



Department of Geology Faculty of Science / University of Peradeniya



Dr. Nadeesha H. Koralegedara

B.Sc. (Perad.), M.S., Ph.D. (Cincinnati, USA)

Senior Lecturer

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About Me

I am a senior lecturer attached to the Department of Geology, University of Peradeniya, Sri Lanka. I am dedicated to nurturing the next generation of geoscientists and environmental stewards. I believe in fostering a stimulating learning environment that encourages critical thinking, inquiry-based learning, and hands-on field experiences. My goal is to equip students with the knowledge and skills needed to tackle real-world environmental issues through a solid foundation in geology and interdisciplinary approaches. My research is mainly focused on Environmental Geology / Low temperature Geochemistry. I am particularly fascinated by how geological processes influence environmental change and vice versa, with a keen focus on low-temperature geochemistry as a tool for unraveling complex environmental phenomena.

Higher Education Qualifications

🎓 **PhD**

University of Cincinnati
USA
(2016)

🎓 **MSc**

University of Cincinnati
USA
(2011)

🎓 **BSc**

University of Peradeniya
Sri Lanka
(2007)

Awards, Scholarships, Memberships & Fellowships



Excellence in Teaching Award - 2024 - University of Peradeniya



Certificate of merit award for outstanding oral presentation titled “Leachability of metals from FGD gypsum used in agricultural purpose” – awarded by the American chemical society, division of environmental chemistry. Received March 16 -20, 2014.



Presidential award for scientific publications – awarded by National Research Council (NRC) of Sri Lanka. Received January 17, 2014



University award for academic excellence – University of Peradeniya, Sri Lanka, received 2008.



• P.W. Vitanage memorial scholarship for academic excellence - awarded by Geological Society of Sri Lanka (GSSL), received 2007.

Positions Held



Senior Lecturer (ii)- (2017 December - Present)



Co-Editor - Journal of Geological Society of Sri Lanka (JGSSL)- (2018 February - 2020 February)



Grant coordinator - AHEAD-DOR (Geology)- (2018 May - 2023 December)










Secretary - Environmental Science Program- (January 2020 - March 2024)



Senior Treasurer - Environmental Science Society of University of Peradeniya- (2020 - present)





My Teachings

-  AS409: Industry and the Environment
-  EN405: Waste and Waste Management
-  GL101: Geological Processes
-  GL103: Earth Materials
-  GL219: Introductory field and structural geology
-  GL317: Sedimentology
-  GL414: Advanced Environmental Geology

Research Interests (Research Fields/ Projects)

Surface geochemistry, Environmental Geology, Waste Management, Value addition to minerals

Ongoing Research and Projects

-  **Utilization of red earth deposit in northwestern coastal belt as an economic deposit**
-  **Beneficial application of construction & demolition waste to treat contaminated water**
-  **Geochemical characterization of gallbladder stones**
-  **Assessment of aquifer quality in relation with chronic kidney disease with unknown etiology in dry zone of Sri Lanka through an integrated approach using isotopes and hydrogeochemistry**

Key Publications



Nothing to show under this subheading !!!

Conferences



35th Annual Technical Sessions of Geological Society of Sri Lanka

HELD AT : Oak Ray Hotel, Kandy, Sri Lanka - (February 22nd, 2019)

TOPIC : *Accumulation of elements in Ipomea aquatica and Amaranthus spinosus growing at municipal solid waste dumping site, Gohagoda, Kandy, Sri Lanka*



249th American chemical society (ACS) National Meeting

HELD AT : Denver, CO, USA - (March 22-26, 2015.)

TOPIC : *Use of Flue Gas Desulfurization (FGD) gypsum as an in-situ heavy metal stabilizer in contaminated soil*



243rd GSA National Meeting,

HELD AT : Minneapolis, MN, USA - (September 25-29, 2011)

TOPIC : *Chemical, Mineralogical and Textural changes of Kope Formation shale*

My Publications

Please goto the website.

<https://sci.pdn.ac.lk/geology/staff/Nadeesha-Koralegedara>