

A.M.J.S. Weerasinghe

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Research Experience

- National Institute of Fundamental Studies (NIFS) Sri Lanka - Graduate research assistant in Condensed matter Physics & Solid State Chemistry research group under Renewable energy research division (2014 - Present)

Academic Qualifications

- University of Peradeniya – Post Graduate Institute of Science (2014 – Present)
M.Phil. in Condensed Matter Physics.
- University of Ruhuna – Faculty of science (2008 – 2012)
B.Sc. (General) in Biological science with Physics, Chemistry, and Botany as major subjects.
- Kingswood college, Kandy (1994 – 2007)
Primary and secondary education

Publications

- Novel fumed silica based, polymer free, single salt electrolyte for Dye Sensitized Solar cells, 5th International Conference on Functional Materials & Devices (ICFMD 2015), University of Malaya, 4th - 6th August 2015
- Novel Polymer free, Quasi Solid State Electrolyte for Dye Sensitized Solar cells based on Fumed Silica, Annual research sessions 2014, National Institute of Fundamental Studies Sri Lanka, 12th - 13th February 2015
- Dye sensitized solar cells fabricated with polymer free quasi solid state (gel) electrolyte, Ruhuna International science and Technology Conference 2015, University of Ruhuna Sri Lanka 22nd - 23rd January 2015

Professional Qualifications

- Assistant Biomedical Engineer, Precision Tech Services (Pvt.) Ltd. authorized dealers for Philips Healthcare in Sri Lanka (2012 - 2014)
Responsible for field and customer service activities, installations, maintenance, troubleshooting in Bio-medical equipment and preparation of technical reports, specifications, and other technical documentation
- Trainee Naturalist, Eco Team Sri Lanka (Pvt.) Ltd (2011-2012)
Responsible for providing information and educating the clients about areas of nature trails, flora and fauna, biodiversity, and environment of the area.

Scholarships and Grants

- SPIE Education outreach grant, International Society for Optics and Photonics 2015
- Overseas Training Scholarship (OSTP), National Science Foundation Sri Lanka 2016
- Optics and Photonics Education scholarship, International Society for Optics and photonics 2016

Computer Literacy

- Advanced Certificate Course in Computing (ACCIT), Department of computer science, University of Ruhuna.
- Certificate course in computing, School of Electronics Youth training center, Kandy

Other relevant Training/ Workshops

- Collaborative research on PVdF-co-HFP Nano fiber based quasi solid electrolytes for DSSC, Department of Applied Physics, Chalmers University of Technology, Gothenburg, Sweden (02nd May – 27th June 2016)
- 5th Workshop on Photovoltaics “The need, Their Science and Applications”, Faculty of Science, University of Kelaniya, Sri Lanka (18th – 19th January 2016)
- 4th Workshop on “Thin Film Solar Cells and Their Science and Technology”, Department of Physics, University of Peradeniya, Sri Lanka (27th – 28th February 2015)
- Leadership training program – Ministry of technology, Research and Atomic Energy, Sri Lanka (10th – 11th May 2014)
- Industrial visits to Hyundai Motor Corporation Azan plant & ETRI advanced research institute, Daejeon, South Korea representing University of Ruhuna for the 2010 Korean government invitation program (13rd – 23rd July 2010)

Selected Contributions to Astronomical Outreach and Amateur Astronomy

- Implemented FASE-SRS amateur satellite reception station for real-time APT weather satellite data and Image acquisition
- Hosted “Tharu Puwath” astronomical news blog parallel to the Universe awareness program by Leiden University, Netherlands
- Lunar and planetary observation session, Vijaya College, Matale (16th March 2016)
- Conducted Workshop on Computer simulations in Rocketry, Faculty of Applied Science, Rajarata University of Sri Lanka (14th December 2015)
- Key note speech on Multiverse theory, Ranabima Royal College, Kandy (13th November 2015)
- Solar Observation session, Sri Chandananda Buddhist college, Kandy (27th September 2015)
- Workshop on Water Rockets, Maliyadeva College, Kurunagala (05th June 2015)
- Invited review “A Microbial perspective on possibilities of alien life in Solar System” Orbit magazine 2015, D.S. Senanayake College, Colombo

Serving in Professional bodies and Volunteer Services

- Student member, International society for Optics and Photonics (SPIE)
- Member of Expert advisory board, Texas Instruments USA
- Student Ambassador and Translator, Universe awareness program, University of Leiden, Netherlands
- Project Manager, FASE SPIE Provincial Astronomical Program 2015
- Licentiate member, Institute of Physics Sri Lanka
- Web Chair, Youth Nuclear society of Sri Lanka
- Editor/Educator, Foundation of Astronomical Studies and Exploration, Sri Lanka
- Member, Radio society of Sri Lanka

Extra-curricular activities

- Secretary of the Kingswood college New Inventors society (2006-2007)
- Secretary of the Kingswood college Astronomical society (2006-2007)
- Member of Kingswood college Electronics society (2001-2007)
- Member of Kingswood college science society (2006-2007)

Referees

- Prof. Lakshman Dissanayake
Research Professor,
Condensed Matter Physics and Solid State Chemistry research group,
National Institute of Fundamental Studies
Hanthana road,
Kandy
(makldis@yahoo.com)
- Dr. Rohan Senadeera
Visiting Associate Research Professor,
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