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Website: www.vafs.gov.vn

Course Fee :

$450 (USD)

Includes instruction, materials, training kit, local transportation, meals, and lodging

Sponsorship

Eight sponsorships are available that cover the course fee and international transport of participants from South East Asian Countries. Four more places are available for self-funded applicants.

Use the attached application form and email to: tatarahayu@yahoo.com by the deadline of July 30, 2018.

Date :

September, 24 – 29, 2018

Place:

Forest Protection Research Centre, Vietnamese Academy of Forest Sciences, Hanoi, Vietnam

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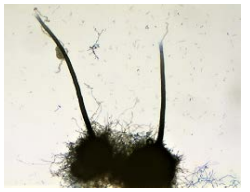
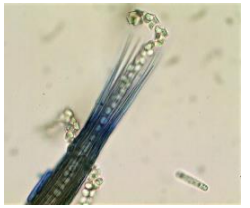
Cooperating Departments and Institutions :

- Universitas Gadjah Mada, Indonesia **(UGM)**
- Vietnamese Academy of Forest Science **(VAFS)**
- International Society of Zoological Sciences **(ISZS)**
- Asia Pacific Forest Invasive Species Network **(APFISN)**
- Asia Pacific Association of Forestry Research Institution (**APAFRI)**

Mini Training on

CAPACITY BUILDING FOR FOREST PEST AND DISEASE EXPERTS IN THE SOUTHEAST ASIA REGION





Vietnam, September 24 – 29, 2018

Background

Plantations of non-native fast-growing forest tree species have expanded rapidly in Southeast Asia (SEA). Longer rotations have been accompanied by the emergence of new pests, diseases and new host-pest combinations that has never been seen before. New pest and disease problems have also emerged in areas that were previously free from such pests and diseases. Reviews and investigations on the emergence of diseases in plantation forests have been made over the past ten years by SEA countries. *Acacia mangium*, which has been planted over the large area in Southeast Asia and Oceania, is now suffering from diseases especially red root rot disease caused by *Ganoderma philippii*, dieback and stem canker associated with *Ceratocystis*, heart rot disease associated with some basidiomycetes and ascomycetes fungi, and leaf rust disease caused by *Uromyces sp. Eucalyptus* spp., which is also widely planted and planned to be a replacement for *Acacia* spp. is also being impacted by some dangerous diseases such as stem canker associated with *Ceratocystis* sp., complex leaf diseases and more recently, leaf rust diseases caused by *Puccinia psidii*.

Since pests and diseases in the planted forests of SEA countries are increasing both in number and severity, cooperation and collaboration between researchers and managers among the SEA countries is essential to mitigate their impacts. The number and expertise level of forest pathologists in SEA is limited, so improving their capability through capacity building and forming an informal group of SEA expertise's is desirable.

This course will focus on improving capacity of forest pathologist in selected SEA countries, through a technical training program based on integrated pest/disease management (IPM).

Training contents :

- Field Identification and collection of *Ceratocystis*, *Phytophthora*
- Laboratory assessment of collected *Ceratocystis*, *Phytophthora* and *Botriosphaeria*.
- DNA extraction of collected *Ceratocystis* and *Phytophtora*
- Field monitoring and IPM of *Ceratocystis* in acacia and eucalypt plantations
- Field monitoring and IPM of *Phytophthora* in acacia and eucalypt nurseries.
- Microtechniques