Eighth International Conference on Fluvial Hydraulics

River Flow 2016

July 10–14, 2016, St. Louis, USA

Key dates :

Sept. 1, 2015	Deadline for abstract submission
Oct. 1, 2015	Notification of provisional acceptance
Dec. 15, 2015	Deadline for paper submission
March 1, 2016	Notification of provisional paper acceptance/review comments
March 1, 2016	Master Class applications accepted
March 15, 2016	Notification of final acceptance of revised paper
March 15, 2016	Early registration begins
April 15, 2016	Deadline for Master Class applications
May 1, 2016	Master Class acceptance notification
May 1, 2016	Early registration ends
July 10, 2016	Master Classes
July 14, 2016	Technical Tour

Themes

A. River Flow and Transport Processes

- Laboratory and eddy-resolving numerical investigations of fundamental physical processes and transport in open channels
- Field studies and numerical investigations of flow and transport in natural streams
- Theoretical modeling
- Innovative field and laboratory instrumentation for the study of flow in open channels

Special session: Experimental techniques used in fluvial hydraulics

B. Sediment Transport and River Morphodynamics

- Mechanics of sediment transport
- Dynamics of bedforms and meandering streams
- River morphology and morphodynamics
- Bank erosion and protection
- Reservoir sedimentation
- Local scour around hydraulic structures
- Novel experimental techniques for study of particle laden flows and near-bed phenomena
- Numerical aspects of sediment transport and hyper-concentrated/granular flows

C. River Floods

- Coupling of watershed processes with stream dynamics
- Channel-floodplain interactions driven by floods
- Geomorphic dam-break flows and breach formation
- Flood propagation and control
- Numerical prediction of floods (2-D & 1-D models)
- Management of flood risk
- Flood mitigation and societal impact of floods

Special session: Flood prediction and flood mitigation in the Upper Mississippi River Basin

D. River Management, Ecology, and Restoration

- Sustainable engineering solutions for management of natural streams
- Competing uses of rivers for energy, agriculture and transportation
- Ecological aspects of river flows
- Flow in vegetated channels
- River training & design of river restoration structures
- River dams and design of fish passage structures
- Modeling tools for river habitat management
- Dynamics of invasive species

MASTER CLASSES

Students and young scientists interested in attending the master classes are invited to submit a two-page CV and a two-page description of their research between March 1 and April 15, 2016. Please consult the conference website for a list of master class topics. Participants will receive a certificate signed by the masters, and an invitation to a special dinner on Monday evening.

TECHNICAL TOUR

A half-day tour of the National Great Rivers Research and Education Center (NGRREC) near St. Louis and the applied River Engineering Laboratory of the U.S. Army Corps of Engineers in St. Louis will be organized.

http://www.riverflow2016.org

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