

CURRICULUM VITAE – L. R. K. PERERA

Name in Full: Lokugoonaduwa Rohana Keerthi Perera

Address: Department of Geology, University of Peradeniya, Peradeniya, Sri Lanka.

Date of Birth: 16th May 1957

Age: 62 years

Marital Status: Married, 02 sons

Sex: Male

Nationality: Sri Lankan

Religion: Buddhist

Educational Qualifications:

Degree	Institution	Year/Class
B.Sc. Honours in Geology	University of Peradeniya	1979 2 nd Class (Upper Division)
M.Phil. in Geology	University of Peradeniya	1987

Occupation:

Position	Institution	Period
Assistant Lecturer	Department of Geology, University of Peradeniya	Sept. 1980 Sept. 1987
Lecturer/Senior Lecturer Grade II	Department of Geology, University of Peradeniya	21 st Sept. 1987 to 1997 Sept.
Senior Lecturer Grade I	Department of Geology, University of Peradeniya	1997 Sept. to 2017 March
Professor in Geology	Department of Geology, University of Peradeniya	2017 March to date

Administrative and other Positions:

Position	Institution	Period
Head of Department of Geology	University of Peradeniya	July 2004 – June 2010
Chairman of Board of Study in Earth Sciences	Postgraduate Institute of Science University of Peradeniya	August 2004– April 2011
Chairman of Board of Study of the Faculty of Science CDCE	Center for Distance and Continuing Education (CDCE) University of Peradeniya	May 2008 to April 2011
Member, Board of Management (as representative of Board of Study in Environmental Sciences)	Postgraduate Institute of Science University of Peradeniya	April 2014 to March 2017
Faculty of Science Representative to the Senate,	University of Peradeniya	17 June 2015 to 21 February 2017
Secretary of the Board of Study in Earth Sciences	Postgraduate Institute of Science University of Peradeniya	April 2002 to July 2005
Board of Management representative to the Finance Committee	Postgraduate Institute of Science University of Peradeniya	July 2016 to March 2017

Ex-officio Member (for Head) of Board of Study in Environmental Sciences	Postgraduate Institute of Science University of Peradeniya	May 2006 –June 2010
Member, Board of Study in Earth Sciences	Postgraduate Institute of Science University of Peradeniya	April 2002 – March 2012
Member, Board of Study in Environmental Sciences	Postgraduate Institute of Science University of Peradeniya	August 2010 to date
Coordinator M.Sc. Programme in Gemology	Postgraduate Institute of Science University of Peradeniya	1999-2000 2006-2007

Awards and Scholarships

1. Ananda Coomaraswamy Medal of the Geological Society of Sri Lanka 2014
2. Commonwealth Academic Staff Scholarship 1994

Training Programmes and Teaching Seminars attended

1. Third UNESCO Regional Training Course on Methods and Techniques in Exploration Geophysics, 15 December 1980 - 23 January 1981, Hyderabad, India.
2. International Seminar on Seismology and Earthquake Engineering, March 13 to April 23, 1982, Bandung, Indonesia.
3. National Instrumentation Workshop on X-ray Powder Diffractometer, 6-10 August 1990, IFS, Kandy.
4. International Training Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation, 28 August to 01 October 2005, Potsdam, Germany.
5. Course in Basin Analysis and Prospect Generation, 3 – 7 March, 2014, Peradeniya conducted by Robertson Training Centre in conjunction with Cairn Lanka for University Grants Commission.

Subject of Specialization: Geology

Areas of Specialization: Mineralogy, Petrology, Isotope Geology

Research Interests:

My research interests lie in the areas mineralogy, petrology, isotope geology and structural geology, and I am particularly interested in the application of these sub-disciplines in geology to study earth evolution, with emphasis on high-grade gneiss terrains like Sri Lanka. My keen interests lie in the problems of time stamping of past geological events using radiogenic isotopic systems.

Current Research:

1. Modeling Isotopic Evolution of the Earth's Mantle.
2. Colour enhancement of Gemstones
3. Software development for Isotopic Modeling

Postgraduate Supervision

2003 - Supervisor of **Mr. S.B. Basnayake - M.Sc. in Gemology (completed)**
Research Project: Guidelines for setting standards for the Nomenclature, Description, Grading, and Appraisal of Sri Lankan Gemstones.

- 2004-2006 – Co-Supervisor of **Mr. W.L.D.R.A. Kumaratilake** – M.Phil.in Gemology upgraded to Ph.D (**completed**)
- 2005 - Co-Supervisor of **Mr. S.M.S. Abeyweera** – **M.Sc. in Gemology (completed)**
Research Project: Preparation of a Diffusion Material for colouration of colourless Topaz.
- 2009 – Co-Supervisor of **Mr. P.R.K. Fernando** – **M.Sc. in Gemology (completed)**
Research Project: Colour Enhancement of Sri Lankan Gem-quality quartz by Gamma-ray and Neutron-beam radiation.
- 2009 – Co-Supervisor of **Mr. B.G.R.W. Gamlath** - M.Sc. in Gemology (**completed**)
Research Project: Converting Perthite to Moonstone
- 2009 – Co-Supervisor of Ms. Praveena – PG Diploma in Environmental Science
- 2015 – Co-Supervisor of **Miss. S.N.B. Thaldena**, M.Phil. in Geology
Research Project: P and S wave velocities in Highland, Vijayan and Wannai Complex rocks. (On-going project)

Extra Curricular:

Life member - Geological Society of Sri Lanka
 Member - Institute of Geology, Sri Lanka
 President- Geological Society of Sri Lanka, 2006
 Co-Editor- Geological Society of Sri Lanka, 1993-1994, 2005, 2009-2011

Promoting geology through activities of the Geological Society of Sri Lanka.

PUBLICATIONS:

Publications in Indexed/Peer-Reviewed Journals

1. **Perera, L.R.K.**, 1983. Origin of the Pink granites of Sri Lanka – Another view. *Precambrian Research*, 20:17-37.
2. **Perera, L.R.K.**, 1984. Co-existing cordierite-almandine: a key to the metamorphic history of Sri Lanka. *Precambrian Research*, 25:349-364.
3. Kroner, A., Williams, I.S., Compston, W., Baur, N., Vitanage, P.W. and **Perera, L.R.K.**, 1987. Zircon ion-microprobe dating of high-grade rocks in Sri Lanka, *Journal of Geology*, 95: 775-791.
4. Sandiford, M., Powell, R., Martin, S.F. and **Perera, L.R.K.**, 1988. Thermal and baric evolution of garnet granulites from Sri Lanka, *Journal of Metamorphic Geology*, 6: 351-364.
5. Hiroi, Y., Asami, M., Cooray, P.G., Fernando, M.R.D., Jayatilake, J.M.S., Kagami, H., Mathavan, V., Matsueda, H., Motoyoshi, Ogo, Y., Osanai, Y., Owada, M., **Perera, L.R.K.**, Prame, W.K.B.N., Ranasinghe, N.S., Shiraishi, K., Vitanage, P.W., Yoshida, M., 1990. Arrested charnockite formation in Sri Lanka; Field and petrographic evidence for low pressure conditions, *Proc. of the NIPR Symposium on Antarctic Geosciences*, No. 4: 213-230.
6. **Perera, L.R.K.**, 1994a. P-T-t path vs Isotope ages in Correlations, Anti-correlations and Pseudo-correlations of Regional Metamorphic Terrains: A Case Study from Sri Lanka. *J. Geol. Soc. of Sri Lanka*, Vol. 5: 27-40.
7. **Perera, L.R.K.**, 1994b. Relict Cross-bedding in a Granulite-grade Highland Group metasediment from Sri Lanka, *J. Geol. Soc. of Sri Lanka*, vol. 5: 157-158.

8. Ranaweera, L.V., **Perera, L.R.K.** and Hiroi, Y., 2007. Blue Dumortierite from Habarana, Sri Lanka: Field occurrence and mineral chemistry. *J. Geol. Soc. Of Sri Lanka*, Vol.12: 53-74.
9. **Perera, L.R.K.** and Kagami, H. 2011. Centimetre- and Metre-scale Nd and Sr Isotopic Homogenization in Kadugannawa Complex, Sri Lanka. *J. Geol. Soc. of Sri Lanka*, Vol. 14: 129-141.
10. **Perera, L.R.K.** (2015). Isochron Translation, Mantle Mapping and Sri Lankan Model ages. Ananda Coomaraswamy Memorial Oration 2014, *Journal of Geological Society of Sri Lanka*: 17, 1-10.
11. Sameera, K.A.G. and **Perera, L.R.K.** 2015. Petrological Study of Calc-Silicate Granulites in the Southern Highland Complex of Sri Lanka. *Journal of Geological Society of Sri Lanka*, 17: 87-100.
12. Wanniarachchi, D.N.S., Akasaka, M., Hayasaka, Y. and **Perera, L.R.K.** 2016. Internal Textures and U-Pb Geochronology of Zircons in Metamorphic Rocks from the Southwestern Highland Complex, Sri Lanka. *Journal of Mineralogical and Petrological Sciences*, Vol., 111: 373-384.

Refereed Abstracts presented at National and International Conferences

1. Karunaratne, D.N., **Perera, L.R.K.** and Fernando, G.W.A.R., 2002. The missing link between Prograde decompression? and Retrograde Isobaric Cooling in the Highland Complex Granulites of Sri Lanka. *Proc. 18th Ann. Technical Sessions of the Geol. Soc. Of Sri Lanka*, p. 3 (Abstract)
2. Manthilake, M.A.G.M., **Perera, L.R.K.** and Fernando, W.I.S., 2003. Petrography and Geochemistry of hypersthene-bearing pegmatites from NW Sri Lanka; Evidence for a fractionated charnockite magma. *Proc. 19th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka*, p. 9 (Abstract)
3. Senaratne, A., **Perera, L.R.K.** and Dharmagunawardhane, H.A., 2003. Petrography of the Chondritic meteorite at Kalugalatenna, Peradeniya, Sri Lanka. *Proc. 19th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka* (Abstract).
4. Basnayake, S. and **Perera, L.R.K.**, 2004. Guidelines for setting standards for the Nomenclature, Description, Grading and Appraisal of Sri Lankan gems. *Proc. 20th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka*, p. 10 (Abstract).
5. Ranaweera, L.V., **Perera, L.R.K.** and Hiroi, Y., 2004. Dumortierite : A rare, blue, aluminum-rich boro-silicate from Sri Lanka. *Proc. 20th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka* (Abstract)
6. Tomiyama, T., **Perera, L.R.K.** and Senaratne, A., 2004. Petrology of the L6 chondrite that fell on Kalugalatenna Estate, Sri Lanka, *Proc. 20th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka* (Extended Abstract).
7. Fernando, P.R.K., **Perera, L.R.K.**, Udawatte, C.P. and Kulatunga, S.D., 2004, Colour enhancement of Sri Lankan gem-quality quartz by γ -ray irradiation. *60th SLAAS Annual Sessions* (Abstract)
8. **Perera, L.R.K.** and Tomiyama, T., 2004, Kalugalatenna, In: Sara S. Russel, et.al. (Editors) *Meteoritical Bulletin No. 88*, 2004 July, p. 5.
9. Fernando, P.R.K., **Perera, L.R.K.** and Kulatunge, S.S., 2007. Applications of chemistry for the value addition of gems found in Sri Lanka. *Proceedings of the Chemtech 2007, 20-23 June 2007, Institute of Chemistry, Colombo*.
10. Ranaweera, C.K., Chandrajith, R.L.R. and **Perera, L.R.K.**, 2008. Petrology of an in-situ corundum occurrence at Wellawaya, Srilanka. *Proc. 24th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka* (Abstract)
11. Fernando, P.R.K., **Perera, L.R.K.**, Udawatte, C.P. and Kulatunge, S.S., 2009. Colour enhancement of gem-quality quartz by gamma-ray and neutron-beam irradiation. *Proc. 25th Ann. Technical Sessions of the Geol. Soc. of Sri Lanka* (Abstract)

12. Wimalaratne, D, **Perera, L.R.K.**, and Chandrajith, R.L.R. 2010. Augen gneiss at Minneriya Proceedings 26th Annual Technical Sessions of the Geological Society of Sri Lanka.
13. Jayawardena, U. De S and **Perera, L.R.K.** 2013. Tectonics along the northwestern coast of Sri Lanka since Miocene to present: evidence. Proc. 4th International Conference on Structural Engineering and Construction Management, 13-15 December, Kandy, Sri Lanka (Abstract) p.214.
14. Athurupana, B. M. B. and **Perera, L.R.K.** 2013. Is Kadugannawa Complex -Highland Complex Boundary a Transitional Contact? Proceedings 29th Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract)
15. Wickramasinghe, G.G.M.S. and **Perera, L.R.K.** 2014. Prograde and Retrograde P-T-t Changes in Highland Complex Marbles and Calc-Silicates around Balangoda, Sri Lanka. Proceedings Peradeniya Univ. International Research Sessions, 4-5 July. Peradeniya, Sri Lanka. Vol.18, p. 132
16. Sameera, K.A.G. and **Perera, L.R.K.** 2015. P-T-t Evolution of Calc-Silicate rocks in the Southwestern Highland Complex of Sri Lanka. Proceedings Peradeniya University International Research Sessions, Sri Lanka. Vol. 19, p.13.
17. Chandrajith, R., **Perera, L.R.K.** and Senaratne, A. 2015. Preliminary Investigations on the Unknown Material Suspected to be a Meteorite. Proceedings Astrobiology Research Conference, 21-23 August, Univ. of Peradeniya.
18. Lasantha, H.S. and **Perera, L.R.K.** 2016. Geological Evolution of the Augen Gneiss Around Minneriya, Sri Lanka. Proceedings 32nd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.6
19. **Perera, L.R.K.** 2016a. Isochron Translation during Isotopic Resetting. Proceedings 32nd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.1
20. **Perera, L.R.K.** 2016b. Discordia Translation and Pseudo-Concordance. Proceedings 32nd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.2
21. **Perera, L.R.K.** 2016c. Isochron Translation and Mapping Mantle Layering. Proceedings 32nd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.3
22. **Perera, L.R.K.** 2016d. Isochron Translation and Crust Formation Ages in Sri Lanka. Proceedings 32nd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.4
23. Seneviratne, H.N., **Perera, L.R.K.** and Wijesundara, K.K. 2017. Seismicity around Sri Lanka from historical records and its engineering applications. Proceedings 33rd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.1
24. Jayaweera, H.M.M.S. and **Perera, L.R.K.** 2017. Petrology of rocks along Highland-Vijayan boundary around Bibile, Sri Lanka. Proceedings 33rd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.6
25. Harankahawa, S.B. and **Perera, L.R.K.** 2017. Petrography and P-T-t evolution of marble around Ampitiya. Proceedings 33rd Annual Technical Sessions of the Geological Society of Sri Lanka (Abstract) p.21
26. Ratnayake, R.M.D.M. and **Perera, L.R.K.** 2018. P-T-t Evolution of Pelitic and Mafic Rocks Around Delpitiya, in the Highland Complex, Sri Lanka. Proceedings 34th Annual Sessions of the Geological Society of Sri Lanka (Abstract) p.5.
27. Nawarathna N.H.M.C. and **Perera, L.R.K.** 2018. Petrography Of Rocks Of Kahatagaha- Kolongaha Graphite Mine, Wannu Complex, Sri Lanka. Proceedings 34th Annual Sessions of the Geological Society of Sri Lanka (Abstract) p.12.
28. Jayatilaka, M.L.G.N.T. and **Perera, L.R.K.** 2018. Tonigala Granite Is Not Post-Tectonic. Proceedings 34th Annual Sessions of the Geological Society of Sri Lanka (Abstract) p.13.
29. **Perera, L.R.K.** 2019. Field Initial Ratio Gradient to Identify Isochrons in Metamorphic Rocks. Proceedings 35th Annual Sessions of the Geological Society of Sri Lanka (Abstract) p.4.

30. **Perera, L.R.K.** Isochron Translation During Isotopic Resetting – Process and Application (under review).

Journal Volumes Edited

1. P.W. Vitanage Felicitation Volume, Journal of the Geological Society of Sri Lanka, Volume, 5, 1994.
2. Vidyajothi C.B. Dissanayake Felicitation Volume, Journal of the Geological Society of Sri Lanka, Volume, 14, 2011.

Other Publications

1. Mathavan, V., **Perera, L.R.K.** and Weerasooriya, T., 1991. Guide to Excursions I and II, 2nd International Symposium on the Geology of Sri Lanka, 11-14 January 1991. Special Publication. Geol. Soc. of Sri Lanka.
2. Ranaweera, L.V. and **Perera, L.R.K.** 2014 (Editors), Recent contributions to the Geology of Sri Lanka, Geological Field Trip 5th & 6th of September, Excursion Guide, Geological Society of Sri Lanka, Special Publication 10, pp. 1-6.