



Welcome to ISymRU 2021

Multidisciplinary International Research Symposium of Rajarata
University of Sri Lanka
ISymRU 2021 will be held as a Virtual Event on the **21st and 22nd of
December 2021** at Rajarata University of Sri Lanka.

**" Research and Innovation Towards Global
Sustainability Through Rural Empowerment "**



Faculty of Technology, Rajarata University of Sri Lanka welcomes you to the International Symposium of Rajarata University 2021 (**ISymRU 2021**) planned to be held online 21-22 December 2021. Rajarata University of Sri Lanka proudly celebrates its 25th Anniversary in the year of 2021. During this hard time endured by everybody in the world, Rajarata University would like to be a platform for disseminating and gaining knowledge both locally and globally.

Key findings and in-depth studies of the researchers will be recognized by providing an opportunity to publish with one of the world's best publishers.

Symposium tracks

- ✓ Agriculture
- ✓ Basic & Applied Sciences
- ✓ Computer Science and Informatics
- ✓ Education, Language and Distance Learning
- ✓ Engineering and Technology
- ✓ Interdisciplinary Studies
- ✓ Management and Economics
- ✓ Mathematics, Statistics and Data Science
- ✓ Medicine and Public Health
- ✓ Social Sciences and Humanities





**International Research
Symposium of Rajarata
University of Sri Lanka 2021**

3 hours ago

Congratulations to awardees who have
received the recognition at the RUSL awards
2021

Organized and Hosted by Faculty of
Technology

Department having the highest cumulative
citations for the based on Google Scholar...

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1

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Rajarata University
International Research
Symposium (ISymRU 2021)

Multidisciplinary International
Research Symposium of
Rajarata University of
Sri Lanka

Hybrid SYMPOSIUM

21st & 22nd
of December
2021

Rajarata University of Sri Lanka proudly celebrates its 25th anniversary in the year of 2021. During this hard time endured by everybody in the world, Rajarata University would like to be a platform for disseminating and gaining knowledge both locally and globally. ISymRU 2021 will be held under the timely theme of "Research and Innovation Towards Global Sustainability Through Rural Empowerment".

Symposium Tracks

- ✓ Agriculture
- ✓ Basic & Applied Sciences
- ✓ Computer Science and Informatics
- ✓ Education, Language and Distance Learning
- ✓ Engineering and Technology
- ✓ Interdisciplinary Studies
- ✓ Management and Economics
- ✓ Mathematics, Statistics and Data Science
- ✓ Medicine and Public Health
- ✓ Social Sciences and Humanities

Publishing of the paper
All accepted abstracts will appear in the proceedings of the conference and selected papers will be published as full papers in Elsevier Proceedings of the symposium.

Keynote Speakers



Professor Deepika Udagama
Professor of Law,
University of Peradeniya,
Sri Lanka



Professor Brad Day
MSU Foundation Professor,
Department of Plant, Soil and Microbial
Sciences, College of Agriculture and
Natural Resources,
Michigan State University, USA

Important Dates

Submission of Abstract Opens	15 th September 2021
Abstract Submission Deadline	15 th October 2021
Notification of Acceptance	30 th November 2021
Registration Deadline	10 th December 2021
Camera Ready Paper	
Submission Deadline	10 th December 2021
Symposium	21 st and 22 nd December 2021

More Information
www.rjt.ac.lk/isymru

Contact Information

Dr. T.C. Bamunuarachchige
Symposium Chair

Dr. Mithila Bandara
Secretary (0772458496)
symposium.rusl@rjt.ac.lk

Faculty of Technology, Rajarata University of Sri Lanka, Mihintale, Sri Lanka

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**Prof. Deepika Udagama**

Professor of Law
Department of Law
University of Peradeniya , Sri Lanka

**Prof. Brad Day**

MSU Foundation Professor
Director of the Molecular Plant Sciences Graduate Program in the Department of Plant, Soil and Microbial
Sciences
Michigan State University (MSU), USA

**Prof. Yuansong Wei**

Director, Laboratory of Water Pollution Control Technology
Research Center for Eco-Environmental Sciences
Chinese Academy of Sciences. China

PRE-CONFERENCE WEBINAR

Please click on the webinar image to register and get the zoom link



Pre-conference Webinar International Symposium of Rajarata University 2021

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Webinar Topic

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epidemiology in medical parasitology. Richard is the former Team Lead of the Parasitic Diseases Diagnostic Reference Laboratory at the CDC and his career has involved both positions in Australia, West Africa and the USA. Richard has written over 100 journal publications and over 27 textbook chapters. Richard is a member of the World Health Organisation Diagnostic Technical Advisory Group on Neglected Tropical Diseases.



Dr Catherine A. Gordon BSc, PhD, is a postdoctoral researcher at the QIMR Berghofer Medical Research Institute and lecturer in Parasitology at the University of Queensland and the Queensland University of Technology. Her research is focused on using molecular tools to understand the biology and epidemiology of a range of parasitic diseases including schistosomiasis, soil-transmitted helminths, and intestinal protozoa. She is particularly focused on developing rapid point-of-care diagnostics for use “in the field,” where these parasitic diseases occur to allow for rapid treatment and accurate prevalence data to better understand epidemiology of disease.

Session moderator



Session moderator: **Prof. Kosala Weerakoon**, MBBS, MPhil, PhD, FRSPH(UK) is a Professor in Medical Parasitology, and Head of the Department of Parasitology, at the Faculty of Medicine and Allied Sciences, the Rajarata University of Sri Lanka and a Visiting Scientist at the QIMR Berghofer Medical Research Institute, Brisbane, Australia. His current research mainly focuses on Clinico-epidemiology and diagnostics of tropical infectious diseases, with particular emphasis on human intestinal parasitoses, rickettsial infections, and acute undifferentiated fevers. His research on tropical infectious diseases has lead to over 40 peer-reviewed journal publications with more than 1100 citations.

<https://learn.zoom.us/meeting/register/u5wudeippjwqGNIDdyf28SMEsNLNrUBGxTt>



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Date : 16th December 2021

Time : 10:30 am onwards

For more information contact

ISymRU 2021 secretariat

Dr. Mithila Bandara, Tel No. +94 (77) 2458496, symposium.rusl@rjt.ac.lk

Registration:
FREE



Diagnostics for Accurate Case Detection and Surveillance



Pre-conference Webinar
International Symposium of Rajarata University 2021

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Faculty of Technology, Rajarata University of Sri Lanka welcomes you to the International Symposium of Rajarata University 2021 (ISymRU 2021) planned to be held online from

Webinar Topic:**Soil health, food security and fertilizers****Speaker**

Dr. Thusitha Amarasekara is a Senior Lecturer attached to the Department of Agricultural Engineering and Soil Science, Faculty of Agriculture Rajarata University of Sri Lanka. He has obtained BSc degree in Agriculture from University of Peradeniya and MPhil in Soil Science, PhD in Integrated Water Resources Management from Postgraduate Institute of Agriculture, University of Peradeniya. His research interests are soil fertility management and water resources management. He was the General Secretary (2013- 2014) and the President (2016 – 2019) of Soil Science Society of Sri Lanka which is one of the well-established professional societies in the country. He served as the Vice President of “World Science Congress” a scientific forum established in India from 2013 to 2018. Currently he is on sabbatical leave to serve as the Chief Executive Officer/ Director, University College at Batangala, Eheliyagoda.

Moderator: Dr. Dharamasiri Dissanayake

<https://learn.zoom.us/meeting/register/u5cofu2rpzguGdw7mIYy3VTMPX2GxCdmey7h>



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Date : 16th December 2021

Time : 2:30 pm onwards

Registration:
FREE



Soil health, food security and fertilizers



21st -22nd December 2021. Rajarata University of Sri Lanka proudly celebrates its 25th anniversary in the year of 2021. During this hard time endured by everybody in the world, Rajarata University would like to be a platform for disseminating and gaining knowledge both locally and globally. This webinar is one of the series of pre-symposium webinars organized by the ISymRU 2021 Organization Committee.

Webinar Topic :

Strongyloides stercoralis in humans and in dogs - are they all the same?

Speaker



Prof. Adrian Streit, Max-Planck-Institut für, Germany

According to recent estimates about 600 million people are currently infected with the intestinal nematode *Strongyloides stercoralis*. In addition to parasitic adults, which are all females and reproduce by parthenogenesis, these worms can also form non-parasitic adult generations which consist of females and males. Although *S. stercoralis* infections are frequently associated with no or only minor symptoms, strongyloidiasis can take a fatal progression, in particular in people with a weakened immune system. It has been known for a long time that in dogs *Strongyloides* worms most similar to human *S. stercoralis* can be found and that dogs can be experimentally infected with human derived *S. stercoralis*. Therefore, generally, *Strongyloides* spp. in dogs are considered to belong to the species *S. stercoralis*. If so, dogs might serve as a reservoir for human infective *S. stercoralis*. We sampled *S. stercoralis* from humans and from dogs in various geographic places and used molecular genetic markers and whole genome sequences from single worms to compare them. We, and others, found that dogs carry worms indistinguishable from the ones found in humans along with one or several types not present in humans. Different populations of *S. stercoralis* showed very different tendencies to form non-parasitic adults. I will present our findings and discuss, from the point of view of a biologist, the questions to what extent strongyloidiasis is a zoonotic disease and if what is generally considered to be *S. stercoralis* is actually a complex of multiple, closely related species.



<https://learn.zoom.us/meeting/register/u51qde-vpjwjGdEvs8syxzS95byIeHXJRolN>



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Date : 17^h December 2021
Time : 2:00 pm onwards

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Registration:
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zoom
Webinar

**Pre-conference Webinar****2021****International Symposium of Rajarata University 2021**

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Webinar Topic :**Qualitative Data Analysis Using NVivo Software****Speaker**

WHMS Samarathunga (Manoj), PhD, is an academic at Rajarata University of Sri Lanka. He also serves as a co-director of the International Center for Interdisciplinary Culture Heritage and Tourism Research of China and Sri Lanka. Dr.Samarathunga is a Qualitative Research expert in particularly with computer-aided data analysis. He has contributed to the capacity development of many academic staff members within the Sri Lankan University system through workshops organized by the Staff Development Centers of many Universities. Additionally, Dr.Samarathunga is the President of the "Sri Lanka Research Community which is aimed at supporting early-career academics in Sri Lanka. Top of that, Dr.Samarathunga is an author, a reviewer, and performs as the editorial board member to many indexed journals in the world. His research interests are tourist gaze and power, tourism planning, tourism anthropology, post-war tourism, and tourism and reconciliation. Dr. Samarathunga has shared his knowledge through number of workshops conducted in reputed universities and educational institutes in Sri Lanka.

Moderator: Dr. D.M.C. Dissanayake

<https://learn.zoom.us/joining/register/u5wtce2vpz4vHNyJlPktmhcc9OIibWfzkRt>

**Date : 17th December 2021****Time : 7:00 pm onwards**

Qualitative Data Analysis Using NVivo Software



Pre-conference Webinar International Symposium of Rajarata University 2021

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Webinar Topic :

Fungi and Lichens ; Beauties and the Beasts of Nature

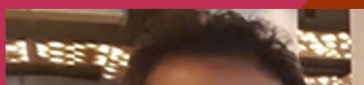
Speakers



Prof. Nalin Wijayawardene joined College of Biological Resource and Food Engineering, Qujing Normal University, China in 2019 as a Professor in Mycology. Prof. Wijayawardene completed his B.Sc. special degree in Biodiversity Conservation at Faculty of Applied Sciences, Rajarata University of Sri Lanka. Prof. Wijayawardene obtained his Ph.D. in Mycology from Mae Fah Luang University, Thailand in 2016.



Dr. Samantha Karunarathna joined Kunming Institute of Botany, Chinese Academy of Science, China in August 2016 as a mycologist. Dr. Karunarathna has completed his B.Sc. special degree on Botany at the Faculty of Science, University of Peradeniya in 2006. Dr. Karunarathna's current research interests are taxonomy, phylogeny and domestication of edible mushrooms.



Dr. Jayalal is a lichenologist and a field Botanist from Sri Lanka. He has teaching experience on Forestry, Lichenology, Molecular

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Time : 7:00 pm onwards

Moderator: Dr. Ajith Rathnayake

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Registration:
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Fungi and Lichens: Beauties and Beasts of Nature



Pre-conference Webinar

International Symposium of Rajarata University 2021

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Webinar Topic :

Value Addition to Local Mineral Resources

Speaker



Senior Professor Gamini Rajapakse serves in the Science Faculty, University of Peradeniya. He earned his B.Sc. Specials Degree in Chemistry from University of Peradeniya. He completed his Ph.D. and D.I.C., at the Imperial College of Science, Technology and Medicine, London, United Kingdom. He serves as a visiting Professor in the Research Institute of Electronics and Graduate School of Science and Technology, Shizuoka University, Japan. Senior Prof. Rajapakse has supervised number of projects on various disciplines such as Electrochemistry, Electronically Conducting Polymers, Clay-Polymer Nanocomposites, Hydroxyapatite Coatings on Stainless Steel Prostheses for

Moderator: Prof. Ajith Herathhttps://learn.zoom.us/join/u5Irfu-spjIqHtR_zh4jPIWYK67MBSiBhZKv

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Dr. Mithila Bandara, Tel No. +94 (77) 2458496, symposium.rusl@rjt.ac.lk**Date : 19th December 2021****Time : 7:00 pm onwards**Registration:
FREE**Value Additions to Local Mineral Resources****15****September 2021**

Submission of Abstract opens

**31****October 2021**

Abstract Submission Deadline

**01**

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Decemebr 2021

Camera Ready Paper Submission Deadline



December 2021

Early Bird Registration Deadline



Decemebr 2021

Symposium



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