Department of Geology
Faculty of Science / University of Peradeniya



Prof. N.W.B. Balasooriya

B.Sc., M.Phil., Ph.D. (INPG)

Professor in Geology

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About Me

I am a conscientious, enthusiastic, and highly motivated individual who is reliable, responsible, and hardworking. I demonstrate flexibility in the workplace and can quickly adapt to challenging situations while maintaining a calm, focused, and positive attitude. This approach allows me to grow professionally, while effectively utilizing my skills for the benefit of the organization. My dedication, determination, and resourcefulness enable me to face new challenges with confidence and adaptability.

Higher Education Qualifications

PhD

Institute of National Polytechnic of Grenoble (INPG) - France
France
(2004)

MPhil

Postgraduate Institute of Science (PGIS) - Sri Lanka
Sri Lanka
(2001)

BSc

University of Peradeniya - Sri Lanka
Sri Lanka
(1996)

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Awards, Scholarships, Memberships & Fellowships

- Vice Chancellor's Awards -2016 - The Most Outstanding Recipient of External Research Grants, South Eastern University of Sri Lanka, Oct. 2016
- Vice Chancellor's Awards -2016 - The Most Outstanding Researcher, Faculty of Applied Sciences, South Eastern University of Sri Lanka, Oct. 2016
- Presidential Awards for Research for a Research Article Published in International Scientific Journal, 2006 (J. Phys.Chem Solids, 67:1213-1217, 2006), 2010
- Young Geoscientist – P.G. Cooray medal by the Geological Society of Sri Lanka (GSSL) for the most outstanding contribution for the field of Geo Science in Sri Lanka, 2002
- Charted Geologist
- Joint Editor of the Geological Society of Sri Lanka (GSSL for the year 2016/2017 and 2017/2018
- Secretary of the Geological Society of Sri Lanka (GSSL for the year 2015/2016)
- Member of the Institute of Geology (IGSL): M0044
- Treasurer of the Geological Society of Sri Lanka (GSSL for the year 2013/2014 and 2014/2015
- Life Member of the Geological Society of Sri Lanka (GSSL)- LM 060
- Member of the Sri Lanka Association for the Advancement of Science (6239D-SLAAS)
- Member of the Institute of Chemistry (I. Chem)
- Member of the Young Scientists Forum (YSF), NASTEC
- **Patent** - Method for preparing surface modified vein graphite through chemical oxidation, Sri Lanka Patent Application No. LK/P/1/18728 (17th Sept. 2018)
- **Patent** - Method of purification vein graphite by acid leaching to ultra-high purity, Sri Lanka Patent Application No. LK/P/1/18729 (17th Sept. 2018)
- **Patent** - Method of manufacturing Lithium Carbonate coated vein graphite anode for Lithium-ion Battery, Sri Lanka Patent Application No. LK/P/1/18730 (17th Sept. 2018)

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Positions Held

- Actg. Head/ Dept. of Geology, University of Peradeniya- (01.10.2023 to Date)
- Actg. Director/ Dept. of Physical Education, University of Peradeniya- (01.10.2022 to Date)
- Faculty Focal Point/ Strategic Planning and Monitoring committee-University of Peradeniya- (01.01.2023)
- Warden-Marcus Fernando Hall of Residence- (Jan 2021- Dec. 2021)
- Chairman/Board of Study of Earth Sciences, PGIS, University of Peradeniya- (24.04.2020 to Date)
- Coordinator of the Faculty Quality Assurance Committee- (28.02.2021 to 01.02.2024)
- Senior Treasurer/ Buddhist Brotherhood Society, Faculty of Science, University of Peradeniya- (Nov.2017 to Date)
- Proctor, University of Peradeniya- (15.01.2019 to 31.12.2020)
- Activity Coordinator-AHEAD/ICE Grant, Faculty of Science, University of Peradeniya- (July 2018 to Date)
- Member/Board of Management of the PGIS, University of Peradeniya- (10.06.2020 to Date)
- Secretary-Board of Study of Earth Sciences, PGIS, University of Peradeniya- (23.10.2017 -24.04.2020)
- Deputy Proctor, Faculty of Science, University of Peradeniya- (01.03.2017 -15.01.2019)
- Director, Internal Quality Assurance Unit, (IQAU) , South Eastern University of Sri Lanka- (01.11.2015 - 31.12.2016)
- Coordinator for Research Promotion Cell, Faculty of Applied Sciences of South Eastern University of Sri Lanka- (08.07.2014 - 07.07.2015)
- Chairman/ Curriculum Development Committee, Faculty of Applied Sciences of South Eastern University of Sri Lanka- (Oct. 2015 - 31.01.2016)
- Academic Advisor, Faculty of Applied Sciences of South Eastern University of Sri Lanka- (01.01.2014 - 31.12.2014)
- Subject Co-ordinator /Earth Science,Dept. of Physical Sciences, Faculty of Applied Sciences, South Eastern University of Sri Lanka- (01.01.2014 - 31.01.2016)
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My Teachings

- AS444: Industrial and Economic Minerals
- ES311: Mining and The Environment
- GL215: Economic Geology
- GL218: Photogeology
- GL333: Economic Geology and Gemmology
- GL440: Exploration and Mining Geology
- GL441: Petroleum Geology
- GL444: Advanced Sedimentary Petrology

Research Interests (Research Fields/ Projects)

Mineral Deposits and Technological Applications

Graphite Intercalation Compounds and Li-ion Batteries
Nano-Composites

Ongoing Research and Projects

Petrological and Mineralogical Characteristics of Weathered Carbonatites at Eppawala, Sri Lanka

AHEAD/ICE Grant

Economic potential of red earth deposits in the north and northwestern coastal belt of Sri Lanka

AHEAD/DOR Grant

Development of Sri Lankan graphite for Li Ion Batteries

Technological Application of Vein Graphite

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Key Publications

Ionics - (2017)

Performance of developed natural vein graphite as the anode material of rechargeable lithium ion batteries,

The Canadian Mineralogist - (2010)

Vein graphite from Bogala and Kahatagaha- Kolongaha Mines: A Possible Origin

Conferences

First National Nanotechnology Conference -2012

HELD AT : Mount Lavina - (24-25 Aug. 2012)

Global Forum of Sri Lankan Scientists

HELD AT : Colombo - (13-15 Dec.2011)
TOPIC : *Empowering Sri Lanka through Networking and knowledge Sharing*

The Second World Landslide Forum

HELD AT : Rome, Italy - (03 – 07 Oct. 2011)

Symposium to felicitate IPPS for long term support to Physics research in Sri Lanka

HELD AT : PGIS, Uni. of Peradeniya, Sri Lanka - (10-11 Jan. 2011)

The National Conference On Advanced Materials For Emerging Technologies (NCAMET 2007)

HELD AT : Postgraduate Institute of Science (PGIS), University of Peradeniya - (21 – 22 July 2007)

Sixth Sri Lanka Conference on Science and Technology (BICOST – VI)

HELD AT : Hotel Suisse, Kandy - (16-18 July 2010)

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My Publications

Please goto the website.

https://sci.pdn.ac.lk/geology/staff/Nanda-Balasooriya

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