

Protecting Coastal Areas with Forests

Toward the Development of Disaster Prevention and Mitigation Technology

Date

14:00-16:30(JST) on January 26, 2022
Online Seminar**Register
Free**

Japanese and English

[Simultaneous
translation]

Keynote Speaker

Dr. Toyohiko MiyagiHonorary Professor, Tohoku Gakuin University /
Chief Engineer, Advantech Co., Ltd.Please register online at
(<https://forms.office.com/r/0V6VdGdiUk>)For more information, please visit at
(http://redd.ffpri.affrc.go.jp/events/seminars/2022/20220126_en.html)

Photo : T. Sugimoto

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Forestry and Forest Products Research Institute (FFPRI), Japan

Supported byForestry Agency, Ministry of the Environment, Director General for Disaster Management Cabinet Office,
Japan International Cooperation Agency (JICA)

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Toward the Development of Disaster Prevention and Mitigation Technology

Purpose of the event >>>>

In recent years, an increase in the intensity and frequency of torrential rains and typhoons has been reported from many parts of the world, and there is a risk of increasing scale and frequency of slope disasters and severe storm surge damage in coastal areas.

In November 2021, the 26th Conference of the Parties (COP26) to the United Nations Framework Convention on Climate Change (UNFCCC) was held in Glasgow, UK. In this conference, the importance of forests as a "Nature-based Solutions" that contributes to both mitigation and adaptation to climate change was once again emphasized.

The REDD-plus and Forest-based Disaster Risk Reduction (F-DRR) Research and Development Center at the Forestry and Forest Products Research Institute (FFPRI), Japan, is currently engaged in research on both mitigation and adaptation to climate change with the use of forests. Such research includes the application of disaster prevention and mitigation technologies that utilize forest functions as adaptation measures in developing countries.

Since ancient times, Japan has been hit by natural disasters such as typhoons and tsunamis. As a countermeasure, mountain disaster control technologies that utilize the disaster prevention and mitigation functions of forests have been

developed. In coastal areas, as a disaster prevention measure, forests have also been used as buffer zones around residential areas to protect living spaces from natural hazards, such as sediment runoff, floods, tsunamis, storm surges, and strong winds. Such forest-related disaster prevention and mitigation technologies, combined with auxiliary facilities, are expected to be applied to the developing countries that are trying to promote disaster prevention measures. Such technologies can be applied with relatively low-cost and expected to promote the improvement of the multifaceted functions of forests, e.g. source of timber and non-timber forest products, watershed protection and carbon sink.

This seminar aims to explore and discuss forest-related technologies that can protect people living in the coastal areas of developing countries from natural disasters. It includes presentations of reports and sharing of experiences from various countries, introductions of latest research findings, and discussions of local needs and approaches to the creation and management of mangrove forests. It also includes a panel discussion on the current issues and future directions regarding the "Creation and Management of Forests with Disaster Prevention and Mitigation Functions".

Program

Opening remarks

Dr. Toru Asano (Nakashizuka), Director General of Forestry and Forest Products Research Institute

Greeting from Guest of Honor

Mr. Zentaro Kosaka, Director-General, Private Forest Department, Forestry Agency, Japan

Keynote Speech

Dr. Toyohiko Miyagi Protecting Coastal Areas with Forests : Experience for the Future

Session 1 Forest Technology for Protecting Coastal Area

Dr. Hideaki Yanagisawa (Tohoku Gakuin University)
Disaster Prevention Function of Coastal Forest

Dr. Kenji Ono
Afforestation of Coastal Disaster Prevention Forest

Session 2 Initiatives in the field

India : Dr. Rupesh K Bhomia (CIFOR)

Vietnam : Dr. Nguyen Thuy My Linh (VAFS)

Philippines : Dr. Rodel Lasco, Ms. Perpilli Vivienne Tiongson, Ms. Marianna Vargas (OML Center)

Fiji : Mr. Aporosa Ramulo (Ministry of Forestry, Fiji)

Panel Discussion Creation and Management of Forests with Disaster Mitigation Functions

Keynote speakers and session speakers will participate.

Keynote Speaker

Dr. Toyohiko Miyagi

Honorary Professor,
Tohoku Gakuin University /
Chief Engineer, Advantech Co., Ltd.



Toyohiko Miyagi was born in 1951. He graduated from the Faculty of Letters, Tohoku Gakuin University, in 1974 and received his doctorate degree from the Faculty of Science, Tohoku University, in 1980. He became an assistant professor in the Faculty of Letters at Tohoku Gakuin University in 1980. In 2005, he moved from a professor at Faculty of Letters to a professor in the Department of Regional Studies, Faculty of Liberal Arts, Tohoku Gakuin University, retiring in 2019.

On the Surveying day, June 3, 2017, the Geospatial Information Authority of Japan (GSI) presented him with a certificate of appreciation for his distinguished service. His major research interests include natural geography, landforms of hilly slopes, landslide landforms, and geo-ecology of mangrove forests. He has also been promoting natural geography and disaster prevention education using hazard maps and GIS in recent years.

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