

# Sampling Strategies for Large-scale Forest Inventories Utilising Multiple Data Sources

Workshop organized by Beijing Forestry University

10-13 March 2015

Beijing, China



北京林业大学  
Beijing Forestry University



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# WORKSHOP PROGRAM

## DAY 1 – 10 March 2015

8:00–22:00 Registration and Welcome Reception, Xijiao Hotel

## DAY 2 – 11 March 2015

*PLENARY SESSION 1, CHAIR: Göran Stahl & HuaGuo Huang, ROOM: Xueyan Building A0302, Beijing Forestry University (BFU)*

8:30–9:00 Opening Ceremony, President of BFU, Xiuhai Zhao & Klaus v. Gadow

9:00–9:30 **Optimizing sample plot measurements in a multipurpose forest inventory**

Annika Kangas, University of Helsinki, Finland

9:30–10:00 **Forest Assessment in China: Methods and Results**

Weisheng Zeng, Survey and Planning Institute of State Forestry Administration, Beijing, China

*10:00–10:30 Coffee break (Group Photograph, in front of the Xueyan Building)*

10:30–11:00 **Estimators and Sampling of Stratified Heterogeneous Domains**

Jingfeng Wang, Institute of Geographic Sciences and Natural Resources Research, CAS, China

11:00–11:30 **Mapping forest attributes: The continuum of real-space and covariate-space imputation methods with sampling implications**

Valerie LeMay, University of British Columbia, Canada

11:30–12:10 **Model-based or model-assisted estimation in forest inventories**

Göran Ståhl, Swedish University of Agricultural Sciences, Sweden

*12:00–14:00 Lunch*

*PLENARY SESSION 2, CHAIR: Annika Kangas & Piermaria Corona, ROOM: Xueyan Building A0302, BFU*

14:00–14:30 **Model-Assisted Estimation of Biomass using Landsat History Metrics**

Sean Healey, United States Forest Service, USA

14:30–15:00 **RAPID: a 3D radiative transfer model for VNIR, TIR and LiDAR**

HuaGuo Huang, Beijing Forestry University, China

15:00–15:30 **Small area estimation in the Norwegian NFI**

Johannes Breidenbach, Norwegian Forest and Landscape Institute, Norway

*15:30–16:00 Coffee break*

16:00–16:40 **Sampling Strategies for estimating forest cover from remote-sensed two-phase Inventories**

Piermaria Corona, Lorenzo Fattorini, University of Tuscia, Italy

16:40–17:10 **Compatible and Time-Additive Two-Stage Estimators of Change Components with Permanent Plots**

Adrian Lanz, Swiss Federal Institute for Forest, Snow and Landscape Research, Switzerland

17:10–17:40 **Assessment and Analysis of Harvest Events**

Xiuhai Zhao and Klaus v. Gadow (presented by KG)

*18:00–20:00 Dinner*

## DAY 3 – 12 March 2015

Discussions continue while sightseeing in Beijing

## DAY 4 – 13 March 2015

Departure of foreign participants