The 2nd ASABE Global Evapotranspiration Symposium: Advances, Challenges and Future Needs in Measurements, Modeling and Applications at Various Scales

October 25-29, 2020 - Nanjing, China

Submission Topics

ET dynamics, processes, and feedback mechanisms across ecosystems
- Agriculture
- Forest
- Intercropped agro-forestry
- Urban
- Grassland
- Wetlands, Lakes
- Horticultural plants/crops/nurseries
- Alpine mountains, tundra, arctic, dry lands
- Lakes and Reservoirs
- Controlled environments (greenhouses, growth chambers, vertical farms)
- Role of ET on local to regional weather patterns (cloud formation, water recycling etc.)
- ET and land use change

Linkage of ET to ecosystem services
- Climate moderation of urban microclimatology (urban heat islands, urban dry island etc)
- Ecosystem productivity, fiber and food production
- Carbon sequestration
- Water supply including groundwater
- Groundwater dependent ecosystem

Innovative measurements of ET from leaf to Earth system
- Micrometeorological methods (Eddy covariance, scintillometry, Bowen ratio and energy balance, surface renewal etc.)
- Ecophysiological techniques (leaf gas exchange, sap flow)
- Lysimeter
- Experimental watershed water balance
- Isotope
- Remote Sensing

ET modeling and decision support system
- Biophysical models
- Crop and forest models
- Ecosystem and Ecohydrology models
- Estimate actual ET from potential ET (Crop Coefficients)
- Budyko energy and water balance framework
- Geospatial technology
- Limitations and Uncertainty estimation
- Energy Balance models

Applications of ET science in management and policymaking
- Irrigated and rainfed agriculture
- Vegetation-based ecological restoration including wetlands
- Blue water and green water source for ET
- Water-energy-food nexus
- Water security
- Drought monitoring and detection
- Snowpack and sublimation
- Intercropping in Agroforestry for Bioenergy
- Sustainable watershed management
- Urban planning
- Climate change mitigation and adaptation (e.g., drought, flood, etc.)
- Policy decision making

Partitioning ET into evaporation, transpiration, interception for various ecosystems using various techniques

Impacts of climate change and human activities on ET and ecohydrology

Global network for ET research, education, extension, training, and applications

Role of ET in large-scale natural resources assessment and policy-making

ET climatology (temporal trends and prediction under different climate scenarios)

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Abstract Deadline — March 15, 2020
Acceptance Notification — March 31, 2020
Abstract Reviews – May 1, 2020
Abstract Revisions Due – June 1, 2020