

## Eighth International Conference on Fluvial Hydraulics July 10–14, 2016, St. Louis, USA



**Downtown St. Louis**

### Venue

St. Louis is on Missouri's eastern border, on the western banks of the Mississippi River. The conference will take place on the Saint Louis University (SLU) campus near downtown St. Louis. Reasonably priced accommodations for students and young researchers will be available in a student residence hall on the SLU campus.

### Conference Website

For updated information on conference registration, scientific program, abstract submission, hotel accommodations, etc., please visit conference website: <http://www.riverflow2016.org>. Further inquiries can be made via email at [riverflow2016@uiowa.edu](mailto:riverflow2016@uiowa.edu).



### 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.

### Sponsor and Technical Exhibition

A technical exhibition will include a display of products, software, instruments, publications, and company presentations. (Interested vendors, contact: [riverflow2016@uiowa.edu](mailto:riverflow2016@uiowa.edu))

### 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.



# Eighth International Conference on Fluvial Hydraulics: July 10–14, 2016

## Welcome

River Flow has been established as the major international meeting event in the area of river engineering and fluvial hydraulics. The conference series has provided a forum to report on the latest scientific findings, to promote information exchange and cooperation among scientists, engineers, and researchers who share a common interest in various aspects of river flows and transport processes.

The conference will focus on the latest advances in experimental, theoretical, and computational tools in the field of fluvial hydraulics that can be used to deepen our understanding and capacity to predict flow and the associated fluid-driven ecological processes, anthropogenic influences (e.g., heat, dissolved and suspended organic/inorganic material), sediment transport, and morphodynamic processes.

Following the example of previous River Flow conferences that tried to attract particular attention to fluvial hydraulics issues related to a major river, special sessions dedicated to the Upper Mississippi River Basin, one of the largest of its kind in the world, will be organized. This river is of major economic and societal importance for the human communities that are located in its vicinity.

We look forward to welcoming you to River Flow 2016!  
Your local organizing committee (LOC)



C. Maxwell Stanley Hydraulics Lab



Jerry F. Costello Confluence Field Station

## Organization

The conference is co-organized by IIHR—Hydroscience & Engineering, University of Iowa (UI), Saint Louis University (SLU), and the Ven Te Chow Hydrosystems Laboratory of the University of Illinois at Urbana-Champaign (UIUC), in partnership with the National Great Rivers Research and Education Center (NGRREC) at Alton, Ill.

**Chair:** George Constantinescu (UI)

**Co-Chairs:** Marcelo Garcia (UIUC); Dale Chapman (Louis & Clark Community College & NGRREC); & Daniel Hanes (SLU)

## Main Topics

- 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



## 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

## Registration Fees

### IAHR/Co-Sponsors Members:

Standard registration: \$850

Early registration: \$750 (before May 1, 2016)

### Non-Members:

Standard registration: \$950

Early registration: \$850 (before May 1, 2016)

### Students:

Standard registration: \$500

Early registration: \$450 (before May 1, 2016)

**Accompanying person:** \$250