

SEMINAR BY PROFESSOR BINGFANG WU

Dear Colleagues

All are welcome to attend a guest lecture presented by **Professor Bingfang Wu**, head of Division of Digital Agriculture in the Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, China.

Seminar title: Basin-Wide ET monitoring and ET management

Details:

Tuesday 1st of October 2013

3.30pm – 4.30pm

Engineering C1 Theatre, Room 407, Level 4 Infrastructure Eng. (ENGINEERING C BLOCK, Level 4, Enter from door indicating blocks C&D. Take stairs or lift to fourth floor and head west down the long corridor.)<http://www.studentadmin.unimelb.edu.au/mobile/EngineeringC1.html>

Abstract:

The latent heat of evapotranspiration (ET) is one of elements of water cycle and plays an important role for water resource management in water scarcity areas. Compared to water balance method or *in situ* measurements, an operational integrated monitoring method of basin-wide ET from remote sensing data is essential and the only approach to derive basin-wide ET data. Based on multi-source data, new algorithms were integrated into the ETWatch algorithm and software system, which has been validated and applied in many arid and semi-arid basins of China .

Recognizing that evapotranspiration (ET) represents the dominant consumptive use of water in the hydrologic cycle, basins in water scarcity area need to adopt ET management approach, which comprises four stages: (i) a basin-scale water consumption balance; (ii) determination of a target ET consistent with sustainable water consumption; (iii) identification of water consumption tradeoffs, competition and feedback among different water sectors (agricultural, industrial, domestic, and socio-environmental); and (iv) basin-wide monitoring of sustainable water consumption.

Biography

Dr. Wu Bingfang currently is a professor and the head of Division of Digital Agriculture in the Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, China. He is member of Education Committee of Chinese Academy of Sciences, and he is co-chair of GEO/GEOSS agriculture task. His research interests include the remote sensing applications in agriculture and water resource. Being the products of research projects, the related operational systems mainly developed by his team include CropWatch System, ETWatch System, DroughtWatch System.

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