

SEMINAR ON CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

By Dr. WONG Man-sing, Charles, Dr. LEU Shao-yuan, Ben, and Ir. Dr. LAI Wai-lok, Wallace

INTRODUCTION

The Department of Land Surveying and Geo-Informatics (LSGI) is honoured to announce that Dr. Charles Man-sing, WONG, Ir. Dr. Wallace Wai-lok, LAI, and Dr. Ben Shao-Yuan, LEU are invited by the Royal Institution of Chartered Surveyors (RICS) to deliver a seminar on Using Remote Sensing of Vegetation Monitoring in Hong Kong on 21 April 2016 in Wanchai.

EVENT OVERVIEW

Vegetation contains large reserves of carbon that are vulnerable to disturbance linked to human activities including development and climate change. Accurate estimates of vegetation, vegetation health and biomass carbon in Hong Kong are thus urgently required to support the future development of our city and ecosystem conservation. However, currently there is no such detailed multi-scale study in Hong Kong.

The seminar covered some key features and technologies of vegetation monitoring including the “Green Index Map of Hong Kong”, “Ground-based vegetation thermography” and “Carbon sequestration modelling”. These were the first studies of their kind to integrate multi-scale high resolution satellite imagery, airborne LiDAR data, in-situ measurements and numerical modeling to derive a vegetation baseline study for Hong Kong.

The seminar was attended by academic staff, university students and professionals.

ABOUT THE SPEAKERS



Dr. WONG Man-sing, Charles is an Assistant Professor in the Department of Land Surveying and Geo-Informatics at the Hong Kong Polytechnic University. He has been the official site manager for NASA’s AERONET station in Hong Kong since 2005. In 2005, Dr. Wong and Prof. Janet Nichol received a Faculty Award for Outstanding Performance/Achievement (team award for research and scholarly activities) from the Hong Kong Polytechnic University. In 2006-2007, he was a Fulbright scholar with the Earth System Science Interdisciplinary Center at the University of Maryland. In 2014, he received an Early Career Award from the Hong Kong Research Grants Council. He has been leading and working on various research projects including the use of remote sensing to study the urban heat island effect, urban environmental quality, landslides, vegetation and ecosystems, spectral mixture analysis, aerosol retrieval and air quality monitoring.

Dr. LEU Shao-yuan, Ben is an Assistant Professor at the Hong Kong Polytechnic University and a licensed Professional Engineer (P.E.) in California. He received his BSc/MSc from the Forestry Department of the National Taiwan University and his PhD from the Civil Engineering Department at the University of California, Los Angeles (UCLA). Before coming to Hong Kong at 2013, Dr. Leu was as a Postdoctoral Fellow at the United States Department of Agriculture (USDA) Forest Products Laboratory. Dr. Leu's expertise is in physiochemical analysis and resource mining from lignocellulosic materials (i.e. wood, shrubs, and herbs). His current projects focus on converting timber wastes into liquid fuels, natural fiber-plastic composites and evaluating the carbon sequestration potential of rain gardens.



Ir. Dr. LAI Wai-lok, Wallace is specialized in the use of nondestructive testing, survey and evaluation to investigate unseen underground utility and engineering structures with technologies like ground penetrating radar and infrared thermography. He is currently an assistant professor and lab in-charge of the underground utility survey lab in the Department of Land Surveying and Geoinformatics at the Hong Kong Polytechnic University. Dr. Lai has been serving as a guest scientist at the Federal Institute of Materials Research and Testing (BAM) in Berlin, Germany since 2010. He is also a technical assessor for the Hong Kong Laboratory Accreditation Scheme (HOKLAS), Innovation Technology Commission of the HKSAR Government.

NOTES

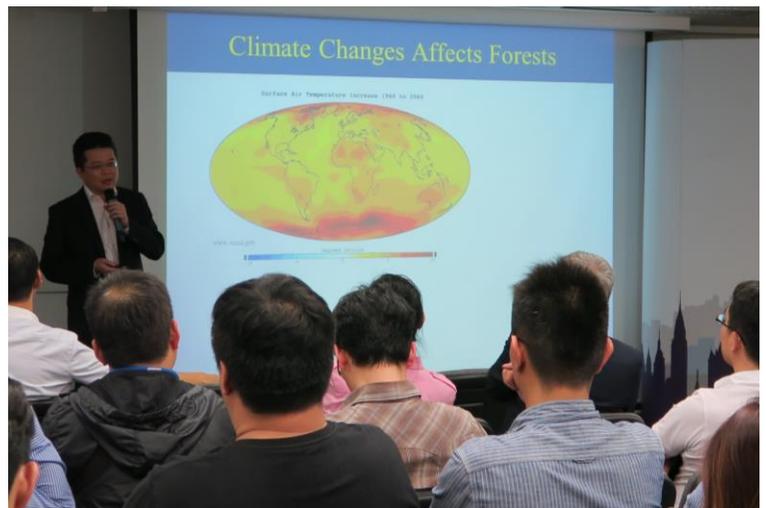
The representative of the Royal Institution of Chartered Surveyors (RICS) thanked the speakers for delivering Continuing Professional Development (CPD) seminar on Using Remote Sensing of Vegetation Monitoring in Hong Kong.

HIGHLIGHTS



Dr. WONG Man-sing, Charles was explaining Green Index Mapping.

Dr. LEU Shao-Yuan, Ben was describing how climate changes would affect forests.



Ir. Dr. LAI Wai-lok, Wallace was presenting his research on tree trunk and tree root by using nondestructive survey methods.

