



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 person who is reliable, responsible, and hardworking and flexible within the working environment, and able to adapt quickly and positively to challenging situations while remaining calm, focused, and positive. That will allow me to grow professionally, while being able to utilize my skills for the betterment of the organization and more flexibility to face new challenges with the best use of my dedication, determination, and resourcefulness.

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)

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



Chartered 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)

Positions Held

-  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 Date)
-  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)
-  Activity Co-ordinator, B.Sc. Degree Programme – Faculty of Applied Sciences, Quality and Innovation Grant (QIG), HETC Project, South Eastern University of Sri Lanka- (01.01.2013 - 31.12.2016)
-  Proctor, Faculty of Applied Sciences of South Eastern University of Sri Lanka- (01.01.2013 - 31.12.2013)
-  Team Leader/ Quality and Innovation Grant (QIG), South Eastern University of Sri Lanka, HETC Project- (01.08.2011 - 31.12.2013)
-  Career Guidance Advisor, Faculty of Applied Sciences of South Eastern University of Sri Lanka- (01.01.2012 - 31.12.2012)
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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**

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>