Department of Physics

Faculty of Science / University of Peradeniya



Dr. Lahiru Koshalika Narangammana

B.Sc. (Perad.), Ph.D. (Connecticut, USA)

Senior Lecturer

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About Me

I obtained my first degree in physics from University of Peradeniya. After graduating with a first class honors degree, I went on to pursue a doctoral degree in condensed matter physics at the University of Connecticut, USA. My doctoral thesis work involved fabrication and characterization of superconducting thin films. I have hands-on experience with many experimental techniques such as pulsed laser deposition, neutron diffraction, nuclear magnetic resonance (NMR), synchrotron and laboratory X-ray diffraction (XRD) and synchrotron and laboratory Mossbauer spectroscopy. I am interested in fabricating and characterizing new materials and devices for various technological applications.

Higher Education Qualifications

PhD

University of Connecticut, Connecticut
USA
(2014)

BSc

University of Peradeniya
Sri Lanka
(2007)

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Awards, Scholarships, Memberships & Fellowships

- Member of the American Physical Society from 2012 to 2015
- University Award for Academic Excellence **(**University of Peradeniya, Sri Lanka, July 2007)
- Ruth and Paul Klemens Fellowship (University of Connecticut, August 2008)
- Dwight Hills Damon Graduate Fellowship in Experimental Physics (University of Connecticut, May 2013)

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Positions Held

- Post Doctoral Research Fellow at Sri Lanka Institute of Nanotechnology - (2014- 2015)
- Visiting Lecturer at ICBT Kandy Campus- (2015)
- Senior Lecturer at Uva Wellassa University- (2015-2017)
- Secretary of the Physics Departmental Committee- (2018/2019, 2019/2020)
- Department Representative of University of Peradeniya Science Teacher's Association (UPSTA)- (2019/2020, 2020/2021)
- Department Representative of the Library Committee of Faculty of Science- (2020/2021)
- Department Representative of the Student Welfare and Advisory Committee of Faculty of Science- (2020/2021)

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My Teachings

- PH205: Thermal and Statistical Physics
- PH341: Semiconductor Physics and Devices
- PH406: Statistical Physics
- PH440: Solid State Theory

Research Interests (Research Fields/ Projects)

Conducting polymers, Value addition to Sri Lankan natural resources like graphite and Eppawala apatite, Low cost device construction

Ongoing Research and Projects

Fabrication of Thermoelectric Generators using Non-toxic Materials

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Key Publications

Appl. Phys. Lett. - (2013)

Low temperature crystal structure and large lattice discontinuity at Tc in superconducting FeTeOx films.

Conferences

American Physical Society March Meeting

HELD AT : USA - (2012 to 2015)

International Research Symposium Uva Wellassa University

HELD AT : Sri Lanka - (2016 and 2017)

Research Congress, Post Graduate Institute of Science, 2020 (RESCON 2020)

HELD AT : Post Graduate Institute of Science (PGIS) - (26-28 November, 2020)

My Publications

Please goto the website.

https://sci.pdn.ac.lk/physics/staff/Lahiru-Koshalika-Narangammana

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