

Ratnayake Mudiyansele Sanjaya Kumara Ratnayake

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PERSONAL PROFILE



- Full Name : Ratnayake Mudiyansele Sanjaya Kumara Ratnayake
- Date of Birth : 11th October 1964
- Age : 60 years
- Gender : Male
- Civil Status : Married
- Nationality : Sri Lankan (Sinhala)
- Religion : Buddhism

ACADAMIC QUALIFICATIONS

- B.Sc. Special Degree in Chemistry, with Physics as the subsidiary subject, 1988, University of Peradeniya, Sri Lanka
- Ph.D. in Chemistry, 1995, University of Peradeniya, Sri Lanka
- Diploma in Chemistry and Chemical Engineering, 1996, Tokyo Institute of Technology, Tokyo, Japan (31st UNESCO Course)
- Bachelor of Law (LLB), Open Univ. of Sri Lanka, Nawala, 2017.

PROFESSIONAL QUALIFICATIONS

- Chartered Chemist from 1997.
- Member of the Institute of Chemistry Ceylon, Sri Lanka from 1997.
- Attorney-at-Law, 2020 April.
- Director of Academic Studies, Naval & Maritime Academy, Trincomalee, From 2003 to 2005 (Volunteer Officer as a Captain- Sri Lanka Navy).
- Worked as a Visiting Lecturer for Environmental Science at Rajarata University of Sri Lanka in 2002/2003.

- Working as a Visiting Lecturer for Laws and Regulations on Water Pollution Control at Sri Jayawardenapura University of Sri Lanka.
- Working as a Visiting Lecturer at Post Graduate Institute of Engineering, University of Peradeniya.
- Worked as a member of the Advisory Committee for Appliance Energy Labelling in Sri Lanka Sustainable Energy Authority.
- Worked as a Technical Evaluation Committee Member for Pollution Control Sector in Environmental Impact Assessment Processes.
- Worked as a Working as the Sri Lanka Focal Point for the Water Environment Partnership of Asia (WEPA) Programme (Japan).
- Worked as the Sri Lanka Focal Point for the Chemical Accident Prevention Project Funded by UNEP.
- Worked as a Member of the National Mirror Committee on Environmental Management, Sri Lanka Standard Institute.
- Worked as a Member of the Project Proposal Evaluation Committee at Ministry of Industries.
- Member of the Technical Evaluation Committee for the Export Award
- Worked as a Member of the Technical Expert Committee for the Setting up of Mercury Waste threshold, UNEP
- Member of the panel of Judges for the NCPC Awards.
- Worked as a Member of the Evaluation Committee member for Green Reporting Programme, Min. of Environment

APPOINTMENTS HELD

- Research Assistant, Dept. of Chemistry, University of Peradeniya, Sri Lanka, (August 1988– August 1990, Sept. 1991 – 1991 August 1993 and March 1994 – June 1995)
- Research Fellow, Organic Chemistry Dept., Arrhenius Laboratory, Stockholm, University, Sweden. (Sept 1990 – August 1991 and Sept. 1993 – Feb. 1994)

- Research Officer, Dept. of Chemistry, University of Peradeniya, Sri Lanka (July 1995 – Sep 1995)
- UNESCO Fellow, Tokyo Institute of Technology, Japan (Oct. 1995 – Sept.1996)
- Research Officer, Dept. of Chemistry, University of Peradeniya, Sri Lanka (Oct 1996-Jan 1997)
- Research Officer, Dept. of Botany, University of Peradeniya, Sri Lanka (Feb. 1997 – July 1997).
- Research Officer, Biochemistry Division, Tea Research Institute, Talawakele, Sri Lanka (August. 1997 – May 1998).
- Assistant Director, Central Environmental Authority, 104, Robert Gunaawardena Mawatha, Battaramulla, Sri Lanka. (June 1998 – September 2003)
- Director of Academic Studies (As a Commander/SLN), Naval & Maritime Academy, Naval Base Trincomalee, Sri Lanka (16th June 2003- December and 2003 September 2004- December 2005)- (Granted Duty Leave from the Post of Assistant Director - Regional Office, Central Environmental Authority)
- Deputy Director, Central Environmental Authority, Sri Lanka. (September 2003 –May 2006)
- Director (Environmental Pollution Control), Central Environmental Authority, Sri Lanka. (Jun 2006 –April 2015)
- Acting Deputy Director General (Environmental Pollution Control), Central Environmental Authority, Sri Lanka. (April 2015- July 2017)
- Director (Environmental Pollution Control), Central

Environmental Authority, Sri Lanka. (July 2017 to February 2021)

- Acting Deputy Director General (Environmental Pollution Control), Central Environmental Authority, Sri Lanka. (March 2021- May 2021)
- Deputy Director General (Environment Protection), Central Environmental Authority, Sri Lanka. (June 2021 - Oct 2024)
- Environment Consultant (part time), Daiki Axis Environment Pvt. Ltd., Pattiwila Road, Gonawala, Kelaniya, and Practicing as a Lawyer, Working as a Legal and Environmental Consultant (Free-Lance) (Nov. 2024 to date)

RESEARCH AND WORKING EXPERIENCE

Obtained training on analytical instruments such as NMR, GC, GC-MS, FAB-MS, HPLC etc in foreign laboratories as well as in local laboratories for more than 14 years. After completing Ph.D. degree I participated in the 31st International courses for Advanced Research in Chemistry and Chemical Engineering held at Tokyo Institute of technology Japan, and then joined to the pest control project in Tea Research Institute, Sri Lanka. After joining to the CEA, I have gained more experience on environmental pollution control activities in the posts of Assistant Director and Deputy Director for 8 years. In addition to that I gained knowledge and experience in office administration and human resource management in addition to the technical experience mentioned above. Also obtained more experience on preparation and implementation of work plans and action plans during that period. As the Director of Academic Studies and as a Commissioned Naval Officer I gained better experience on administration and planning of an Educational Training Institute. As the Director (Environmental Pollution Control) I have six years experience in handling of

technical matters in environment and also administrative experience in higher managerial level. Also during my service in Central environmental Authority I have participated many international and local training programmes, workshops and conferences in the environment sector and obtained experience and exposure in industrial processes and pollution control. I have much experience in handling Environment Impact Assessment (EIA) and Cleaner Production Technologies, Green energy and Green technologies in environment sector.

I represented CEA as a co-member for the Research Project on Development of Pollution Control and Environment Restoration Technologies of Waste landfill Sites Taking into Account Geographical Characteristics in Sri Lanka conducted by Faculty of Engineering, University of Peradeniya, Sri Lanka (2011-2016). From the graduation I have more than 35 years working experience in research and environment fields in different executive grade posts to date. Also I am engaging in industrial pollution control activities including emissions from 1998 to date.

Currently I am engaging with improvement of the Environment Protection Licence (EPL) system to obtain carbon emission data from industry sector.

**WORKSHOPS AND
TRAININGS
ATTENDED****A. International:**

- Workshop on Environmental Protection technology and management at Korean Institute of Technology, Korea, from 25th Oct. to 07th Nov., 1998, as a participant.
- Environmental Management for Sustainable Development in India, from January 2006 to March 2006.
- Annual Forum of the Asia Environment Compliance and Enforcement Network (AECEN) Programme, China, (3 Days), December 2007.

- Annual Forum of the Asia Environment Compliance and Enforcement Network (AECEN) Programme, Indonesia, (3 Days), November 2008.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Vietnam, (3 Days), March 2010.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Japan, (2 Days), February 2011.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Philippine, (3 Days), September 2011.
- Training Programme on Green Business Developments in Developing Countries, Korea, (10 days), February 2012.
- Training Programme on Environment Management and Pollution Control in Waste Landfill Sites, Saitama University, Japan, 09th -22nd September 2012.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Cambodia, (3 Days), February 2013.
- Training on Chemical Accident Prevention and Preparedness in Thailand, (4 days), May 2013.
- Technical Session of the Asia Pacific Water Forum in Thailand, (3 days), May 2013.
- SATREPS Project Business Trip to Saitama University, Japan, to accompany Chairman CEA, from 27th October to 2nd November 2013.
- UNEP Meeting on Chemical Accident Prevention in

Paris, France, From 4th to 8th November 2013.

- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Japan, (3 Days), January 2014.
- Workshop on Risk Assessment in China, (2 days), May 2014.
- Training on Global Harmonized System for chemical labelling, Thailand, (3 days), August 2014.
- SATREPS Project Training Programme on Solid Waste Management and Waste Disposal, Japan, from 19th to 25th January 2015.
- Regional Conference on Advances in Environmental Compliance in Asia, Thailand, 21st to 23rd September 2015.
- Training on Water Environmental Systems and Administrative Management, Japan, 30th November to 10th December 2015.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Lao-PDR, (3 Days), 25th – 27th January 2016.
- Green Environment Summit, Environment Regulators Round Table, Singapore, (2 days) 12th to 13th July 2016.
- Training Programme on Wastewater Treatment by Ozone (Jet Swirling method), Tokyo, Japan, 22nd - 26th August 2016.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Hanoi, Vietnam, (3 Days), 28th -30th November 2016.

- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Jakarta, Indonesia, (3 Days), 26th -28th February 2017.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Tokyo, Japan, (3 Days), 21st -23rd February 2019.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Bangkok, Thailand, (3 Days), 6th -8th February 2020.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Siam Reap, Cambodia, (3 Days), 08th -10th February 2023.
- Meeting of the Technical Expert Group on Mercury Waste Threshold, Geneva, Switzerland, 16th to 18th February 2023.
- Signing of MOU with Environment Department of Hong Kong and CEA on Water Quality Monitoring Training, Hong Kong, China, 16th–18th September 2023.
- Annual Forum and Meeting of Water Environment Partnership in Asia Programme, Tokyo, Japan, (3 Days), 30th January-1st February 2024.

B. National:

- Workshop on techniques and applications of gas chromatography/ mass spectrometer at CISIR, from 2nd Oct. to 6th Oct., 1989, as a participant.
- National workshop on chromatography at Peradeniya University, from 19th Oct. to 22nd Oct., 1989, as a

workshop assistant.

- Regional workshop on chromatography and carbohydrate containing natural products at Peradeniya University, from 12th July to 16th July, 1989, as a workshop assistant.
- Course of Study on Computer Training at Sri Lanka Institute of Development Administration, from 19th to 23rd July, 1999.
- Course in Excellence in Written Communication and Report Writing Skills, at The Institute of Government Accounts and Finance, 8th and 9th of June 2000.
- Intensive Training Course on Environment Impact Assessment at Anuradapura, from 2nd to 11th November 2000.
- Training Course on Performance Appraisal, at Sri Lanka Institute of Development Administration, from 02nd to 04th May 2001
- Training Course on Public speaking and presentation techniques at Sri Lanka Institute of Development Administration, from 12th to 14th Dec. 2001.
- Workshop on Project Proposal Development, Sri Lanka Foundation Institute, on 30th to 31st March 2009.
- Green Chemistry Towards Safer Industrial Practices and Environmental Protection, Institute of Chemistry Ceylon, on 24th March 2010.
- Training Course on Managing Water Pollution, UNEP and UNEP-DHI Centre for Water and Environment, at Marawila, Sri Lanka, 2nd to 06th May 2011.
- Workshop on Cleaner Production Technology,

National Cleaner Production Centre, Sri Lanka, June 2011.

- Workshop on Waste to Energy Potential for Sri Lanka, Sri Lanka Association for Advancement of Science (SLAAS), on 4th July 2012.
- Second International Symposium on Water Quality and Human Health, Post Graduate Institute of Science, University of Peradeniya, Sri Lanka, on 15th& 16th March 2013, Involved as a member of the Organizing Committee and the Editorial Board.
- Conference on Sri Lanka-Japan Collaborative Research 2013, University of Peradeniya, Sri Lanka, from 29th to 31st March 2013.
- Programme on How to Start, Develop and Promote Eco-labels, UN Environment, Colombo, Sri Lanka, 11th to 12th June 2018.
- Training Programme on Consultant Development in GHG Assertion (Carbon Footprint Calculation), Based on ISO 14064-1, 2, 3 and ISO 14067 Standards. By NCPC, Colombo, Sri Lanka, 14th -15th August 2018.

MEMBERSHIPS

- A member of Alumni Association, University of Peradeniya, 1995
- A member of Institute of Chemistry, 1997
- A member of the Bar Association, Sri Lanka
- Board Member of the Agriculture Engineering, Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka
- Member of the Judge Panel of the National Cleaner

- Member of the Judge Panel of the National Exporters Awards

RESEARCH PUBLICATIONS

1. Research Publications in Refereed Journals.

- Structural studies of extracellular polysaccharide from *Butyrivibrio fibrisolvens* strain X6C61, Mats Andersson, Sanjaya Ratnayake, Lennart Kenne, Linda Eeicsson and Robert J.Stack, *Carbohydr. Res.*, 246 (1993), 291- 301.
- Structural studies of the *Escherichia coli* 090 O-antigen polysaccharide, Sanjaya Ratnayake, Goran Widmalm, Andrej Weintraub, and Ernesto C. Medina, *Carbohydr. Res.*, 263 (1994), 113-120.
- Structural studies of the enterotoxigenic *Escherichia coli* (ETEC) 0153 O-antigenic polysaccharide, Sanjaya Ratnayake, Andrej Weintraub, and Goran Widmalm, *Carbohydr. Res.*, 265 (1994), 113-120.
- Selective cleavage of welan gum (S-130) by oxidative decarboxylation with lead tetraacetate. N.Savitri Kumar, R.M.Sanjaya K. Ratnayake, Goran Widmalm, and Per-Erik Jansson, *Carbohydr. Res.*, 563 (1996).

2. Research Communications:

- Composition of the polysaccharides produced by *Colletotrichum capsici* and *Colletotrichum gleosporioids*, S.W.Kalpage, N.Savitri Kumar, R.M.S.K. Ratnayake, K.M.Swarna Wimalasiri and

N.K.B.Adikaram, Proc. Sri Lanka Assoc. Adv. Sci., 44 (1988), 195.

- The Oxidative Cleavage of acetylated S – 130 the extracellular polysaccharide elaborated by *Alcaligenes* ATCC 31555 using lead tetraacetate, N.Savitri Kumar, R.M.S.K. Ratnayaka, and B.Lindberg, Proc. Sri Lanka Assoc. Adv. Sci., 46 (1990), 151 – 152
- An extracellular polysaccharide from *Colletotrichum capsici*, N.Savitri Kumar, R.M.S.K.Ratnayake, and N.K.B.Adikaram, Proc. Sri Lanka Assoc. Adv. Sci., 48 (1992), 123 – 124.
- Structural studies of the extracellular polysaccharide from *Butyrivibrio fibrisolvens* strain X6C61, Mats Andersson, Sanjaya Ratnayake, Lennart Kenne , Linda Ericsson and Robert J.Stack, XVI International Carbohydr. Symp., (July 1992), Paris, France, p. 564.
- Selective depolymerisation of welan gum (S-130) using lead tetraacetate, N.Savitri Kumar and Sanjaya Ratnayake, Research Session, Faculty of Science, Univ. of Peradeniya, 5th Nov. 1994, p.10
- Phytoalexins from *Phylosticta musarum* infected banana fruits var. Embul., Sanjaya Ratnayake, Charmalie Abayasekara and N.K.B.Adikaram, Research Session, Faculty of Science Univ. of Peradeniya, 5th July 1997, p.20.
- Resistance of banana fruits to fungal disease: an Overview, C. Abayasekara, S.Ratnayake, and

N.K.B.Adikaram, ACIAR Proceedings, (1997)

- Development of Pollution Control and Environment Restoration Technologies of Waste landfill Sites in Sri Lanka, K.Kawamoto, L.C. Kurukulasuriya, N.H. Priyankara, K.B.S.N. Jinadasa, C.S. Kalpage, G.B.B. Herath, M.I.M. Mowjood, W.K.C.N. Dayanthi, A.M.N. Alagiyawanna, S. Hamamoto, J. Yagisawa, S. Asamoto, T. Komatsu, M. Vithanage, S. Ratnayake, L. Mangalika, Conference on Sri Lanka-Japan Collaborative Research 2013.
- Formulate Concept of Guideline for Planning, Management and Maintenance for Waste Landfills in Sri Lanka, Conference on Sri Lanka-Japan Collaborative Research 2013.

REFEREES

1. Prof. Gemunu Herath

Senior Professor
Faculty of Engineering, Univ. of Peradeniya
Peradeniya
Tel: 094 (0) 77 -3689838

2. Prof. Swarna Wimalasiri

Senior Lecturer, Department of Food Science
& Technology
Faculty of Agriculture
University of Peradeniya
Peradeniya
Tel: 094 (0) 77 - 3569609

I do hereby certify that the above particulars given by me are true and correct to the best of my knowledge. If I'm offered an opportunity to serve in your esteemed organization I can assure you that I shall always perform my duties with commitment & loyalty.

Date

R.M.S.K. Ratnayake

Recommendations for Protection and Management of the Environment

1. Development of the country is essential but the issue is how we can do it without compromising the environment.
2. As a country we should look at the environment issues as a holistic manner and not to consider as isolated issues. Then only we can find sustainable solutions for the management of the environment.

- 3.Environmental related legislations are sufficient and enough to protect and manage the whole environment of the country but have many issues when we are implementing them.
- 4.There are many institutions which are handling different environment sectors. All relevant environmental subject areas to be handled by at least under a single ministry.
- 5.Then the coordination will be easier and any relevant issue can be handled up to the final solution.
- 6.Zoning of the country should be legalized and hi polluting industries to be located at industrial parks with providing whole infrastructure facilities.
- 7.Enhance the wastewater treatment facilities for industrial and domestic wastewater.
- 8.Develop well established systems for monitoring of the ambient levels of water as well as the air and emissions and discharges by any human activities

