

USSD COMMITTEE ON HYDRAULICS OF DAMS CHARTER

Approved by the Board of Directors on 7/22/15

COMMITTEE DESCRIPTION

The USSD Committee on Hydraulics of Dams is the focus for all USSD activities related to hydrologic and hydraulic performance of dams. This includes analysis of floods and the reduction of flood impacts by dam projects, hydraulic design of spillways, outlet works, and other hydraulic structures related to multi-purpose project operation, analyses of discharges resulting from dam failures due to overtopping and breaching of embankments, overtopping of concrete dams and/or failure of appurtenant structures, hydraulic and hydrologic aspects of operation and maintenance, reservoir sedimentation issues and other related topics. To assist in carrying out its work, the Committee on Hydraulics of Dams has established the following three standing subcommittees: 1) Subcommittee on Sedimentation, 2) Subcommittee on Gates and Valves and 3) Subcommittee on Spillways.

TERMS OF REFERENCE

The Committee on Hydraulics of Dams has been established by the Board of Directors of USSD in 1976. The original purpose for its formation was to create a standing technical committee responsible for review of material generated by ICOLD and other National Committees related to hydraulics of dams. The committee was also to participate in the dissemination of technical material related to hydraulics of dams. This purpose has since been expanded to include hydrologic and sedimentation as well as hydraulic considerations. The Committee assists in encouraging and sponsoring conference papers and organizing workshops for USSD. Further, the committee assists in U.S. participation on the following ICOLD committees: Hydraulics of Dams, Sedimentation of Reservoirs, Dams and Floods. The Committee keeps the general membership informed of current issues in its areas of responsibility through timely publication of reports and white papers, announcements in the Newsletter, input to the committees section of the USSD website, and in the organization and execution of periodic workshops. The Committee shall also collaborate and/or assist with other committees in developing and promoting education and training activities under the four imperatives of the 2014-2017 Strategic Plan; Advocate, Educate, Collaborate, and Cultivate.

BACKGROUND AND HISTORY

Most recently the committee sponsored a popular workshop on Managing Spillway and Reservoir Capacity Changes at the 2013 ICOLD meeting in Seattle. The most recent publication sponsored by the committee is "Erosion of Unlined Spillways" in June 2006.

RESPONSIBILITIES

- A. Assist the officers and the Board of Directors of USSD in addressing issues and topics related to hydraulics and hydrology of dams.
- B. Coordinate Committee activities with other USSD and ICOLD committees, and the broader hydraulic and hydrologic engineering community.
- C. Review and prepare comments on technical bulletins, reports, and papers related to hydraulics and hydrology of dams.
- D. Prepare and disseminate technical bulletins, reports, and other documents on current topics of interest related to hydraulics and hydrology of dams.

CHAIR, AND VICE CHAIRS AND RELATED RESPONSIBILITIES

Chair: Martin J. Teal, PE
Vice Chair: Gregory Paxson, PE
Vice Chair (Young Professional): TBA

GOALS AND OBJECTIVES

Identify specific goals and objectives for a three year period beginning in 2014.

Advocate:

1. Provide technical information to support Advocacy Goals
2. Communicate with committee members relevant outreach information/activities

Educate:

1. Publish technical papers and presentation
2. Develop and implement conferences and workshops
3. Provide on-line resources

Collaborate:

1. Collaboration within USSD
2. Strategically collaborate with targeted US organizations
3. Strategically collaborate with targeted international organizations

Cultivate:

1. Improve committee operations

MEMBERSHIP

Martin J. Teal, Chair
Gregory Paxson, Vice Chair
George William Annandale
Steven L. Barfuss
John J. Cassidy
Brian Mark Crookston
Henry T. Falvey
Kevin C. Griebenow
Samuel L. Hui
Korey J. Kadrmas
James E. Lindell
Ramon Lopez-Rivera
Kevin J. Marshall
Noel Randy Oswald
B.T.A. Sagar
Chander K. Sehgal
Edward A. Serfozo
Robert I. Strand
Robert E. Swain
Darrel M. Temple