

## CURRICULUM VITAE OF D.M.U.A.K. PREMARATHNE

**01. NAME IN FULL** : Dissanayake Mudiyanseelage Upul  
Ajantha Kumara Premarathne

**02. DATE OF BIRTH** : 23.03.1975

**03. NATIONALITY** : Sri Lankan

**04. SEX** : Male

**05. MARITAL STATUS** : Married



**06. OFFICIAL ADDRESS** : Department of Oceanography and Marine Geology  
Faculty of Fisheries and Marine Sciences and Technology  
University of Ruhuna, Wellamadama, Matara  
Sri Lanka  
Tel: 071 6825617  
E-mail: [premarat@yahoo.com](mailto:premarat@yahoo.com)

### **07. EDUCATIONAL QUALIFICATIONS**

- i. **Ph.D in Petroleum Geosciences**, Graduate School of Science, Hokkaido University, Japan (2012 – 2015). Average grade AA (Excellent)

Title of thesis: *Basin and petroleum system modeling of the northern Mannar Basin, offshore Sri Lanka.*

- ii. **M.Sc in Petroleum Geosciences**, Norwegian University of Science & Technology (NTNU), Norway (2003– 2005).

Courses taken: Petroleum Geology, Petrophysics, Gravimetry & Magnetometry, Basin Analysis, Diagenesis & Reservoir Quality, Seismic Data Interpretation, Seismic Data Processing and Applied Mathematics & Compute Methods in Petroleum.

Title of thesis: *Re-evaluation of the Yme Field Based on Seismic Data.*

- iii. **B.Sc special degree in Geology**, University of Peradeniya, Sri Lanka (1998-2002)  
Subsidiary Subject: Chemistry  
Result: Second-Class (upper division)

Title of thesis: *A model for sedimentation in Daduru Oya Basin, Sri Lanka*

### **08. PROFESSIONAL QUALIFICATIONS**

Chartered Geologist, Institute of Geology Sri Lanka (Incorporated by the Parliamentary Act No. 14 of 2014)

## 08. PROFESSIONAL EXPERIENCE

### *Full time*

- **Senior Lecturer**, Department of Oceanography and Marine Geology, Faculty of Fisheries and Marine Sciences and Technology, University of Ruhuna, Sri Lanka, from 01.08.2016-now
- **Post-Doctoral Researcher**, Dept. of Earth Resources Engineering, University of Moratuwa, Sri Lanka, 01.01.2016 to 30.07.16.
- **Petroleum Geologist (Staff Class Gr. II)** - Petroleum Resources Division, Economic Research Department, Central Bank of Sri Lanka (Aug 2008 – 30<sup>st</sup> September 2012)
- **Lecturer**, Department of Oceanography and Marine Geology, Faculty of Fisheries & Marine Sciences & Technology, University of Ruhuna, Sri Lanka (Jan 2008 – Aug 2008)
- **Project Manager** - Soiltech (Private) Limited, Sri Lanka (11/25/2005 – 12/28/ 2007)
- **Demonstrator** - Department of Geology, University of Peradeniya, Sri Lanka (06/06 2002- 05/31/2002)
- **Trainee Geologist**- National Building Research Organization (04/02/2001 to 05/06/2001)

### *Part-time*

- **Visiting Lecturer** – Uva Wellassa University, Faculty of Science & Technology, Sri Lanka (Academic Year 2011/2012)
- **Visiting Lecturer** - Department of Earth Resources Engineering, University of Moratuwa, Katubedha, Sri Lanka (Academic years 2009/2010 and 2010/2011)
- **Visiting Lecturer** - Department of Chemistry, University of Ruhuna, Sri Lanka (academic year 2007/2008)
- **Visiting Lecturer** - Department of Oceanography and Marine Geology, Faculty of Fisheries & Marine Sciences & Technology, University of Ruhuna, Sri Lanka (academic year 2007/2008)

## 09. KEY POSITIONS CURRENTLY HELD AT THE UNIVERSITY OF RUHUNA

1. Member of the Governing Body Technology Transfer Office (TTO) in University of Ruhuna.
2. Marketing Manager, Technology TTO, University of Ruhuna.
3. Chairman, Technology Transfer Cell (TTC), Faculty of Fisheries and Marine Sciences and Technology, University of Ruhuna.
4. Member, Ethical Practices Committee, University of Ruhuna
5. Member, Wi-Fi Policy Committee, University of Ruhuna

## 10. MEMBERSHIP IN NATIONAL COMMITTEES

1. Member, National Marine Environmental Council, from January 2019 to Now.
2. Member, Cabinet Appointed Project Committee on marketing Mannar Basin M2 block to finalize data price proposed by HIS Global Inc. 24.08.2017 to now
3. Member, Cabinet Appointed Project Committee for selecting a suitable investor through international competitive bidding for the development & production of the natural gas deposits already discovered in the Block SL 2007-01-001 in the Mannar Basin.

## 11. RESEARCH PUBLICATIONS

### *Full Papers (peer reviewed)*

1. **Premarathne, U.**, 2020. Burial and thermal history of the Cauvery Basin, Sri Lanka: A Basin Modeling Approach. Journal of Geological Society of Sri Lanka. (in press)
2. **Premarathne, U.**, Suzuki, N., Rathnayake, N., and Kularathne, C., 2016. Burial and thermal history modelling of the Mannar Basin, offshore Sri Lanka. Journal of Petroleum Geology, vol. 39(2), pp 193-214.
3. **Premarathne, U.**, Suzuki, N., and Rathnayake, N.P., 2015. Hydrocarbon generation, migration and accumulation in the northern Mannar Basin, offshore Sri Lanka, Journal of the Geological Society of Sri Lanka, 17, 139-158.
4. **Premarathne, U.**, 2015. Petroleum Potential of the Cauvery Basin, Sri Lanka, Journal of the Geological Society of Sri Lanka, 17, 41-52.
5. **Premarathne, D.M.U.A.K.** & Jayasena, H.A.H. (2009) Paleozoic glacial sediments of Sri Lanka obliterated by neotectonic events? Weuda deposits revisited. Journal of the Geological Society of Sri Lanka. Journal of the Geological Society of Sri Lanka. pp. 67-73.
6. **Premarathne, D.M.U.A.K.** (2008) Petroleum exploration in Sri Lanka and its anticipated benefits, *Economic Review*, People's Bank of Sri Lanka. pp 09-12.
7. **Premarathne, D.M.U.A.K.**, Jayasena, H.A.H., Chandrajith, R. & Töbschall, H.J. (2005): Radiocarbon Dating of Some Plant Remains in Weuda sediments from Sri Lanka, Ceylon Jour. of Science., Physical Sciences. 10: pp 75-79.

### *Abstracts / conference presentations*

1. **Premarathne, U.**, Rathnayake, N.P., and Jayasena, H.A.H., 2020. Mineral Composition of iron ore occurrence at Pelwatta in Uva Province of Sri Lanka. Proceedings of the Ruhuna University research sessions.
2. **Premarathne, U.**, and Ranaweera L.V. 2020. Major and Trace element geochemistry of igneous rocks in the Mannar Basin, offshore Sri Lanka. Proceedings of the 36<sup>th</sup> annual technical sessions of Geological Society of Sri Lanka,
3. Bandara, W.G.S.S., Weerasinghe, D., and **Premarathne, U.**, 2019. distribution of sandstones in between igneous rocks in the m<sub>2</sub> block of the Mannar Basin, offshore Sri Lanka, based on seismic attribute analysis., Proceedings of the 35<sup>th</sup> annual technical sessions of Geological Society of Sri Lanka, 3.
4. Fernando, D., **Premarathne, U.** and Jinadasa, P. 2018. Spatial and temporal variation of mixed layer depth in the Southern Sea of Sri Lanka. National Aquatic Resources Research and Development Agency International Scientific Sessions. Pp 54
5. **Premarathne, U.**, 2017. Present day heat flows in the Cauvery basin, Sri Lanka. Proceedings of the 33<sup>rd</sup> annual technical sessions of Geological Society of Sri Lanka, 18.
6. Dushyendra, A., Weerasinghe, D., and **Premarathne, U.**, 2017. Seismic Attribute Analysis for Paleo Depositional Environment Prediction in the Paleogene Section in the Mannar Basin, Sri Lanka. Proceedings of the 33<sup>rd</sup> annual technical sessions of Geological Society of Sri Lanka, 22.
7. **Premarathne, U.**, N. Suzuki, N.P. Rathnayake, and L.V. Ranaweera, 2016. Origin and tectonic setting of igneous rocks in the Mannar Basin of Sri Lanka, *proceeding of the 4<sup>th</sup> Conference on Sri Lanka-Japan collaborative research*, 10.
8. **Premarathne, U.**, N. Suzuki, and N.P. Rathnayake, 2016. A simple method to remove drilling oil contamination in cuttings for elemental analysis, A case study from the Mannar Basin, Offshore Sri Lanka. *Proceedings of 32<sup>nd</sup> Technical Sessions of Geological Society of Sri Lanka*. p 18.

9. **Premarathne, U.** and Suzuki, N. (2014) Petroleum prospectivity of shallow water areas in the northern Mannar Basin, Offshore Sri Lanka, *Proc. of 30<sup>th</sup> Technical Sessions of Geological Society of Sri Lanka*. p 9.
10. **Premarathne, D.M.U.A.K.,** N. Suzuki, and N.P. Rathnayake (2013) Source potential of some Mesozoic sediments from Gulf of Mannar, Offshore Sri Lanka, *Proc. of 25<sup>th</sup> Spring conference of the Japanese Association of Petroleum Technology*, Tokyo. pp 44.
11. **Premarathne, D.M.U.A.K.,** N. Suzuki, N.P. Rathnayake, E.K.C.W. Kularathne (2013) A petroleum System in the Gulf of Mannar Basin, Offshore Sri Lanka, *Proc. of 29<sup>th</sup> Technical Sessions of Geological Society of Sri Lanka*. pp 9-12.
12. **Premarathne, D.M.U.A.K.** (2011). Oil exploration in Sri Lanka and Sustainability of the Gulf of Mannar *Proc. of 27<sup>th</sup> Technical Sessions of Geological Society of Sri Lanka*. pp 23
13. **Premarathne, D.M.U.A.K.** (2008). Petroleum Potential of Sri Lankan Cauvery Basin. *Proc. of 24<sup>th</sup> Technical Sessions of Geological Society of Sri Lanka*. Pp 7
14. **Premarathne, D.M.U.A.K.,** Kirinde Arachchihe & Kumara, W.A.A.U (2008) Geochemistry of the thermal spring at Mahapalessa area of Sri Lanka. International Scientific Workshop on Riverscapes in Sri Lanka: Current Knowledge and Future Challenges 09<sup>th</sup> June 2008, Sri Lanka Foundation Institute Colombo 07. Pp 16
15. **Premarathne, D.M.U.A.K** & Jayasena, H.A.H. (2006). Mineralogy and geochemistry of the newly discovered iron- ore deposit in Wallawaya, Sri Lanka, *Proc. of 22<sup>nd</sup> Technical Sessions of Geological Society of Sri Lanka*. Pp 10.
16. Marasinghe, P.A., Chandima, K.G.N., **Premarathne, D.M.U.A.K** & Jayasena, H.A.H. (2006). Preliminary socioecological assessment of the reforestation program at newly constructed artificial tank cascade system in the Walawe left bank area. *Proc. of 22<sup>nd</sup> Technical Sessions of Geological Society of Sri Lanka*. Pp 4.
17. **Premarathne, D.M.U.A.K.,** Jayasena, H.A.H., Chandrajith, R. & Tobschall, H.J. (2004). Radiocarbon Dating of Some Plant Remains from Weuda in Sri Lanka, *Proc. of the Peradeniya University Research Sessions, (PURSE) Mathematical and Physical Science II* .pp 195.

## 12. ARTICLES FOR DISSEMINATION OF KNOWLEDGE

2. History of Institute of Geology, Sri Lanka (IGSL), newsletter of the Geological Society of Sri Lanka, Vol. 32, No. 1, June 2014.
3. Ocean non-living resources, *Vidurawa*, National Science Foundation, Sri Lanka, 2010 July issue.
4. How we could face the global challenge of rising oil prices? (*"The Island"*, 07<sup>th</sup> August 2008).
5. Does Sri Lankan offshore have petroleum deposits? (*"Lakbima"* 09<sup>th</sup> September 2007).

## 13. SERVICE IN MANAGEMENT AND PROFESSIONAL BODIES

- Chartered Geologist and Corporate member, Institute of Geology Sri Lanka (since 2009)
- Member, Japanese Association of Petroleum Technology (since 2012)
- Life Member, Geological Society of Sri Lanka (since 2002)
- Founder treasurer, Institute of Geology Sri Lanka (2009 –2014)
- Member, Sri Lanka Association for Advancement of Science (SLAAS; since 2010)
- Executive Committee Member, Science Education Committee of SLAAS (2010 - 2012)
- Treasurer, Geological Society of Sri Lanka (2008 & 2009)
- Secretary, Membership Selection Committee, Institute of Geology, Sri Lanka (2009/2010)
- Executive Committee Member, Geological Society of Sri Lanka (2006)
- President, Peradeniya University Geological Society, 2001

#### **14. RESEARCH INTERESTS**

Petroleum geology, seismic data interpretation and processing, organic geochemistry, basin and petroleum system modelling, petroleum economics.