

Faculty of Resource Science & Technology

e-Newsletter RLL

Special points of interest:

- An Unexpected Visitor @ RLL
- 1st NARILES
- The Science Avenger Project
- The Innovation Day

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Visitors from Education Malaysia Australia (EMA), Jabatan Pendidikan Tinggi (JPT), Education Malaysia Global Services (EMGS) and Jawatankuasa Pengarah Antarabangsa (JKPA) 8 September 2022



A lovely day and thank you for visiting us @ RLL.

Visit from the Community, Kampung Meriyu, Lundu (3 September 2022)



Orientation Program in Agrotechnology (6 October 2022)



Research @ RLL: An Unexpected Visitor @ RLL

Dr Dency Flenny anak Augustine Gawin

It was a bright sunny morning in UNIMAS on 27 September 2022. My students and I, together with Madam Lee Kheng Sim from Sarawak Forestry Corporation were gathered at the front porch of Plant Research Centre within the Real Living Lab (RLL). While waiting for any birds to be caught inside the secondary forest of RLL, Madam Lee and I noticed one interesting bird flying over the mangrove forest which is located opposite of RLL, and then hovering over the RLL mangrove forest. We saw it somewhere at 9.30 am. Madam Lee managed to identify the bird as the Oriental Pied Hornbill. The hornbill hovered the RLL mangrove forest for about 2-3 minutes, and then it landed and perched on one of the tallest branches. I managed to take few pictures of this hornbill using my iPhone. The hornbill just stayed at the branch not more than 10 minutes, it then flew hovering the RLL mangrove forest for the last time before disappearing into the mangrove forest opposite of the RLL.



The lonely Oriental Pied Hornbill on of the tree branches in RLL
(Photographer: Dency Gawin).

A brief description of Oriental Pied Hornbill:

It is a small black-and-white hornbill with a whitish-yellow bill and “helmet”. Its body is primarily black, but with a white belly, wing and tail edges and facial white creamy patch. Sexes are similar, but males have a much larger “helmet” than the female. It is one of the ten hornbill species in Malaysia, and among the smallest hornbill species within the Southeast Asian Region. This bird species is more tolerant to human habitation than other hornbill species. They can be found in large city parks as well as open forests and edges. They are noisy and social, often giving loud yelping calls to their flock-



Close up picture of Oriental Pied Hornbill (Photographer: Bernard Dupont).

Teaching & Learning Activities @ RLL Junior Scientist Program (25 September 2022)

Dr. Mohamad Hasnul bin Bolhassan

The Junior Scientist Program, organized by the Children's Activity Center (Pusat Aktiviti Kanak-Kanak , PAKK) Kota Samarahan in collaboration with the Faculty of Resource Science and Technology (FSTS), was participated by 47 school students. Activities involve visit to the Arboretum and RLL. Students were taught to observe the plant, fungus and animal samples under microscopes. Students were also exposed to experimental activities.



Teaching & Learning Activities @ RLL

STF1023 Introduction to Ecology (11 November 2022)

Dr. Jeffrine Rovie Ryan Japning

This field visit was conducted as one of the components of teaching and learning of the STF1023 Introduction to Ecology Course. During the field visit, students were exposed to the importance of ecological knowledge necessary for the management of the environment. Highlights include the important concepts in ecology, giving broad coverage on the limiting factors as well as intra- and interspecific interaction of a population in various types of ecosystems. A total of 59 students of the 1st year undergraduates of the Animal Resource Science and Management Programme were involved, accompanied by three lecturers and a technical staff. By the end of the course, students are expected to be able to point out the important concepts in ecology, identify the limiting factors for each ecosystem, distinguish between the intra- and inter-specific interactions of a population, and discuss on the current environmental issues.



1st year students of Animal Resource Science and Management Programme attending the field visit to the Real Living Lab



Students collecting data on the various types of abiotic and biotic factors influencing the ecosystem

1st Natural Resources Inaugural Lecture Series (NARILES), 19 October 2022

Prof. Dr. Ramlah Zainudin

The Natural Resources Inaugural Lecture Series (NARILES) is a platform for knowledge sharing as well as discussion sessions on issues concerning National Resources Management (NRM). This is also consistent with the University's goal of becoming a leading global university for a sustainable future. The topics of interest are:

- ◆ Sustainable Management of Land Resources
- ◆ Preserving and Improving Fresh Water Resources
- ◆ Marine and Coastal Environment Protection
- ◆ Biodiversity Conservation and Recovery
- ◆ Green Environment
- ◆ Climate Change
- ◆ Natural Products
- ◆ Enhancing NRM-related skills, capacity, and engagement
- ◆ High-Quality Planning Leads to Effective NRM Actions

One World Paradigm Global Crisis

Global Warming, Decline of Wildlife, Loss of Biodiversity, Malaysia Crisis, Intervention, Domestic Environmental Issues

THINK GLOBALLY and ACT LOCALLY

By Datuk Professor Dr Ghazally Ismail



Datuk Prof Ghazally in action!



When old friends meet...



Participants of 1st NARILES

The Science Avenger Project

30 November 2022

Prof. Dr. Ramlah Zainudin

The Science Avenger is a project to identify Scientist heroes (upper secondary school) who can restore the glory of science among school and university students, thereby increasing interest in the field of science and providing a sufficient pool of scientists to provide a workforce for the state government in the digital economy, the sustainable development of Sarawak's natural resources, and other STEM fields as the world transitions into the era of IR4.0. This project involved 30 students and 6 accompanying teachers in total from SMK Tun Abdul Razak, SMK Tabuan Jaya, SMK Kota Samarahan, SMK Muara Tuang, and SMK Sadong Jaya.



The participants of the Science Avenger Project



Module Biotechnology



Module Plant



Module Zoology



Module Chemistry



Module Aquatic

The Innovation Day (8 December 2022)

Assoc Prof Dr Sim Siong Fong

The Innovation Day aims to showcase the research products from FRST and to engage with the industries for potential collaboration. The RLL is opened to students and public on the Innovation Day.



Orchid House



Kelulut Station



Mushroom House

