

EECC DOCTORAL SEMINAR

AIT
SEMINAR

Date: Thursday, 29 August 2019
Time: 14.00-15.00 hrs.
Venue: S101 (SERD Meeting Room)



Ms. Arlene Lu Gonzales

Dear Faculty, Staff and Students,

You are cordially invited to attend EECC Doctoral Seminar on **“Freshwater Mangrove Ecological Engineering: Development of a Green Biotechnology for Eutrophic Urban Anthrome”** by Ms. Arlene Lu Gonzales (ID 119286), a candidate for the degree of Doctor of Philosophy in the Climate Change and Sustainable Development Program, Department of Energy, Environment and Climate Change, School of Environment, Resources and Development.

Abstract:

Many of the important ecological systems including wetlands and mangrove forests are lost annually at the expense of urbanization. Mangroves are small trees that grow in saline or brackish water. However, various species have demonstrated tolerance to freshwater and flourish vigorously, hence this study was conceptualized. With a very limited study on freshwater mangroves, a thorough study of them may produce the needed fundamentals on their use. The pilot-scaling in a shallow lake at AIT aims to revitalize a healthy West Lake ecosystem through pollution sequestration along with other eco-engineering approaches. This study introduced *Rhizophora apiculata*, a species with magnificent stilt roots that can serve as a habitat to microbial community facilitating N and C cycling, biodiversity enhancement, climate change mitigation and adaptation, and added landscape value.

Speaker Profile:

Ms. Arlene L. Gonzales educational background is on Environmental Science (Bachelor) and Environmental and Conservation Ecology (Masters). Before coming to AIT, she is a lecturer at the Mariano Marcos State University, Philippines.

She is currently working under the supervision of Dr. Oleg Shipin.

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