

INTRODUCTION OF THE 10TH WORKSHOP

-----BY FUJIAN NORMAL UNIVERSITY

This 9TH workshop of FJNU will focus on the land degradation challenge, land degradation monitoring technology, and land degradation restoration strategies particularly about the large-scale mining land restoration.

1. Lecture Title: Effects of alien plant invasion on carbon cycling and eco-restoration in coastal wetlands of Min River estuary, China

Coastal wetland degradation is specified by the alien plant invasion, and results in the loss of carbon sink of tidal marshes and the more emission of the green-house gas. The presentation includes the overview of *Spartina* invasion into coastal and estuarine wetlands, Effects of *Spartina* invasion on carbon cycling and methane emission in wetland, the ecological Restoration on estuarine wetland of Min River, Fuzhou.

Presented by Prof. Chuan Tong, Fujian Normal University

Prof. Chuan Tong, he got his Ph.D in Environmental Sciences in Peking University, M.Sc. in Ecology in Inner Mongolia University, and B.Sc. in Ecology in Inner Mongolia University.

He had won “The First Rank Award on Science and Technology Progress of Chinese Academy of Sciences”, “The Second Rank Award for the Youth Scientist in Peking University”, “Huang Hua Award in Peking University“, “The First Rank Award on Science and Technology Progress of National, Education Committee of China” etc.

He had been the coordinator of more than 20 projects sponsored by National Natural Science Foundation of China and other institutes. He had published more than 70 academic papers in the field of ecology, environmental science.

His interests are focused on Estuarine wetland biogeochemistry, Plant ecology and ecosystem restoration, Ecological and environmental monitoring and assessment, Biological conservation, Environmental indicators and policy, Application of remote sensing and GIS in ecology and natural resource management.

2. Lecture Title: Soil Erosion Monitoring Based on Multi-Source Data

Soil erosion is a popular reason of land degradation in Fujian, China, because the province has the subtropical marine monsoon climate with the annual rainfall around 1400-1900 mm and around 80% of the hilly area. The presentation will be focused on the soil erosion monitoring technology by use of multi-source Remote sensing data and GIS technology. In the presentation, Remote sensing data including Landsat TM and high resolution data Quickbird

data, DEM, soil digital map and rainfall data, are integrated in the soil erosion model USLE(the Universal Soil Loss Equation) for the calculation of soil erosion annually in the Pingtan Island, Fujian, China.

Presented by Prof. Jinming Sha, Fujian Normal University

Prof. Jinming Sha, He got his Ph.D in Remote Sensing in Zhejiang University, B.Sc. in Natural resources in Shanxi Agricultural University. He had worked as a Post-doctor in Royal Holloway ,University of London, in Agricultural Ministry of Canada and Chengdu University of Technology. He had been the coordinator of more than 30 projects sponsored by the Ministry of Science & Technology Ministry of China, EU, and the local governments. He had published more than 50 academic papers.

His interests are focused on Remote Sensing and GIS, Rural development and landscape, Environmental evaluation and monitoring.



3. Lecture Title: Land degradation and soil environmental quality in Fujian

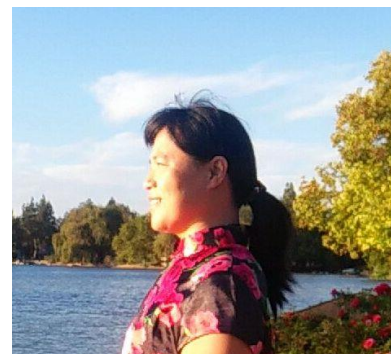
Land degradation is popular in different regions with the dense disturbance of human activities such as the fast urbanization and industrialization on land surface. The presentation will focused on the typical land degradation classes and its effects, soil environmental quality in arable land and tea garden in Fujian, land degradation monitoring by use of remote sensing data in Fujian. Finally, the Soil degradation specialization, localization and strategies for problem-solving are regarded as the challenge of the field.

Presented by Associate Prof. Xiaomei Li, Fujian Normal University

Xiaomei, Li, she got Ph.D in Physical Geography in Fujian Normal University, M.Sc. in Environmental Science in Beijing Normal University, and B.Sc. in Soil Science & Plant Nutrient in Shanxi Agricultural University, China.

She had been the coordinator of more than 30 projects in the field of Environmental Impact Assessment(EIA), Regional environmental planning. She had published more than 30 academic papers.

Her interests are focused on the field of Soil Remote Sensing, urban landscape, Regional Ecological planning and assessment, EIA.



4. Lecture Title: Damage Characteristic and Restoration Technology of Ecosystem in Large-scale Opencast-Coal Mine Area in China

Coal Mining is an important industry in China, land degradation caused by coal mining includes direct excavation, machine compaction and artificial displacement, it is dramatically difficult to be restored. This presentation overviews the Large-scale Opencast Coal Mining in China, presents a few ecological restoration cases for the degraded land caused by the opencast coal mining, and summarizes a series of innovative technology for restoring the degraded land.

Presented by Prof. Zhongke Bai , China University of Geosciences in Beijing, Part-time professor of Fujian Normal University

Prof. Zhongke, Bai, He got his Ph.D in Agricultural ecology in Zhejiang University, M.Sc. in Soil Science in Shanxi Agricultural University, B.Sc. in Forest science in Shanxi Agricultural University.

He had been the coordinator of more than 50 projects sponsored by the Ministry of Land and Resources of China, National Natural Science Foundation of China, and local governments. He had published more than 100 academic papers.

His interests are focused on Land Reclamation and Ecological Rehabilitation of degraded land, land management, land restoration standards etc.

