

USSD COMMITTEE ON CONSTRUCTION AND REHABILITATION CHARTER

Approved by the Board of Directors on 2/6/2020

COMMITTEE DESCRIPTION

The USSD Committee on Construction and Rehabilitation will, in collaboration with other USSD and ICOLD committees and the water resources community at large, address the role of construction techniques, construction management, contract selection, cost implications/ trends and construction activities in building and maintaining dams and dam related infrastructure.

Specific areas of focus include the following:

- Methods of dam construction and removal
- Effectiveness of construction in the reduction of risk
- Effectiveness of construction in maintaining infrastructure assets
- Effectiveness of construction in improved operations and maintenance
- Effectiveness of construction in the mitigation of the effects of aging
- Life-cycle costs and benefits of construction projects
- Effectiveness of measures to mitigate environmental impacts associated with construction
- Effectiveness of design in relation to construction methods and costs
- Implications of cost in relationship to contract method selection.

TERMS OF REFERENCE

The Construction and Rehabilitation Committee was established by the Board of Directors in the early 1970's. The Committee is charged with addressing the role of construction techniques, management, cost, and activities in building and maintaining dams and dam related infrastructure. The Committee assists and collaborates with other USSD Committees and professional organizations in matters related to the construction and rehabilitation of dams. Further, the Committee participates in *Committee M, Operation, Maintenance, and Rehabilitation* of ICOLD. The Committee keeps the general membership informed of dam construction related issues 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 will 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.

The Committee has four active Subcommittees developing whitepapers and supporting workshop and technical session activities. Those Subcommittees are as follows:

Cutoff Wall Construction	
Tom Brown, Chairperson	Matt Sheskier
Paul Krumm	Tom Hurley
Jack Kinley	Chris Kravanic
Dave Paul	John Rice
Greg Zamensky	Jim Obermeyer
Cost Estimating/Cost Trends	
Nick Patch, Chairperson	Jeff Allen
Justin Williams	Dave Paul
Dan Hertel	
Risk Management	
Rod Eisenbraun, Chairperson	Harold Kanara
Dan Hertel	Dan Wade
Mike Miller	Jerry Reed
Greg Zamensky	Jeff Martin
Jeff Allen	
Coffer Dams & River Management	
Dave Paul, Chairperson	Charlie Larson
Ken Hansen	Dan Johnson
Randy Bass	Victor Vasquez
Bill Fiedler	Jim Obermeyer

BACKGROUND AND HISTORY

The USSD Construction and Rehabilitation Committee focus is on the construction aspects of new dams, dam rehabilitation, and related infrastructure by creating, developing, and sharing a broad spectrum of technical and managerial information for dam practitioners. The Committee holds technical committee meetings at each annual meeting, conducts quarterly conference calls, leads the annual meeting’s technical sessions, holds workshops, and develops publications white papers and technical workshops. This committee has been supporting the ICOLD *Committee M, Operation, Maintenance, and Rehabilitation* since the committee was developed.

Since the early 2000’s, Committee M’s USSD representative has taken an active role in developing ICOLD bulletins and participating in Annual Meetings and Congresses. Since 2012 the USSD Committee has provided the Co-Chairman of the ICOLD committee M. Committee M has completed and submitted to ICOLD a new document titled “Underwater Inspection Guidelines,”

The USSD Committee members have developed and presented papers on “Alternative

Contracting Procedures”; completed the publication “Guidelines for Responsible Construction Cost Estimating for Engineers and Owners”; and are continuing work on a publication titled “Risk Management for Dam Construction”. Two publications that have been in development for the last few years are “Cofferdams/Water Management in Construction” and “Construction of Slurry Walls for Levees and Small Embankment Dams.” The Committee has submitted a proposal for the Fall 2020 Workshop series titled “Cofferdams/Water Management in Construction.” Other Workshop topics such as Construction Risk are being developed for future meetings.

A new subcommittee; “Cost Estimating/Cost Trends” has been established. The purpose of the Subcommittee is to gather cost data from projects and to look for developing trends. It is the primary goal of the Subcommittee to assimilate available cost information/estimates for new dam and rehabilitation projects at various stages and create a database of construction costs. In addition, the Subcommittee intends to publish Bulletins on a semi-annual basis summarizing relevant information/trends.

ICOLD REPRESENTATIVE

The USSD Board of Directors appointed Dan Johnson, past Chairman of the Committee as USSD representative and Co-Committee Chairperson of the ICOLD Committee M in 2018. That three year term expires in 2021.

CHAIR, AND VICE CHAIRS AND RELATED RESPONSIBILITIES

Chair: David Paul
Paul GeoTek Engineering
6313 Teller Street
Arvada CO 80003
paulgeotekeng@comcast.net
303-888-9348

Vice Chair: Nick Patch
Clark Bros. Inc
4404 Expressway Suite 202
Missoula MT, 59808
406-579-7358
npatch@clarkbrosinc.com

YP Vice Chair: TBD

GOALS AND OBJECTIVES

Advocate:

1. Provide technical information and resources to Committees and members to support USSD Advocacy Goals

2. Communicate with committee members about relevant outreach information/opportunities.

Educate:

1. Create technical whitepapers, workshops publish/ present them to a wide audience.
2. Share the committee's activities and whitepapers/publications with ICOLD by participating in annual meetings and congresses.
3. Support annual meetings and conferences by publishing papers and holding workshops
4. Provide on-line resources to the USSD website

Collaborate:

1. Collaboration within USSD by holding technical sessions at annual meetings and invite other USSD members to join in the discussions.
2. Strategically collaborate with targeted US organizations, such as ASDSO, ASCE, DFI, Universities, and State Dam Safety organizations.
3. Collaboration within ICOLD by participating in the ICOLD Committee M Terms of Reference and ongoing activities. Initiate participation in the Regional Club "National Committees of the Americas" (INCA) and assist in its growth.
4. Serve as a forum and network for professionals to discuss relevant construction topics related to dams and water resource projects. In addition, serve as a construction reference for those seeking information on dams outside of USSD.

Cultivate:

1. Continue to identify young professionals and encourage them to be active in subcommittees.
2. Select a young professional to fill the role of Vice Chairperson (young professional)

MEMBERSHIP

The Committee on Construction and Rehabilitation currently has 35 members. Outreach continues to be a priority of the committee, particularly the addition and involvement of younger members. The committee encourages its senior members to be advocates to their company or agency management to fund the participation of junior staff in this and other USSD committees.