



**China-US Workshop on Biotechnology of Bioenergy Plants
November 16-17, 2009
Knoxville, Tennessee USA**

Saturday, November 14, 2009

Breakfast – on your own

9:00AM

Bus loads at Hilton Knoxville for trip to the BioEthanol Plant and Switchgrass Field Site. Bus will return to Hilton Knoxville around Noon-1PM.

Sunday, November 15, 2009

Trip to Smoky Mountain National Park or other cultural sites

MONDAY, NOVEMBER 16, 2009
(Downtown Hilton Hotel, Hiwassee Room on 1st Floor)

- 7:30am Continental breakfast in lobby
- 8:30-9:30 am **Welcome and Introductions** by *Neal Stewart* (UT), Workshop Chair
- 8:30 Welcome and opening remarks by *Bill Brown*, UT
- 8:50 Guest introductions and Workshop Objectives by *Jie Zhuang*, UT
- 9:00 Opening addresses by leaders of the China-US Joint Research Center (*Gary Saylor*, JIBS, and *Randy Gentry*, ISSE)
- 9:30-12:00 pm **Keynote Addresses on Biotechnology of Energy Plants**
[Moderators: *Neal Stewart* (UT) and *Lai-Geng Li* (CAS)]
- 9:30 “Poplar Genomics and Biofuel” by *Gerald Tuskan*, ORNL
- 10:10 “Analysis of Transcriptome in *Leymus chinensis* using 454 Life Sciences Technology” by *Gong-She Liu*, CAS
- 10:50 **Coffee Break and Workshop Group Picture**
- 11:20 “Genetically Engineering Poplars for Modified Lignin Composition in order to Improve Its Utility as a Bioenergy Feedstock” by *Richard Meilan*, Purdue
- 12:00-1:00 pm **Lunch and Poster Presentations**
- 1:00-1:40 pm **Keynote Address on Woody Bioenergy Plants**
[Moderators: *Barry Bruce* (UT) and *Hai-Chun Jing*, (CAS)]
- 1:00 “Bioengineering of Photosynthesis: Putting PSI to Work” by *Barry Bruce*, UT
- 1:40-3:00 pm **Plenary Addresses on Woody Bioenergy Plants**
[Moderators: *Barry Bruce* (UT) and *Hai-Chun Jing* (CAS)]
- 1:40 “Dissection of Cellulose Synthase Complex in Populus” by *Lai-Geng Li*, CAS
- 2:00 “Quantitative Analysis of *Populus* Gene Expression in Response to Drought Stress Using Next-Generation Sequencing Technology” by *Xiao-Han Yang*, ORNL
- 2:20 “Analysis of Expressed Sequence Tags from Biodiesel Plant *Jatropha curcas* Embryos at Different Developmental Stages” by *Zeng-Fu Xu*, CAS
- 2:40 “The JcDof1 transcription factor, a new clock protein, is associated with the photoresponses in *Jatropha curcas*” by *Shi-Hua Shen*, CAS
- 3:00 “Evolution and Divergence of the Poplar Gene Family Encoding Xyloglucan Endotransglucosylase/Hydrolases in the Coding and Promoter Regions” by *Max Cheng*, UT
- 3:20-3:50 pm **Coffee Break**
- 3:50-5:50 pm **Group Discussion**
[Moderators: *Gary Saylor* (UT/ORNL, JIBS) and *Rick Meilan* (Purdue)]
Topic 1: Diversity of bioenergy plants and its importance for energy and the ecosystem
Topic 2: The future of plant biotechnology for bioenergy production
- 6:00-8:30 pm **Reception – Hilton Knoxville**

TUESDAY, NOVEMBER 17, 2009
(Downtown Hilton Hotel, Hiwassee Room on 1st Floor)

- 7:30am Continental breakfast in lobby
- 8:30-8:50 **Summary of Day 1** by *Neal Stewart* (UT)
- 8:50-12:00 **Plenary Addresses on Herbaceous Bioenergy Plant**
[Moderators: *Andreas Nebenführ* (UT) and *Shi-Hua Shen* (CAS)]
- 8:50 “*Purpose Grown Feedstocks: A Focus of the University of Tennessee*” by *Samuel Jackson*, UT
- 9:10 “Genetic Improvement of Sweet Sorghum (*Sorghum bicolor*) as a Dedicated Biofuel Crop in China” by *Hai-Chun Jing*, CAS
- 9:30 “Uncovering the Terpenoid Machinery for Biofuel Production” by *Feng Chen*, UT
- 9:50 “Adaptability Evaluation of *Panicum virgatum* L. Cultivars on the Loess Plateau” by *Yong-Qing Ma*, CAS
- 10:10 “Switchgrass Biotechnology in the Bioenergy Science Center” by *David Mann*, UT
- 10:30 **Coffee Break**
- Plenary Addresses on Herbaceous Bioenergy Plant**
[Moderators: *Samuel Jackson* (UT) and *Yong-Qing Ma* (CAS)]
- 11:00 “The Power of Movement in Plant Cells: Myosin Motors and Cytoplasmic Streaming” by *Andreas Nebenführ*, UT
- 11:20 “Seedling Biomass Partition and Water Use Efficiency of Switchgrass and Milkvetch under Monoculture and Mixture in Response to Various Water Availabilities” by *Bing-Cheng Xu*, CAS
- 11:40 “Allelopathic Potential of *Panicum virgatum* L. on Alfalfa and Perennial Ryegrass” by *Jun-Feng Shui*, CAS
- 12:00 “Economical and Environmentally Sound Switchgrass Production Practices for Tennessee” by *Burt English*, UT
- 12:20-1:20 pm **Lunch and Poster Presentations**
- 1:20-1:40 **Summary of Academic Presentations** (*Neal Stewart*, UT)
- 1:40-3:40 **Group Discussions on International Collaboration and Student/Scientist Exchange**
[Moderators: *Neal Stewart* (UT) and *Gong-She Liu* (CAS)]
Topic 1: The best methods for effective international collaboration and communication
Topic 2: Possibility of a regular China-US student exchange program
- 3:40-4:10 Coffee Break
- 4:10-4:30 **Concluding Remarks** (*Neal Stewart*, UT)
- 4:30-5:30 pm **Tour UT** (Plant Science Facility and Forest Product Center)
- 6:00 pm **Dinner – Hong Kong House, Kingston Pike**