3rd Intl. Potsdam GHG Flux Workshop – Nanjing, China
From leaf, soil & canopy to remote sensing & modelling
22 - 25 October 2018

POTSDAM GHG FLUX WORKSHOP

南京信息工程大学 Nanjing University of Information Science & Technology

AGENDA 22. October 2018

Monday (22 October)

8:00 - 9:00	Registration	
9:00-9:05	Opening remark (Zhiqiu Gao)	
9:05-9:15	Welcome speech (Beiqun Li, President of NUIST)	
9:15 - 10:10	**Leaf-Level Photosynthesis** Chair: Tom Avenson	**Tom Avenson** (LI-COR) Introduction to leaf-level photosynthesis theory and measurement principles
10:10 - 11:05		**Susanne von Caemmerer** (Australian National University) Impacts of temperature on photosynthesis and CO_2 diffusion processes
11:05 - 11:35		Tea & Coffee Break
11:35 - 12:05		Continued
12:05 - 12:30		**Joe Berry** (Carnegie) Chlorophyll fluorescence from molecule to canopy
12:30 - 13:30		Lunch
13:30 - 14:30		Continued
14:30 - 15:00		Tea & Coffee Break
15:00 - 16:00	**Soil Flux** Chair: Zhiqiu Gao	**Liukang Xu** (LI-COR) Soil GHG flux processes and measurement principles
16:00 - 17:00		**Tom Sauer** (USDA) Alternatives and challenges
17:00 - 18:00	**Poster Session** [incl. Catering]	

Tuesday (23 October)

8:00 - 9:00	Registration	
9:00 - 10:00	**Field and Ecosystem** Chair: Youngryel Ryu	**Xuhui Lee** (Yale University) Principles and challenges of eddy covariance from upland to aquatic ecosystems
10:00 - 11:00		**Jiemin Wang** (NW Institute of Eco-Env and Resources, CAS) Area-averaged flux measurements and scintillometry
11:00 - 11:30		Tea & Coffee Break
11:30 - 12:30		**Matthias Mauder** (Karlsruhe Institute of Technology - IFU) Quality assurance and quality control principles in eddy covariance
12:30 - 13:30		Lunch
13:30 - 14:30		**Natascha Kljun** (Lund University) Flux footprint modelling - approaches and applications
14:30 - 15:15		**Zhiqiu Gao** (NUIST) 3-year measurements of surface energy budget, CO_2 and CH_4 fluxes over a rice-wheat rotation cropland in the Eastern China
15:15 - 15:45		Tea & Coffee Break
15:45 - 16:30		**Gerardo Fratini** (LI-COR) Tovi - ecosystem data analysis platform
18:30 - 21:00	**Workshop Dinner**	

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Wednesday (24 October)

8:00 - 9:00	Registration	
9:00 - 10:00	**Regional and Global** Chair: George Burba	**Christopher Neale** (Daugherty Water for Food Global Institute, University of Nebraska) Evapotranspiration estimates through remote sensing - verification using flux tower data
10:00 - 11:00		**Youngryel Ryu** (Seoul National University) Remote sensing of photosynthesis from leaf to the globe: challenges and opportunities
11:00 - 11:30		Tea & Coffee Break
11:30 - 12:30		**George Burba** (LI-COR) Flux network to remote sensing
12:30 - 13:30		Lunch
13:30 - 14:30		**Christian Frankenberg** (Caltech) A glow in the light: Remote sensing of solar induced chlorophyll fluorescence
14:30 - 15:00		Tea & Coffee Break
15:00 - 16:00		**Jingming Chen** (University of Toronto) Diagnose then predict: Importance of remote sensing-based diagnostic modeling in global terrestrial carbon cycle research
16:00 - 16:15	**Closing Remarks (Zhiqiu Gao)**	

Thursday (25 October)

09:00 - 10:30	**Instrumentation and Software Demo** LI-COR Scientists	**A: Leaf level photosynthesis** measurements (LI-6800), including gas exchange, chlorophyll fluorescence, and the Rapid A-Ci Response (RACiR™) Method
10:30 - 11:00		Tea & Coffee Break
11:00 - 12:30		Continued
12:30 - 13:30		Lunch
13:30 - 15:00		**B: GHG Soil flux** measurements (CO_2/CH_4/N_2O): from instrumentation to data analysis (SoilFluxPro)
15:00 - 15:30		Tea & Coffee Break
15:30 - 18:00		**C: Eddy Covariance**: From instrumentation, to flux processing (EddyPro), to ecosystem analysis (Tovi, including 2D flux footprint modelling, gap filling, etc.)