

CURRICULUM VITAE

Name : Eriyagama
First Name : Nishadi
Year of Birth : 1970
Nationality : Sri Lankan

KEY QUALIFICATIONS

Nishadi Eriyagama has over ten years work experience in water resources and environmental engineering as well as hydrological estimation and analysis. Before joining IWMI, she worked as a civil engineer at Sri Lanka Land Reclamation and Development Corporation (SLLR&DC) for seven and a half years. At SLLR&DC, she carried out extensive work in hydrology and drainage, including computer modeling of drainage basins under road, building and golf course construction projects. In addition, she was also involved in Environmental Impact Assessment studies for several innovative projects in Sri Lanka.

Her Masters research is on improvement of water quality in Colombo drainage canals. Integrated Water Resources Management, Watershed Management, Environmental Hydrology, River Engineering, Water and Waste Water Engineering, Ecological Engineering and Lake Environment Management and also Estuary and Coastal Engineering were some of the key areas in her postgraduate studies. Nishadi joined IWMI in November 2004 as a water resources engineer. At IWMI, she developed tools for estimating water productivity and for classification of areas into crop suitability classes on a global scale – as part of the international initiative known as Comprehensive Assessment of Water Management in Agriculture. She is actively involved in IWMI's research on environmental flows, focusing on the development of hydrology-based environmental flow assessment methods and tools, such as global EF-calculator software package. She manages the IWMI drought information web portal. Nishadi is a Chartered Engineer and a corporate member of the Institution of Engineers (IESL), Sri Lanka. She won the award for the best technical paper in the competition conducted by IESL and sponsored by Anton in 2007.

EDUCATION

2008	Masters Degree in Environmental Water Resources Engineering, University of Moratuwa, Sri Lanka
2004	Corporate Member of Institution of Engineers (IESL), Sri Lanka; Chartered Engineer
2001	Postgraduate Diploma in Environmental Water Resources Engineering University of Moratuwa, Sri Lanka
1996	B.Sc. in Civil Engineering University of Peradeniya, Sri Lanka

LANGUAGE SKILLS

	<u>Written</u>	<u>Spoken</u>
English	fluent	fluent

Sinhala

fluent

fluent

PROFESSIONAL EXPERIENCE

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| 2005-to date | Water Resources Engineer, International Water Management Institute (IWMI), Colombo, Sri Lanka. |
| 1997-2005 | Civil Engineer, Sri Lanka Land Reclamation and Development Corporation, Colombo, Sri Lanka |
| 1996-1997 | Instructor, Department of Civil Engineering, University of Peradeniya, Sri Lanka |

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

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| 2004-to date | Corporate Member of Institution of Engineers (IESL), Sri Lanka |
| 1999-2004 | Associate Member of Institution of Engineers (IESL), Sri Lanka |
| 2000-2003 | Member of Environmental Monitoring Committee of Colombo Katunayake Expressway, Sri Lanka |
| 2004-2005 | Member of Environmental Monitoring Committee of Southern Highway, Sri Lanka |
| 2002-2005 | Member of Environmental Monitoring Committee of Outer Circular Highway, Sri Lanka |
| 2002-2005 | Member of Environmental Monitoring Committee of Golf Course Project, Battaramulla, Sri Lanka |
| 2002-2003 | Member of Steering Committee of Environmental Study of Kaduwela, carried out by University of Moratuwa, Sri Lanka |

LIST OF KEY ASSIGNMENTS AND PROJECTS

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| 2009 | Review of Climate Change related research/activities in Sri Lanka with respect to water resources and agriculture sectors, IWMI, Sri Lanka |
| 2008 | Mapping drought patterns and impacts through indices on a global scale, IWMI, Sri Lanka |
| 2006-2007 | Developing a Software Package for Global Desktop Assessment of Environmental Flows, IWMI, Sri Lanka |
| 2005 | Global mapping of Water Productivity of Crops and Livestock Products, IWMI, Sri Lanka |

- 2002-2004 **Golf Course Project, Battaramulla, Sri Lanka**
Carrying out hydrological modeling and drainage designs and also project supervision
- 2004 **Environmental Impact Assessment of Colombo Organic Waste Treatment Plant Project, Sri Lanka**
Commented on Water Quality Aspects
- 2004 **Environmental Impact Assessment of Theme Park and Spa Resorts, Kotte, Sri Lanka**
Commented on Water Quality Aspects
- 2002-2003 **Outer Circular Highway Project, Sri Lanka (Funded by JBIC)**
Carrying out hydrological studies
- 2000-2001 **Colombo Katunayake Expressway Project, Sri Lanka (Funded by ADB)**
Carrying out hydrological studies
- 1999-2002 **Greater Colombo Flood Control and Environment Improvement Project (Funded by JBIC)**
Active involvement in Drainage Designs
- 2001-2002 **Storm Water Drainage Master Plan for Colombo Metropolitan Region (Funded by JICA and JBIC)**
Provided specialist support to experts (Nippon Koei)
- 1998-2000 **Residence and Secretariat complex for Head of Government at Madiwela, Sri Lanka**
Carrying out hydrological modeling and drainage designs
- 1997-1998 **Reclamation of low lying land for Courts Complex, Kandy, Sri Lanka**
Carrying out hydrological modeling and drainage designs and also project supervision

AWARDS

- 2007 Best Technical Paper – Over 35 years of age at competition for Awards for Best Articles on “INFRASTRUCTURE FOR SUSTAINABLE DEVELOPMENT OF WATER AND OTHER NATURAL RESOURCES” – Session 2006/2007 conducted by Institution of Engineers, Sri Lanka (IESL), and sponsored by St. Anthony’s Industries Group (PVT) Ltd.
- 2000 Asian Development Bank (ADB) Scholarship to follow Postgraduate Studies in Environmental Water Resources Engineering at University of Moratuwa
- 2000 Presidential Scholarship Award for young people to follow postgraduate studies at a Sri Lankan University

PUBLICATIONS

1. De Fraiture, C., Wichelns, D., Rockstrom, J., Kemp-Benedict, E., Eriyagama, N., Gordon, L. J., Hanjra, M. A., Hoogeveen, J., Huber-Lee, A., Karlberg, L., Ch3: "Looking ahead to 2050: scenarios of alternative investment approaches", *Comprehensive Assessment of Water Management in Agriculture, 2007, Water for Food, Water for Life: A Comprehensive Assessment of Water Management in Agriculture*, London: Earthscan, and Colombo: International Water Management Institute.
2. Smakhtin, V., Eriyagama, N., "Developing a Software Package for Global Desktop Assessment of Environmental Flows", *Environmental Modelling and Software*, 2008, 23 (2008) 1396–1406
3. Eriyagama, N., Ratnayake, N., "Decision Support Tool for Colombo Canal System Water Quality Monitoring", *Engineer – Journal of the Institution of Engineers, Sri Lanka*, 2008, Vol. XXXXI, No. 01, pp. 24-33, 2008
4. Bharati, Luna, Eriyagama, Nishadi, Smakhtin, Vladimir, "Environmental Flows: Moving from Concepts to Application", 2008, *Journal of the Japanese Society of Irrigation, Drainage and Rural Engineering*, Vol.76 / No. 5, 2008 (in Japanese)
5. "DEVELOPMENT OF A DECISION SUPPORT TOOL FOR MONITORING WATER QUALITY OF THE COLOMBO CANAL SYSTEM", 2008, Master's Thesis
6. Eriyagama, N.; Smakhtin, V.; Gamage, N. 2009. Mapping drought patterns and impacts: a global perspective. Colombo, Sri Lanka: International Water Management Institute. 31p. (IWMI Research Report 133)

TECHNICAL REPORTS

1. Bharati, Luna, Eriyagama, Nishadi, 2008, "Calculation of Environmental Flows within the Major Tributaries of the Volta Basin, West Africa", Consultancy Report prepared by International Water Management Institute, Colombo, Sri Lanka for the Glowa Volta Project, Center for Development Research (ZEF).

POSTERS

1. Smakhtin, V., Finlayson, M., Dissanayake, P., Eriyagama, N., Bharati, L., Anputhas, M., "Global and Basin Scale Assessments of Environmental Water Allocations for Delivery of Ecosystem Services", *Global Environmental Change: Regional Challenges, an ESSP Open Science Conference*, 9-12 November, 2006

CONFERENCE/WORKSHOP PRESENTATIONS/PAPERS

1. "Decision Support Tool for Colombo Canal System Water Quality Monitoring" - Paper presented for the Competition on "Infrastructure for Sustainable Development of Water and Other Natural Resources," Session 2006-2007 conducted by the Institution of Engineers (IESL), Sri Lanka, September 2007

2. "Decision Support Tool for Colombo Canal System Water Quality Monitoring", Presentation made at the Masters Defense. March 2008
3. Eriyagama, Nishadi; Smakhtin, Vladimir. 2009. How prepared are water and agricultural sectors in Sri Lanka for climate change?: a review. Paper presented at the Water for Food Conference: national conference addressing water management issues, food security, environment and climate change in Sri Lanka, organized by the International Water Management Institute, Irrigation Department (Sri Lanka), Department of Agriculture (Sri Lanka), Hector Kobbekaduwa Agrarian Research and Training Institute, held at the Bandaranaike Memorial International Conference Hall, Colombo, Sri Lanka, 9 - 11 June 2009. 25p.
4. Eriyagama, Nishadi; Smakhtin, Vladimir; Mir Matin, Lalith Chandrapala, Karin Fernando. 2009. Climate Change and Sri Lanka's Water Future. Invited presentation made at the Technical Workshop on Vulnerability and Adaptation in the Water Resources Sector organised by the Water Resources Board for preparation of Sri Lanka's Second National Communication on Climate Change to the UNFCCC. Colombo, Sri Lanka, 25 September 2009

INTERNAL PRESENTATIONS

1. "Global Environmental Flow Calculator", Friday Seminar, June 2007.