

Carbon Sequestration: Progress and Prospects
Changbaishan Conference Program
June 21-24, 2004

Monday, June 21 Am --Forestry and Soil Assessment

8:30 – 9:10 Opening Session

8:30-8:40 Opening remarks -- Chen Jing Ming

8:40-9:10 Introduction to China's carbon cycle program -- Liu Gaohuan

9:10 – 11:00 Session 1: Forest Assessment

Chairs: Xue Jianhui and Sean Thomas

9:10-9:30 Potential for Native Species Plantations in Carbon Forestry -- Sean Thomas

9:30-9:50 Carbon Sequestration Potential of Major Tree Species Used in the 'Grain to Green' Program -- Xue Jianhui

9:50-10:10 Impacts of Forest Management on Stand-level Carbon Sequestration Capacity -- Peng Shikui

10:10-10:30 Measurements of Biomass and NPP of Various Forest Types – Wu Yongbo

10:30-10:50 China's Current Reforestation – Li Nuyun, National Bureau of Forestry

10:50 – 11:00 Questions and Discussion

11:00-11:15. Tea Break

11:15 – 12:45 Session 2: Soil Assessment

Chairs: Shi Xuezheng and Pan Jianjun

11:15–11:35 A Base for Researching Carbon Cycling of Terrestrial Ecosystems in China: Introduction to 1:1,000,000 Soil Database of China -- Shi Xuezheng

11:35-11:55 Characteristics on Organic Carbon of Soil Profiles at Changbaishan and Xingguo Sites – Yu Dongshen

11:55-12:15 Laboratory Incubation to Separate Soil Carbon Pools for the Liping and Heihe Sites – Pan Jianjun

12:15-12:35 Evaluation of InTEC Soil Carbon Module and a New Parameterization Scheme -- Yang Lixia

12:35-12:45 Questions & Discussion

Monday, June 21 PM – Remote Sensing

2:00 – 3:30 Session 3: Site-level Remote Sensing Applications

Chairs: Zhu Qijiang and Liu Gaohuan

2:00-2:20 LAI and NPP Observation and Simulation in Changbaishan Natural Reserve Using BEPS -- Sun Rui

2:20-2:40 LAI and NPP Observations and Coupled Water and Carbon Cycle Modeling in the Upper Reaches of Heihe -- Zhou Yuyu
2:40-3:20 LAI and NPP Observations and Mapping at the Liping and Xingguo Sites: Overview (Tian Qingjiu), Liping Results (Xia Xueqi), Xingguo Results (Luo Zhimeng)
3:20-3:30 Questions & Discussion

3:30-3:45 Tea Break

3:45-5:30 Session 4: China-wide Remote Sensing Applications

Chairs: Mingzhen Chen and Tian Qingjiu

3:45-4:05 MODIS Leaf Area Index Data Processing (Year 2001, All China) --
Mingzhen Chen

4:05-4:25 New LAI Algorithms to Utilize Information in Sun and View Angles -- Deng
Feng

4:25-4:45 Using MODIS BRDF Products to Estimate LAI -- Tang Shihao

4:45-5:10 MODISoft Development and Sample Products -- Liu Rong-gao

5:10-5:30 Questions & Discussion

Evening Invited Presentation

8:00-9:00 China's Forest Carbon Balance Estimation Based on Inventory and Remote Sensing -- Fang Jingyun of Beijing University

9:00-9:30 Carbon Sequestration in the Broader Context of CO₂ and Climate Stabilization -- Danny Harvey

Tuesday, June 22 AM – Carbon Cycle Modeling

8:45 – 10:15 Session 5: Carbon Modeling (1)

Chairs: Danny Harvey and Wang Shaoqiang

8:45-9:10 Using BEPS Model to Simulate NPP and ET in Forest Ecosystem of China –
Feng Xianfeng

9:10-9:30 Distribution of Soil and Available Water Capacity in China -- Zhou Wenzuo

9:30-10:00 Spatiotemporal Patterns of Carbon Sinks and Sources in China's Forest: 1901-2001 -- Wang Shaoqiang

10:00-10:15 Questions & Discussion

10:15-10:30 Tea Break

10:30 – 12:30 Session 6: Carbon Modeling (2)

Chairs: Rorke Bryan & Sun Rui

10:30-10:40: Simulating Carbon, Water and Energy Fluxes at the Changbaishan Tower Site Using Hourly BEPS -- Wang Qiufeng

10:40-11:00 Assessing the Potential Impacts of Future Climate Change on China's Forest Carbon Cycle -- Danny Harvey

11:00-11:30 The Integration of China's Ecological Data -- Liu Gaohuan
11:30-12:00 Introduction to the China Flux Project -- Yu Guirui
12:00-12:30 Questions & Discussion

Tuesday, June 22 PM – Integrated Assessment

1:45 – 4:00 Session 7: Integrated Assessment in Three Major Sites

Chairs: Yin Yongyuan and Joe Whitney

1:45-2:10 Integrated Assessment Modeling in the Core Sites -- Yin Yongyuan
2:10-2:30 Integrated Assessment in Liping -- Zhou Suoquan
2:30-2:50 GIS-based Integrated Assessment in Liping – Ian Caldwell
2:50-3:10 Integrated Assessment in Heihe – Peng Hao
3:10-3:30 Integrated Assessment in Dunhua, Changbaishan Region -- Wang Chunmei
3:30-3:50 Impact of Agricultural to Forest Land Conversion: A Case of
Changbaishan, China -- Xu Wei
3:50-4:00 Questions & Discussion

4:00-4:15 Tea Break

4:15 – 6:00 Session 8: General discussion on Three Components Linkage

Chairs: Jing Chen and Liu Gaohuan

With panelists: Sean Thomas, Xue Jianhui, Fang Shengzuo, Yin Yongyuan, Zhou Suoquan

(We need a clear description of how the IA model will integrate the other two components to arrive at a workable decision-support system for policy makers.)

Notes by Liu Gaohuan, Chen Mingzhen & Julia Pan

Evening session 8:00 Project Monitoring and Management

Chairs: Julia Pan and Liu Gaohuan

Panelists: Richard Baerg – CIDA Monitor

Prof. Joe Whitney – Result-based Management Senior Advisor

Coordinators of all institutions must be present, and everyone is welcome

Wednesday, June 23 – Changbaishan Field Trip (8:30Am to 5:30Pm)

Thursday, June 24

8:45-12:30 General Wrap-up Discussion and Concluding Remarks -- led by Profs. Chen Jingming and Liu Gaohuan

Notes by Liu Gaohuan, Chen Mingzhen and Julia Pan

Agenda:

- 1) Coordination of field works in 2004
- 2) Completion of site-level data acquisition and processing

- 3) Completion of site-level and country-level carbon modeling and provision of results to IA groups
- 4) Plans for mutual visits
- 5) Policy Workshop in spring 2005 in Toronto
- 6) Publication of results (monograph and special issues)
- 7) Project management (progress report, final report and financial issues)
- 8) Any other issues

Thursday, June 24
Afternoon – Travel back to Beijing

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Program Committee -- Chaired by Profs. Jing M. Chen and Liu Jiyuan
(in alphabetical order)

Prof. Rorke Bryan – Dean, Faculty of Forestry, University of Toronto
Prof. Jing M. Chen – Carbon Project Director, Professor of Geography, University of Toronto
Prof. Kang Ersi -- Cold & Arid Regions Environmental & Engineering Research Institute, CAS
Prof. Liu Jiyuan- Institute of Geographical Science and Natural Resource Research, CAS
Prof. Liu Gaohuan - Institute of Geographical Science and Natural Resource Research
Prof. Virginia Maclaren – Dept. of Geography & Planning, University of Toronto
Prof. Ouyang Hua - Institute of Geographical Science and Natural Resource Research
Prof. Pan Jianjun – Nanjing Agriculture University
Prof. Shi Xuezheng – Nanjing Institute of Soil Science, CAS
Prof. Sean Thomas – Faculty of Forestry, University of Toronto
Prof. Tian Qingjiu – Earth System Institute, Nanjing University
Prof. Xue Jianhui – Nanjing Forestry University
Dr. Yongyuan Yin – Adaptation Research Group, Environment Canada
Prof. Zhu Qijiang – Centre for Remote Sensing, Beijing Normal University

Organizing Committee -- Chaired by Prof. Liu Gaohuan and Dr. Julia Pan
(in alphabetical order)

Dr. Mingzhen Chen – Department of Geography & Program of Planning, University of Toronto
Dr. Feng Xianfeng – Institute of Geographical Science and Natural Resource Research, CAS
Prof. Liu Gaohuan, Carbon Sequestration Project Manager
– Institute of Geographical Science and Natural Resource Research, CAS
Dr. Julia Pan, Carbon Sequestration Project Manager
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Ms. Wang Qiufeng – Institute of Geographical Science and Natural Resource Research, CAS
Mr. Zhou Wenzuo -- Institute of Geographical Science and Natural Resource Research, CAS