



**Ruchira Abeyweera**  
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Moratuwa,  
**Sri Lanka**  
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## PERSONAL DETAILS

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Name	Ruchira Rohanajith Abeyweera
Sex	Male
Age	48 years
Nationality	Sinhalese
Date of Birth	1970-03-24

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## PROFESSIONAL EXPERIENCE

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<b>From 08/2016</b>	<b>OUSL – The Open University of Sri Lanka</b> Working as a Program Manager & Coordinator, SELECT M.Sc Program (Sri Lanka), Department of Mechanical Engineering, Faculty of Engineering Technology, The Open University of Sri Lanka (OUSL), Nawala, Nugegoda, Sri Lanka
<b>08/2007 – 07/2016</b>	<b>OUSL – The Open University of Sri Lanka</b> Worked as a Program Coordinator, SEE Worldwide M. Sc Program, Department of Mechanical Engineering, Faculty of Engineering Technology, The Open University of Sri Lanka (OUSL), Nawala, Nugegoda, Sri Lanka
<b>06/2002 - 01/2006</b>	<b>KTH – Royal Institute of Technology (Sweden).</b> Worked as a Research Engineer and Co-ordinator of Division of Energy and Furnace Technology, Royal Institute of Technology (KTH), Sweden
<b>08/1998- 04/2000</b>	<b>Naturab (Sri Lanka) (Pvt) Ltd.</b> Panadura, Sri Lanka. Maintenance Engineer

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## EDUCATION

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<b>06/2002 - 12/2006</b>	<b>KTH – Royal Institute of Technology (Sweden) – Worked as a Researcher of the Division of Energy and Furnace Technology, Department of Material's Science and Engineering</b> <ul style="list-style-type: none"><li>• Research on High Temperature Air/Steam Gasification</li><li>• LCV gas combustion in gas engines/gas turbines – modelling, numerical and experimental studies</li><li>• Efficient utilizations of bio fuels in energy production</li><li>• Experimental studies on synthetic waste gasification</li><li>• Emission measurements</li></ul>
<b>09/2001 - 05/2003</b>	<b>KTH – Royal Institute of Technology (Sweden) International Master Degree: Sustainable Energy Engineering</b> <ul style="list-style-type: none"><li>• Course work plus research (2 years full time).</li><li>• Project/Thesis: Energy Balance of the High Temperature Air/Steam Gasification (HiTASG) of Biomass in Heat and Power Generation Process</li></ul>
<b>03/1996 - 08/2000</b>	<b>The Open University of Sri Lanka- Bachelor of Technology: Production Engineering</b> <ul style="list-style-type: none"><li>• Four years studies.</li><li>• Project/Thesis: Comprehensive study of Industrial waste management system in Sri Lanka (Plastic and Rubber)</li></ul>
<b>08/1991 - 01/1996</b>	<b>The Open University of Sri Lanka- Diploma in Technology: Mechanical Engineering</b> <ul style="list-style-type: none"><li>▪ Studies with apprentice training</li></ul>
<b>11/1991 - 01/1992</b>	<b>Sri Lanka State Trading (Tractor) Corporation Training Institution Diploma in Diesel Engineering Technology</b> <ul style="list-style-type: none"><li>• Studies with apprentice training</li><li>• Second division pass</li></ul>
<b>09/2002</b>	<b>HUT - Helsinki University of Technology (Finland) – Short Course</b> <ul style="list-style-type: none"><li>▪ Energy and recovered materials from waste (Three academic weeks)</li></ul>
<b>11/2003</b>	<b>HUT - Helsinki University of Technology (Finland) – Short Course</b> <ul style="list-style-type: none"><li>▪ Greenhouse gas emissions control and CO2 long-term storage (Three academic weeks)</li></ul>

- **Ruchira Abeyweera**, Nihal S. Senanayake, Jeevan Jayasuriya, Torsten H. Fransson (2018). A Remote Mode High Quality International Master Degree Program in Environmental Pathways for Sustainable Energy Systems (SELECT) –Pilot Program Experiences During First Year of Studies, IEEE Global Engineering Education Conference (EDUCON), 17-20 April, 2018, Santa Cruz de Tenerife, Canary Islands, Spain.
- **Ruchira Abeyweera**, Nihal S. Senanayake, Chamindie Senaratne, Jeevan Jayasuriya, Torsten H. Fransson (2017). Capacity Building Through a Web Based Master Degree Programme in Sustainable Energy Engineering, IEEE Global Engineering Education Conference (EDUCON), 25 – 28 April 2017, Athens Greece
- U. G. Kithsiri, N. S. Senanayake, **Ruchira Abeyweera** (2018). Frequency Control Operation of a Combined Cycle Power Plant and Impact on Heat Recovery Steam Generator – A Case Study, International Journal of Energy Engineering 2018, 8(4): 89
- Jeevan Jayasuriya, Archishman Bose, Kiran Raj Rajan, **Ruchira Abeyweera**, Janaka Rathnakumara, N.S. Senanayake, Tharanga, Wicramarathna (2017). Sustainable Power for Carbon Neutral Operation: A Feasibility Study for Printing Industry in Sri Lanka, SLEMA Journal, Sri Lanka Energy Managers Association, 20(1), 12
- U. G. Kithsiri, N. S. Senanayake, **Ruchira Abeyweera**, Jeevan Jayasuriya (2016). A Model for Estimation of De-rating in Diesel Engines used for Power Generation, International Journal of Energy Engineering, Vol.6(2), 36 - 42.
- P. T. S. Peiris, R. P. Vitharanage, **Ruchira Abeyweera**, N. S. Senanayake and Jeevan Jayasuriya (2016). Feasibility of Utilizing Boiler Blowdown Waste Heat for Operating an Absorption Refrigeration Chiller, International Journal of Scientific and Research Publications (IJSRP), Volume 6, Issue 5, May 2016.
- Malkanthi Thenabadu, **Ruchira Abeyweera**, Jeevan Jayasuriya and Nihal S. Senanayake (2015). Anaerobic Digestion of Food and Market Waste; Waste characterisation and Bio-methane Potential: A Case study in Sri Lanka, SLEMA Journal, Vol. 18, No. 2, 29-33.
- J. A. C. K. J. Bandara, **Ruchira Abeyweera** and N. S. Senanayake (2015). Minimizing Energy Loss by Optimizing Pipe Diameter and Insulation Thickness in Steam Distribution Pipelines, SLEMA Journal, Vol. 18, No. 1, 19-27.
- J.A. K. J. Bandara, N. S. Senanayake and **Ruchira Abeyweera** (2015). A Renewable Energy based Power Supply System for Water Pumping and Lighting in a Rural Village, SLEMA Journal, Vol. 18, No. 1, 1-11.
- K. N. Amarawardhana, N. S. Senanayake, **Ruchira Abeyweera** (2015). Modeling of Energy Utilization of Tourism Industry of Sri Lanka and Prediction of Future Energy Demand, International Journal of Energy Engineering, Vol. 5, Issue 5, 87 - 94
- Sylva, K. K. K., Kithsiri, U. G., Bogahawatta, S., Senanayake, N. S., **Abeyweera, R.** (2014). Dendro Power Generation in Sri Lanka – Successes, Failures and Policies, Sri Lanka Energy Managers Association Journal, Vol. 17, No. 2, September 2014, 20 – 26.
- Kodituwakku, D. R., Senanayake, N. S., and **Abeyweera, R.** (2014). Effect of Cooling Charge Air on Gas Turbine Performance and the Feasibility of Using Absorption Refrigeration, Sri Lanka Energy Managers Association Journal, Vol. 17, No. 2, September 2014, 11 – 19.
- Priyadarshana Weerasisri, U., Senanayake, N. S., and **Ruchira Abeyweera** (2014). Analysis of Waste Heat Recovery Steam Generator (HRSG) for a Medium Speed Diesel Generator, Sri Lanka Energy Managers Association Journal, Vol. 17, No. 1, March 2014, 19 – 24.
- Priyadarshana, P.G.S., Senanayake, N. S., and **Ruchira Abeyweera** (2013). Assessment of Energy losses in mini hydro power plants in Sri Lanka, Sri Lanka Energy Managers Association Journal, Vol. 16, No. 2, September 2013, 1 – 5.
- Sylwester, Kalisz, **Abeyweera R**, Szweczyk D, Blasiak W, "ENERGY BALANCE OF THE HIGH TEMPERATURE AIR/STEAM GASIFICATION OF BIOMASS IN UP-DRAFT, CONTINUOUS TYPE GASIFIER". Twenty-third Annual International Conference on Incineration and Thermal Treatment Technologies (IT3 2004), Sheraton Wild Horse Pass Resort and Spa Phoenix, Arizona, USA, May 2004.

2003

- Lucas C, Blasiak W, Szewczyk D, **Abeyweera R**, "Gasification of Biomass Wastes in Updraft Fixed Bed Gasifier with High Temperature Air Steam Gasification". Regional Conference on Energy Technology towards a Clean Environment, Phuket, Thailand, February 2003.
- Blasiak W, Sylwester Kalisz, **Abeyweera R**, Lucas C, Szewczyk D, "High Temperature Air/Steam Gasification of Biomass and Wastes-Stage 2" Royal Institute of Technology (KTH), Division of Energy and Furnace Technology, SE-10044, Stockholm, Sweden, 2003.11.26, ISRN KTH/MSE—03/61—SE+ENERGY/TR

2002

- Blasiak W, Lucas C, Szewczyk D, **Abeyweera R**, Rafidi N, Jonson A, Björkman E, "High Temperature Air/Steam Gasification of Biomass Wastes-Stage 1" Royal Institute of Technology (KTH), Division of Energy and Furnace Technology, SE-10044, Stockholm, Sweden, 2002.12.31, ISRN KTH/MSE—03/01—SE ENERGY/TR
- Research, calculation and publication on the "District heating system developments in Sundsvall Energy Company" Sundsvall, Sweden. This was done under the guidance of Professor Per Almqvist for Applied Heat and Power Technology course of Master Degree Programme.

## INTERNSHIPS

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1995 (4 months)

**Government Workshop** – Dematagoda, Sri Lanka

- Design and manufacturing of mechanical components -. Machining, forging and foundry process.

1997 (4 months)

**Ceylon Government Railways (CGR)** – Rathmalana, Sri Lanka

- Locomotive maintenance and mechanical processes of spare parts making - tool designing, machining, forging and foundry.

## TECHNICAL SKILLS

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Instruments: Specialised on the operations and the analysis of Micro Gas Chromatography (Micro GC)

## COMPUTER SKILLS

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Applications: Windows 10, Word 2010, Power Point, Access, Photoshop, Microsoft Office, Netscape Navigator, Explorer, Search Engines.

Technical: AutoCAD, EES, Mat lab, Prosim

## LANGUAGES

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Sinhalese	Mother tongue
English	Fluent - Studying and working language for 14 years
Swedish	Basic

## ADDRESS

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