# CURRICULUM VITAE

# JOHN BRISCOE

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## **Position**

Gordon McKay Professor of the Practice of Environmental Engineering. Faculty member of

- School of Engineering and Applied Sciences
- School of Public Health
- Kennedy School of Government

Director, Harvard Water Initiative

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## Personal Data

Born:	South Africa, July 30, 1948				
Citizenship:	South Africa and Ireland. Permanent resident (Green card) in US.				
Languages:	English, Afrikaans, Bengali, Portuguese, Spanish				
Residence:	Has lived and worked in his native South Africa, the United States, Bangladesh,				
	Mozambique, India and Brazil.				
<b>Education</b>					

1965-1969: B.Sc (first class honours) in Civil Engineering, University of Cape Town
1970-1972: MS in Environmental Engineering, Harvard University
1972-1976: Ph.D. in Environmental Engineering, Harvard University; Major field: Water Resources Engineering; Minor fields: economics and demography
1993: Leadership Course at Center for Creative Leadership, Greensboro, North Carolina
1998: Executive Development Program -- Harvard and Stanford Graduate Schools of Business

## Awards and Honors

#### University of Cape Town:

1965: Alan Spiers Memorial Bursary Max Michaelis Scholarship Barney Barnato Scholarship
1966-69: Electricity Supply Commission Bursary
1967: University Medal in Mathematics
1968: University Medals in Hydraulics, Hydrology, Transportation, Highways, Soil Mechanics and Thesis; City of Cape Town Gold Medal as Best Graduating Engineering Student at the University; South African Steel Institute Award for Best Structural Design; E. Oliver Ashe Scholarship for Post-Graduate Study; Cape Town City Scholarship for Post-Graduate Study.

#### Harvard University:

- 1970-74: Harvard University Fellowship
- 1974: Clemons Herschel Prize (awarded annually to the outstanding graduating student in Environmental Engineering)

As an employee of the World Bank was prohibited from receiving awards. Since leaving the World Bank has:

- $_{\odot}$  Received The President's Award from the International Water Association (2009).
- Received the Grande Medalha de Inconfidencia, one of Brazil's highest civilian honors (2009).
- Been nominated by students for the Harvard University Joseph Levenson award to recognize exceptional teaching of undergraduates.

## **Professional Registration**

Registered Professional Engineer (South Africa, No. 848025)

# **Employment**

John Briscoe has had a career which has focused on the issues of water and economic development. This has included employment in the following:

- Major universities (Harvard and the University of North Carolina);
- A major international public health research institution (the Cholera Research Laboratory, now the International Center for Diarrheal Diseases Research);
- A non-governmental organization (OXFAM);
- Government water management agencies (South Africa and Mozambique) and
- The World Bank, the premier development agency in the World, in a variety of research, operational, policy and management roles. Briscoe's role in affecting the evolution of the World Bank was the subject of Chapter 13 in Sebastian Mallaby's definitive history, "The World's Banker," Penguin 2006.

Year	Period	Institution	Position	Major responsibilities
1967	3 months	ESCOM (the South African electricity company)	Trainee	Construction of the Arnot and Hendrina thermal power stations.
1968	3 months	John Mowlem Co.	Trainee	Construction of the King George Dock, Hull, England.
1969	3 months	Ninham Shand and Co., Consulting Engineers	Engineer- in-training	Design of secondary sewerage treatment plant for town of Mossel Bay (population 50,000).
1970	1 year	Department of Water Affairs, South Africa	Planning Engineer	Hydrological and economic planning of water resource investments.
1973-5	3 years	Harvard/India Water Resources Program, Harvard University	Project Coordin- ator	Water resource planning for Narmada and Ganges river basins in India.
1976	1 year	Harvard School of Public Health and MIT	Research Scientist	Responsible for assessment of effects of infection on nutrition for World Bank-funded study of urban malnutrition.
1976-7	2 years	Epidemiology Division, Cholera Research Laboratory, Bangladesh	Epidemio- logist	Design and execution of field research on water demand, health impact of water use, and political economy of rural energy.
1978	6 months	OXFAM, Bangladesh	Advisor	Review of role of NGOs in development in Bangladesh.
1978-9	1 year	Division of Applied Sciences, Harvard University	Research Fellow	Research projects on water demand, diarrheal disease epidemiology, and social structure and energy use in Bangladesh.
1979-81	2 years	National Directorate of Water, Mozambique	Water Engineer	Management of a provincial water supply service. Design, planning and supervision of water and sewerage projects in rural areas and medium- sized towns.
1981-87	5 years	School of Public Health, University of North Carolina at Chapel Hill	Assistant/ Associate Professor	Research and teaching on water supply and water resources management. Manager of the UNC component of the Camp, Dresser and McKee-led Water and Sanitation for Health project.
1986-7	1 year	Water Supply and Urban Development Dept, World Bank	Consultant (full-time)	Design and execution of multi-country research study on demand for water; preparation of World Bank Policy Paper on Rural Water Supply.
1988-90	2 years	Brazil Department, World Bank.	Senior Economist	Lending and analytic work on health in Brazil.
1990-96	5 years	Water and Sanitation Division, The World Bank	Chief	Responsible for providing specialized support to Bank operations, and for Bank research and policy in the water and sanitation sector. By 1996 the division comprised a professional staff of about 100 and the budget was \$16 million.
1996- 2005	8 years	The World Bank	Senior Water Advisor	The senior water professional position in the World Bank. Responsibility for corporate policies and strategies on water and oversight of a portfolio of about \$40 billion of water resources, irrigation, hydropower, water and sanitation and

				water environmental projects. Author of the Water Strategy of the World Bank (2003). From 2003 to 2005 served both as Senior Water Advisor for the South Asia Region while continuing to serve as Bank-wide Senior Water Advisor.
2005- 2008	3 years	The World Bank	Country Director for Brazil	Responsible for designing and managing the World Bank's program of lending and analytic and advisory services to Brazil, the World Bank's biggest hard loan borrower, with a loan portfolio of about \$12 billion, and lending of over \$3 billion in my final year.
2009 - date	2 years	Harvard University	Professor	Responsible for teaching, research and developing a new Harvard Water Security Initiative. Faculty member of the School of Engineering and Applied Sciences, School of Public Health and Kennedy School of Government. Fellow of the Harvard University Center for the Environment and the Weatherhead Center for International Affairs. Serves on the Advisory Committees of the David Rockefeller Center for Latin America and the South Asia Initiative.

## **Recent Consultancies:**

Briscoe has provided advisory and consulting services for many institutions in the private sector, government and non-profit sectors. Recent clients include McKinsey and Company, Exxon, the World Bank, the Asian Development Bank, the Murray Darling Basin Authority, the Australian National Water Commission, the Commission of Enquiry into the 2010 Pakistan Floods, and the National Intelligence Council of the United States.

# Membership of Professional Boards and Societies

- Was a founding member of the major global water partnerships. These include the World Water Council, the Global Water Partnership, and the World Commission on Dams.
- Served for six years on the Water Science and Technology Board of the National Research Council.
- Member of the International Water Association's Council of Distinguished Water Professionals.
- Member of the UNEP Advisory Board on Water.
- Member of the Murray Darling Basin Authority Advisory Council.
- Member of the World Economic Forum (Davos) Global Agenda Council on Water.

## **Interviews and Speeches**

John Briscoe has had extensive interaction with the major print, television and radio media. Interviews with, and articles by Dr. Briscoe have been run by major media, including the BBC, CNN, CSPAN, Fortune, National Public Radio, The Economist, the Wall Street Journal, the New York Times, The New Yorker, The Economic Times and The Financial Times.

Dr. Briscoe has given many speeches at major water, environment and development conferences throughout the world. Recent keynote speeches include those to: the International Water Association, the International Commission on Irrigation and Drainage, the International Hydropower Association, the World Water Fora, the Water and Environment Federation, the National Waterways Conference, the World Hydropower Conference and The National Summit.

## Scientific and Professional Publications

John Briscoe has published widely in journals from many disciplines, including public health, nutrition, epidemiology, water resources, demography, anthropology, political science and economics. His publications include:

#### a. Books

- 1. Briscoe, John, Richard G. Feachem and Mujibur M. Rahaman, <u>Evaluating Health Impact: Water</u> <u>Supply, Sanitation and Hygiene Education</u>, IDRC Press, Ottawa, Canada, 80 pages, 1986.
- 2. Briscoe, John and David de Ferranti, <u>Water for Rural Communities</u>: <u>Helping People Help</u> <u>Themselves</u>, World Bank, Washington DC, 32 pages, 1988.
- 3. John Briscoe, <u>Brazil: The New Challenge of Adult Health</u>, World Bank, Washington DC, 133 pages, 1990 (in English and Portuguese).
- 4. The World Bank (Main author), <u>The Water Strategy of the World Bank</u>, Washington DC, February 2003.
- 5. John Briscoe and RPS Malik, <u>India's Water Economy: Bracing for a Turbulent Future</u>. Oxford University Press, 2006.
- 6. John Briscoe and RPS Malik (editors), <u>Handbook on Water Resources Development and</u> <u>Management in India</u>, Oxford University Press, 2007.
- 7. John Briscoe and Usman Qamar, <u>Pakistan's Water Economy: Running Dry</u>, Oxford University Press, 2007.
- 8. The World Bank (Main author), <u>Country Partnership Strategy for Brazil, 2007-2010</u>, Washington DC, 2007.

#### b. Papers, articles and chapters in books

- 1. Briscoe, John, <u>Public Health in Rural India: The Case of Excreta Disposal</u>, Research Paper Series, No. 12, Harvard University Center for Population Studies, 414 pages, May 1976.
- 2. Briscoe, John, "Health and Politics," <u>Bichitra</u>, Dhaka, Bangladesh, pp. 36-39, Dec. 23, 1977.
- 3. Briscoe, John, "Bangladesh: The politics of an international health program," <u>Economic and</u> <u>Political Weekly (Bombay)</u>, vol. XIII, no. 11, pp. 518-520, March 18, 1978.

- 4. Briscoe, John, "Labour and organic resources in the Indian sub-continent," pp. 186-191 in <u>Sanitation in Developing Countries</u>, A. Pacey (ed.), Wiley, New York, 1978.
- Briscoe, John, "The role of water supply in improving health in poor countries (with special reference to Bangladesh)," <u>American Journal of Clinical Nutrition</u>, vol. 31, pp. 2100-2113, November 1978.
- 6. Briscoe, J., S. Ahmed, and M. Chakraborty, "Domestic water use in a village in Bangladesh, I: Methodology and a preliminary analysis of use patterns during the cholera season," <u>Progress in</u> <u>Water Technology</u>, vol. II, nos. 1/2, pp. 131-141, 1978.
- 7. Briscoe, John, <u>The Political Economy of Energy Use in Rural Bangladesh</u>, Research Paper Series, Environmental Systems Program, Harvard University, 85 pages, 1979.
- 8. Briscoe, John, "The quantitative effect of infection on the use of food by young children in poor countries," <u>American Journal of Clinical Nutrition</u>, vol. 32, no. 3, pp. 648-676, March 1979; reprinted as a Monograph by the American Society of Clinical Nutrition, 1979.
- Briscoe, John, "Infection and Nutrition: The Use of Public Health Programs as Nutrition Interventions," Report for the Urban Poverty Task Force of the World Bank; and background document for <u>Confronting Urban Malnutrition: The Design of Nutrition Programs</u>, by J. E. Austin, Johns Hopkins University Press, Baltimore, 1980.
- 10. Briscoe, John, "Are voluntary agencies helping to improve health in Bangladesh?," <u>International</u> <u>Journal of Health Services</u>, vol. 10, no. 1, pp. 47-69, 1980.
- 11. Briscoe, John, "On the use of simple analytic mathematical models of communicable diseases," <u>International Journal of Epidemiology</u>, vol. 9, pp. 265-271, 1980.
- 12. Briscoe, John, "The simplified design of elevated water storage towers" (in Portuguese), <u>Construir</u>, vol. 1, no. 3, pp. 20-21, 1981.
- 13. Briscoe, J., M. Chakraborty, and S. Ahmed, "How Bengali villagers choose sources of domestic water," <u>Water Supply and Management</u>, vol. 5, pp. 165-181, 1981.
- Briscoe, John. "Technical aspects of planning water supply projects in rural areas," pp. 77-85 in <u>Water Supply and Sanitation in Rural Development</u>, National Council for International Health, 1981.
- 15. Briscoe, John, "Cholera in the measles' ward?," in <u>Tropical Doctor</u>, Royal Society of Tropical Medicine, London, vol. 14, pp. 140-141, 1984.
- 16. Briscoe, John, "Evaluating pump characteristics in poor countries," <u>Civil Engineering</u>, Amer. Soc. Civil Eng., pp. 58-61, November 1984.
- Briscoe, John, "Technology and child survival: The case of sanitary engineering," <u>Population and Development Review</u>, vol. 10, pp. 237-253, 1984; and in W.H. Mosley and L.C. Chen (eds.), <u>Child Survival: Strategies for Research</u>, Cambridge University Press, Cambridge, 1984.
- Briscoe, John, "Water supply and health in developing countries: Selective primary health care revisited," <u>American Journal of Public Health</u>, vol. 74, no. 9, pp. 1009-1014, 1984; and "Reply to comment on water supply and health in developing countries," <u>American Journal of Public Health</u>, vol. 74, no. 10, pp. 1167-1168, 1984.
- 19. Briscoe, John, "Intervention studies and the definition of dominant transmission routes," <u>American Journal of Epidemiology</u>, vol. 120, no. 3, pp. 449-455, 1984.
- 20. Briscoe, John, "The optimal spacing of interfering wells: An analytic solution," <u>Ground Water</u>, vol. 22, no. 5, pp. 573-578, 1984.
- 21. Briscoe, John, "A simplified method for the design of elevated water storage tanks," <u>Waterlines</u>, Journal of the Intermediate Technology Development Group, vol. 2, no. 3, 1984.

- 22. Briscoe, John, Richard G. Feachem and Mujibur Rahaman, <u>Measuring the Impact of Water Supply</u> <u>and Sanitation Facilities on Diarrhoea Morbidity: Prospects for Case-Control Studies</u>, Division of Environmental Health and Diarrhoeal Diseases Control Programme, World Health Organization, Geneva, WHO/CWS/85.3,CDD/OPR/85.1, 71 pages, 1985.
- 23. Briscoe, John, "Evaluating water supply and other health programs: Short-run versus long-run mortality effects," <u>Public Health</u>, London, vol. 99, pp. 142-145, 1985.
- 24. Briscoe, John and William Barron, "Water and hygiene: The case of North Carolina farmworkers," <u>Journal of Environmental Health</u>, vol. 49, no. 1, pp. 24-27, 1986.
- 25. Briscoe, J. "Estimating water demand in developing countries," <u>Anais do Simposio Internacional</u> <u>sobre Economia de Agua de Abastecimento Publico</u>, IPT, São Paulo, pp. 53-61, Oct. 1986.
- 26. Briscoe, John, "False comparisons: A false choice," <u>Decade Watch</u>, United Nations' Development Program, vol. 5, no. 1, New York, 1986.
- Briscoe, John, "Water supply and health: Selective primary health care revisited," in <u>Proceedings</u> of the World Bank International Conference on Oral Rehydration Therapy, Washington, DC, pp. 141-150, 1984; reprinted in <u>Health Habitat and Development</u>, J. Tulchin (ed.), Lynne Reinner Publ. Inc., Boulder, Colorado, 1986.
- 28. Young, B., J. Briscoe, and J. Baltazar, "Water supply, sanitation and diarrhea: Improved facilities," <u>Dialogue on Diarrhoea</u>, vol. 30, p. 5, 1987.
- Briscoe, John, "A role for water supply in the Child Survival Revolution?," <u>Bulletin of the Pan</u> <u>American Health Organization</u>, Vol. 21, No. 2, pp. 93-105, 1987; reprinted, in Spanish, as "Abastecimento de agua y servicios de saneamiento. Su funcion en la revolucion de la superviviencia infantil," <u>Bol Of Sanit Panam</u>, vol. 103, no. 4, pp. 325-338, 1987.
- 30. Briscoe, John and Michael Porter, "Health and habitat in urban areas," <u>The Review of Population</u> <u>and Development</u>, vol. 14, no. 2, pp. 3-5, 1987.
- 31. Briscoe, John, "Ingested dose and diarrhea transmission routes," <u>American Journal of Epidemiology</u>, vol. 125, no. 5, pp. 921-925, 1987.
- 32. Briscoe, John, "The use of public resources for water supply and sanitation projects in developing countries," <u>Aqua</u>, vol. 3, pp. 137-143, 1987.
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- Young, B and J. Briscoe, "A case-control study of the effect of environmental sanitation on diarrhoea morbidity in Malawi," <u>Journal of Epidemiology and Community Health</u>, vol. 42, no. 1, pp. 83-88, March 1988.
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- 40. Whittington, D., J. Briscoe, X. Mu, and W. Barron, "Estimating the willingness to pay for water services in developing countries: A case study of the use of contingent valuation surveys in southern Haiti," <u>Economic Development and Cultural Change</u>, vol. 38, no. 2, pp. 293-311, 1990.
- 41. Eng, E., J. Briscoe, and A. Cunningham, "Participation effect from water projects on immunization," <u>Social Science and Medicine</u>, vol. 30, no. 2, pp. 1349-1358, 1990.
- 42. Mu, X., D. Whittington, and J. Briscoe, "Modelling village water demand behavior: A discrete choice approach," <u>Water Resources Research</u>, vol. 26, no. 4, pp. 521-529, 1990.
- 43. Popkin, B., J. Akin, R. Black, J. Briscoe, and W. Flieger, "Breastfeeding and diarrheal morbidity," <u>Pediatrics</u>, vol. 86, pp. 874-882, 1990.
- 44. Briscoe, J., P. F. de Castro, C. Griffin, J. North, and O. Olsen, "Toward equitable and sustainable rural water supplies: A contingent valuation study in Brazil," <u>The World Bank Economic Review</u>, vol. 4, no. 2, pp. 115-134, May 1990.
- 45. The Cebu Study Team (J. Briscoe, first author), "Underlying and proximate determinants of child health: The Cebu longitudinal health and nutrition study," <u>American Journal of Epidemiology</u>, vol. 133, no. 2, pp. 185–201, 1991.
- Briscoe, John, "Energy use and social structure in a Bangladesh village," <u>Population and Development Review</u>, vol. 5, no. 4, pp. 615-641, December 1979; reprinted in <u>Sociology of Natural</u> <u>Resources</u>, M.R. Dove and C. Carpenter (eds.), Vanguard Press, 1992.
- 47. The Cebu Study Team (J. Briscoe, co-author), "A child health production function estimated from longitudinal data," <u>Journal of Development Economics</u>, vol. 38, pp. 323-351, 1992.
- 48. World Bank: <u>The World Development Report 1992, on the Environment and Development</u>, coauthor of overall report and author of Chapter 5, "Clean water and sanitation," pp. 98-113, World Bank, Washington DC, 1992.
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- 50. Briscoe, John, "Incentives are the key to improving water and sanitation services," <u>Water and</u> <u>Wastewater International</u>, vol. 8, no. 2, pp. 28-36, 1993.
- 51. The World Bank Water Demand Research Team (J. Briscoe, first author), "The demand for water in rural areas: Determinants and policy implications," <u>The World Bank Research Observer</u>, vol. 8, no. 1, pp. 47-70, 1993.
- 52. Briscoe, John, "When the cup is half full: Improving water and sanitation services in the developing world," <u>Environment</u>, vol. 35, no. 4, pp. 6-15 and 28-37, 1993.
- 53. Vanderslice, J., and J. Briscoe, "All coliforms are not created equal: A comparison of the effects of water source and in-house contamination on infantile diarrheal disease," <u>Water Resources</u> <u>Research</u>, vol. 29, no. 7, pp. 1983-1996, 1993.
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- 56. Briscoe, J., "Systemic and focussed health interventions: What should be done and when should it be done?," in <u>Colloquium on International Health and Development for the 90s</u>, Johns Hopkins University, Baltimore, 1993.
- 57. Briscoe, J., and Andrew Steer, "New approaches to structural learning—A process of structural learning," <u>Ambio</u>, vol. 22, no. 7, pp. 456-459, 1993.
- 58. Briscoe, J., and Mike Garn, "Financial resources and mechanisms for sustainable development: Financing of Freshwater for Sustainable Development," prepared for <u>The UN Commission on</u> <u>Sustainable Development</u>, 30 pages, New York, 1994.
- 59. Vanderslice, J., B. Popkin, and J. Briscoe, "Drinking water quality, sanitation and breast-feeding: Their interactive effects on infant health," <u>Bulletin of the World Health Organization</u>, vol. 72, no. 4, pp. 589-601, 1994.
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- 61. Briscoe, J., "Implementing the new water resources policy consensus: Lessons from good and bad practices," pp. 87-100 in <u>Putting Dublin/Agenda 21 into Practice: Lessons and New Approaches in</u> <u>Water and Land Management</u>, J. Lundqvist and T. Jonch-Clausen (eds.), Linkoping, Sweden, 1994.
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- 63. Briscoe, J., and Mike Garn, "Financing water supply and sanitation under Agenda 21," <u>Natural</u> <u>Resources Forum</u>, vol. 19, no. 1, pp. 59-70, 1995.
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- Briscoe, J., "Der Sektor Wasser und Abwasser in Deutschland -- Qualität seiner Arbeint, Bedeutung füur Entwicklungsländer," <u>Gas- und Wasserfach: Wasser-Abwasser</u> (Munich), vol. 136, no. 8, pp. 422-432, 1995.
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- 69. Briscoe, John, "The value of water: A global perspective," in <u>The Convergence of US National</u> <u>Security and the Global Environment, Aspen Institute</u>, Washington DC, pp. 19-28, 1997.
- 70. Briscoe, John, "Financing and managing water and wastewater services: A global perspective," in <u>Proceedings of the Australian Water and Wastewater Association</u>, pp. 25-44, Melbourne, 1997.
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- 76. Briscoe, John, "The financing of water infrastructure in developing countries," <u>The UN Commis-</u> sion on Sustainable Development, New York, January 1998.
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