

AGENDA FOR THE CHINA-U.S. WORKSHOP

Tuesday, September 11, 2007

- 7:30-8:30 am Continental breakfast; participants check in and receive name badge (UT Conference Center, 4th floor auditorium)
- 8:30-9:30 am **Welcome and Introduction**
- 08:30 Welcome and opening remarks, including introduction of the Joint Center (Dr. Lee Riedinger, vice-chancellor, and Dr. Gary Sayler, workshop chairman and director of UT-ORNL JIBS)
- 09:00 Opening address by leaders of partnering Chinese institutes
(Dr. Gui-Bin Jiang, vice-director, RCEES, CAS)
(Xiu-Bin Li, vice-director, IGSNRR, CAS)
- 09:20 Introduction of the workshop objectives and guests (Dr. Joe Zhuang, coordinator of the China-U.S. Joint Center and the workshop)
- 9:30-12:00 pm **Keynote Addresses** (Moderator: Dr. Gary Sayler)
- 09:30 “Sustainable Bioenergy: Context, Challenges and Opportunities”
(Dr. Jerry Tuskan, Environmental Sciences Division, ORNL)
- 10:30 **Coffee Break** and workshop group picture
- 11:00 “Eco-environmental Impact of Bioenergy Production”
(Dr. John Bickham, Director, Center for the Environment, Purdue University)
- 12:00-1:00 pm **Lunch at the Hilton Hotel**
- 1:30-4:30 pm **Plenary Addresses** (Moderator: Dr. Yu-Guo Du, RCEES, CAS)
- 1:30 “Key Issues of Bioenergy Technology Development”
(Dr. Brian Davison, Bioenergy Science Center, ORNL)
- 2:00 “Conversion of Lignocellulose”
(Dr. Jonathan Mielenz, Biosciences Division, ORNL)
- 2:30 “Plant Genomics in Bioenergy Research”
(Dr. Tim Tschaplinski, Environmental Science Division, ORNL)
- 3:00 “Status of Bioenergy Development in China”
(Dr. Gui-Rui Yu, IGSNRR, CAS)
- 3:30 “China’s Energy Demand and the Potential of Bioenergy Production in China’s Terrestrial Ecosystem”
(Dr. Ming Xu, IGSNRR, CAS)
- 4:00 “The Tennessee Biofuel Initiative: A Model for Rural Economic Development & Environmental Sustainability”
(Dr. Tim Rials or Dr. Kelly Tiller, UT Forest Products Center)
- 4:30-4:50 pm **Coffee Break**
- 4:50-5:50 pm **Group Discussions** (Moderator: Dr. Neal Stewart, UT Institute of Agriculture, or Dr. Jonathan Mielenz, Biosciences Division, ORNL)
- Topic 1: “Novel and advanced bioconversion schemes (including biowastes)”
- Topic 2: “Genome Sequencing: Tailoring Plants and Microbes for Bioenergy (or Genetic Screening for Premier Bioenergy Plants)”
- 5:50-6:00 pm **Brief introduction of the schedule for Day 2**
- 6:00 pm **Adjourn**
- 7:00 pm **Dinner at Calhoun’s on the River**

Wednesday, September 12, 2007

- 7:30-8:30am Continental breakfast (UT Conference Center, 4th floor auditorium)
- 8:30-8:40am **Summary of Day 1 and Objectives for Day 2** (Dr. Gary Sayler)
- 8:40-10:40 am **Plenary Addresses** (Moderator: Dr. Brian Davison, Bioenergy Science Center, ORNL)
- 08:40 “Unforeseen Concerns and Consequences in Sustainability”
(Dr. Dan Simberloff, Nancy Gore Hunger Chair in Ecology, UT)
- 09:10 “Current Research of Cellulose and Its Application in China”
(Dr. Guo-Qiang Zhuang, RCEES, CAS)
- 09:40 “Landscape Design for Bioenergy Feedstocks”
(Dr. Virginia Dale, Environmental Science Division, ORNL)
- 10:10 “Carbon Sequestration by Terrestrial Ecosystem and Its Role in Biofuel Development in China” (Dr. Sheng-Gong Li, IGSNRR, CAS)
- 10:40-11:00 am **Coffee Break**
- 11:00-12:00 pm **Breakout Sessions**
- Session A: Bioenergy and Total Carbon Sequestration (Global Climate Change (in Auditorium))**
Moderator: Dr. Tristram West, Environmental Science Division, ORNL
- Topic 1: “CO₂-Neutral Bioenergy: A Sustainable Solution to Climate Change”
 - Topic 2: “Minimization of CO₂ Emission during the Entire Life-Cycle of the Bioenergy Plants”
- Session B: Ecological Sustainability of Bioenergy Production (on 3rd floor, room 302)**
Moderator: Dr. Ming Xu, IGSNRR, CAS
- Topic 1: “Biodiversity Risk of Bioenergy Development”
 - Topic 2: “Biogeochemical and Climatic Constraints for Biofuel Plants (or “Region-specific Biomass Production Strategies”)
- 12:00-1:00 pm **Lunch at Hilton Hotel**
- 1:30-3:30 pm **Plenary Addresses** (Moderator: Dr. Bruce Tonn, ISSE-UT)
- 1:30 “Urgent Requirements for Developing a Secure and Sustainable Environment”
(Dr. Randy Gentry, ISSE-UT)
- 2:00 “Chinese Ecosystem Network Observation and Modeling” (Dr. Yu-Ling Fu, IGSNRR, CAS)
- 2:30 “Potential and Development Trend of Bioenergy in Southern China”
(Dr. Shao-Qiang Wang, IGSNRR, CAS)
- 3:00 “Modified Local Soil (MLS) Technology to Remove Harmful Algae Blooms (HAB) and to Remedy Eutrophication in Shallow Lakes” (Dr. Gang Pan, RCEES, CAS)
- 3:30-3:50 pm **Coffee Break**
- 3:50-4:50 pm **Breakout Sessions**
- Session A: Environmental Impacts of Bioenergy Development (stay in Auditorium)**
Moderator: Dr. John Sanseverino, CEB-UT
- Topic 1: “Toxicity Concerns (gas, liquid, and solid biowastes generation)”
 - Topic 2: “Utilization of Biowastes for Bioenergy Production”
- Session B: Environmental Sustainability of Bioenergy Production (go to 3rd floor, room 302)**
Moderator: Dr. Gui-Bin Jiang, RCEES, CAS
- Topic 1: “Land Resources and Management for Sustainable Bioenergy Production: Can the land used for bioenergy maintain/improve land quality, and is it sustainable?”
 - Topic 2: “Water Use and Availability for Biomass Production”
- 4:50-5:00 pm **Brief introduction of the Schedule for Day 3**
- 5:00 pm **Adjourn**
- 6:00 pm **Leave for Dinner Cruise at Volunteer Landing on the Volunteer Princess**
(note: the yacht leaves the dock at precisely 6:30pm)

Thursday, September 13, 2007

- 7:30-8:30 am Continental breakfast (UT Conference Center, 4th Floor auditorium)
- 8:30-8:40 am **Summary of Day 2 and Objectives for Day 3** (Dr. Jie (Joe) Zhuang)
- 8:40-12:00 pm **Presentations on Governments' Perspectives for Bioenergy R&D**
Moderator: Dr. Randy Gentry, ISSE-UT
- 08:40 "Importance of Collaboration among Government, Academia, Industry, and Environmental Organization for Bioenergy Development" (Dr. Dennis Ojima, The H. John Heinz III Center for Science, Economics and The Environment)
- 09:10 "China-DOE Relations and the Bioenergy Plans of U.S. Department of Energy" (Tentative Dr. John Houghton, U.S. DOE)
- 09:40 "Bioenergy/Sustainability Activities at the U.S. NSF"
(Dr. Bruce Hamilton, Biochemical Engineering Program, NSF)
- 10:10 **Coffee Break**
- 10:30 "Opportunities in Environmental Biology at NSF"
(Dr. Ann Russell, Environmental Biology Program, NSF)
- 11:00 "International Opportunities at NSF"
(Dr. Rick Nader, NSF's Office of International Science and Engineering)
- 11:30-1:00 pm **Lunch in Atrium of UT Conference Center**
- 1:30-3:30 pm **Group Discussions** (Moderators: Dr. Gary Sayler and Dr. Gui-Bin Jiang)
- Topic 1: "Opportunities and Directions for China and U.S. in Bioenergy R&D"
 - Topic 2: "Mutually Beneficial- Mechanisms for China-U.S. Collaboration"
- 3:30-4:00 pm **Concluding Remarks** (Dr. Gary Sayler, workshop chairman)
- 4:00 pm **Workshop Ends**
- 4:00-5:00 pm **Post Workshop Activities**
- 4:00 Roundtable discussion on the plan for next year's workshop
- 5:00 Dinner at the Bridgeview Grill on Neyland Drive