **Integrated urban water management**, GWP TEC Background Paper No 16, May 2012, 89 p., ISBN: ISBN: 978-91-85321-87-2
 Bahri, A. 2011. **Towards integrated urban water management**. Perspectives paper. GWP. 12 p.
 Bahri, A., Sally, H., Namara, R.E., McCartney, M., Awulachew, S.B., van Koppen, B. and van Rooijen, D. 2011. **Integrated Watershed Management: Towards Sustainable Solutions in Africa**. In *Water for food in a changing world*, Contributions to the Rosenberg International Forum on Water Policy, Edited by Garrido, A. and Ingram, H., ISBN 0-203-82841-0 Master e-book ISBN, Published by Routledge, USA and Canada, 50-72.
 Obeng, L., Bahri, A. and Grobicki, A. 2010. **Water Scarcity and Global Megacities**. *Tackling the Water Crisis*. Foreign Policy Centre (FPC), London, United Kingdom, 80-85.
 Barry, B., Namara, R. and Bahri, A., 2009. **Better rural livelihoods through improved irrigation management: Office du Niger (Mali)**, Chapter 6, *Integrated Water Resources Management in Practice: Better Water Management for Development*, Edited by Roberto Lenton and Mike Muller, GWP Publication.

Reuse of Reclaimed Water and Biosolids – Research going to Resource Recovery

- Angelakis, A., Asano, T., Bahri, A., Jimenez, B. and Tchobanoglous, G. 2018. **Water Reuse: From Ancient to Modern Times and the Future**. *Front. Environ. Sci.* 6:26. doi.org/10.3389/fenvs.2018.00026
- Ait-Mouheb, N., Bahri, A., Ben Thayer, B., Benyahia, B., Bourrié, G., Cherki, B., Condom, N., Declercq, R., Gunes, A., Héran, M., Kitiir, N., Molle, B., Patureau, D., Pollice, A., Rapaport, A., Renault, P., Riahi, K., Romagny, B., Sari, T., Sinfort, C., Steyer, J-P., Talozzi, S., Topcuoglu, B., Turan, M., Wéry, N., Yıldırım, E., Harmand, J. 2018. **The reuse of reclaimed water for irrigation around the Mediterranean Rim: a step towards a more virtuous cycle?** *Regional Environmental Change*; <https://doi.org/10.1007/s10113-018-1292-z>
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- Asano, A. and Bahri, A. 2010. **Global challenges to wastewater reclamation and reuse**. Selections from the 2010 World Water Week in Stockholm. Edited by Jan Lundqvist. www.worldwaterweek.org/onthewaterfront2010. 64-72.
- Scott, C.A., Drechsel, P., Raschid-Sally, L., Bahri, A. and Jimenez, B. 2010. **Wastewater irrigation and health: challenges and outlook for mitigating risks in low-income countries**. In Drechsel, P., Scott, C.A., Raschid-Sally, L., Redwood, M. and Bahri, A. (Eds.). *Wastewater irrigation and health: assessing and mitigating risk in low-income countries*. London, UK: Earthscan; Ottawa, Canada: International Development Research Centre (IDRC); Colombo, Sri Lanka: International Water Management Institute (IWMI), 381-394.
- Jimenez, B., Drechsel, P., Kone, D., Bahri, A., Raschid-Sally, L. and Qadir, M. 2010. **Wastewater, sludge and excreta use in developing countries: an overview**. In Drechsel, P., Scott, C.A., Raschid-Sally, L., Redwood, M. and Bahri, A. (Eds.). *Wastewater irrigation and health: assessing and mitigating risk in low-income countries*. London, UK: Earthscan; Ottawa, Canada: International Development Research Centre (IDRC); Colombo, Sri Lanka: International Water Management Institute (IWMI), 3-27.
- Bahri, A., 2010. **Recycled water use in agriculture**, Annex 2, Recycled Water Master Plan for the Abu Dhabi Emirate, 81 p.
- Bahri, A., 2010. **Water reclamation and reuse in MENA: A water demand practice**, WaDImena-IFAD-CIDA, Background paper, 30 p.
- Qadir, M., Bahri, A., Sato, T., and Al-Karadsheh, E. 2010. **Wastewater Production, Treatment, and Irrigation in Middle East and North Africa**. *Irrigation and Drainage Systems*, 24, 37–51.
- Bahri, A., Cross, P., Nelson, E., Pensulo, C., Zhang, W. 2010. **Ensuring Human and Environmental Health**. WWW in Stockholm 16-22 August, 2009. Overarching Conclusions 2009, 23-27.
- Qadir, M., Wichelns, D., Raschid-Sally, L., McCornick, P.G., Drechsel, P., Bahri, A. and P.S. Minhas. 2010. **The challenges of wastewater irrigation in developing countries**, *Agric. Water Manage.* 97, 561–568.
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Water and Soil Salinity management

- Selim Abou Lila, T., Bouksila, F., Hamed Y., Berndtsson, R., Bahri, A and Persson, M. 2017. **Field experiment and numerical simulation of point source irrigation with multiple tracers**. *PlosOne journal*. IF 3.54 (in press)
- Bouksila, F., Bahri, A., Berndtsson, R., Persson, M., Rozema, J., and van der Zee, S., 2013. **Assessment of soil salinization risks under irrigation with brackish water in semiarid Tunisia**, *Environmental and Experimental Botany*, 92, 176–185. DOI: 10.1016/j.envexpbot.2012.06.002. ISSN: 0098-8472. IF 4.37

- Bouksila, F., Persson, M., Bahri A. and R. Berndtsson, 2012. **Electromagnetic induction prediction of soil salinity and groundwater properties in a Tunisian Saharan oasis**, *Hydrol. Sci. J.*, 57 (7), 1473–1486. DOI:10.1080/02626667.2012.717701. ISSN 0262-6667. IF 2.22
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- Bouksila, F., Persson M., Berndtsson R. and Bahri A., 2008. **Soil water content and salinity determination using different dielectric methods in saline gypsiferous soil**, *Hydrol. Sci. J.* 53(1), 253-265. <http://www.atypon-link.com/IAHS/doi/abs/10.1623/hysj.53.1.253>.
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Teaching, Training and Lectures

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|------------------------------------|---|
| 2019 | Presentations on "Sustainable International Water Projects" on 9 April 2019, The Resource Water: Global Challenges, Global Goals, 07-16 April, 2019, European Academy Otzenhausen, Nonnweiler, Germany |
| 2016-2019 | Courses on the « Sustainability of irrigated systems », INAT, Tunis, Tunisia |
| 2010 | Lecturer on (1) Water Quality , (2) Water reclamation and reuse in MENA , (3) Water reclamation and reuse in MENA – A water demand practice , and (4) Valuing water reclamation and reuse at the "Water reclamation and reuse in MENA: A water demand practice" , IDRC/AWA-Course on Water Demand Management, 4-6 January 2010, Abu Dhabi, UAE and 1-3 March 2010, Cairo, Egypt |
| 2007-2011 | Lecturer in the International Training Program: Sustainable Urban Water and Sanitation – Integrated Processes, on " How can water supply and sanitation projects improve the livelihoods of the urban poor? ", " Environmental and health aspects of water reuse ", " Peri-urban agriculture and water ", 5–23 November 2007; 13–31 October 2008; 30 August–17 September 2010; 28 March–15 April 2011, Lund University, Lund, Sweden |
| 2004 | Lecturer on " Water reuse ", ENIT, 5-7 June 2004, Tunis, Tunisia |
| 2003 | Lecturer on " Water reuse ", CITET, 23-25 September, Tunis, Tunisia |
| 2000 | Speaker at the Euro-Summer School "DESAR" Decentralised Sanitation and Reuse, June 18-23, 2000, Wageningen, The Netherlands |
| 2000 | Lecturer on " Use of sewage sludge in agriculture and soil reclamation ", 21-25 February 2000, Mexico City, Mexico |
| 1995, 1996,
1997, 1999,
2000 | Lecturer in postgraduate courses on Water Reuse at the National Agronomic Institute of Tunis, and the Faculty of Sciences, Tunis, Tunisia |

1985 to 2000 Lecturer in the Advanced International Training Program "Water Resources Development in Arid and Semi-Arid Regions", Lund University (Sweden) on the **Use of brackish water, wastewater and sewage sludge in agriculture**, Lund, Sweden