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	MSc	BSc
University of Cincinnati USA (2016)	University of Cincinnati USA (2011)	University of Peradeniya Sri Lanka (2007)

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Awards, Scholarships, Memberships & Fellowships

- Excellence in Teaching Award - 2024 - University of Peradeniya
- Excellence in Research - 2024 - University of Peradeniya
- NRC merit award for Scientific Research - 2019
- 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.

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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 - 2024)
- Senior Student Counselor - University of Peradeniya- (2019 - present)

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My Teachings

- APS4092: Industry and the Environment
- ENS4233: Waste and Waste Management
- GEO1013: Geological Processes
- GEO1041: Earth Materials
- GEO2023: Introductory Petrology
- GEO3052: Sedimentary petrology
- GEO4073: Quaternary Geology
- GEO4123: Advanced Sedimentary Petrology

Research Interests (Research Fields/ Projects)

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

Ongoing Research and Projects

- **Development of a natural filter for antibiotics removal and in-situ degradation**
- **Microplastics degradation in soil using geological materials**
- **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**
- **Utilization of red earth deposit in northwestern coastal belt as an economic deposit**
- **Ni- nanoparticle synthesis from Serpentinite soils**

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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

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