

Mall för redovisning av svensk medverkan i ICOLDs kommittéer och arbetsgrupper

[SwedCOLDs delegater ska årligen rapportera från sina respektive kommittéer. Använd nedanstående mall och skriv 1-2 sidor. Rapporteringen kommer att läggas ut på SwedCOLDs hemsida.

Kommitté: [COMMITTEE ON HYDRAULICS FOR DAMS]

The Committee on Hydraulics for Dams met in Prague, Czech Republic, on the 4th July 2017.

This was the ninth meeting of the Committee on Hydraulics for Dams in the programme to carry out the tasks related to the preparation of a complementary issue of Bulletin 58 -1987, as defined by the TOR established by ICOLD upon completion of the previous phase.

Förordnandeperiod: [2013-2017]

Kommitténs ordförande: [Brasil P Machado, Brasilien]

Svensk delegat: [James Yang, Vattenfall AB/KTH, james.yang@vattenfall.com]

Kommitténs uppdrag:

The new Bulletin "Spillways of dams" will concentrate on large hydropower underdevelopment, more complex about hydraulic point of view, mainly for spillways in view to solve the problems of the increasing discharge capacity, the reduction of the cost and the available width .More environmental requirements will be met, with some new concepts and technical measures to be developed and applied

1. Everything which concerns of new types of spillways : capacity, shape, (for instance PK weirs)
2. New types of energy dissipaters, such as the slit flip bucket, flaring pier gate, jet flows collision combined with plunge pool in arch dam, orifice spillway tunnel, vortex shaft spillway tunnel;
3. Aeration and cavitations mitigation measures, mainly concentrated on the large spillway tunnels and chute spillways;
4. Flow induced vibration researches considering the large and high head radial gates and emergency gates by physical and numerical models and field observations;
5. Hydraulic field observations for the safety, verification of the project.

1.1 Membership and Participation

The following list depicts the Committee membership participation and the attendance to the Prague meeting.

COUNTRY PAYS	NAME OF PARTICIPANT NOM DU PARTICIPANT	P /A	OBSERVATIONS
Brazil	B. P. MACHADO (Chairman)	P	
China	GUO JUN (Vice-Chairperson)	A	
Australia	R. WARK	P	
Belgium	A. LEJEUNE (Chairman of Previous Phase)	A	Excused
Bolivia	G. RODRIGUEZ ROCA	P	
Canada	Z. MICOVIC	P	
Czech	J. HODAK	P	
France	F. LAUGIER	P	New member replacing B.TAQUET
Germany	R. HASELSTEINER	A	

India	SIBA PRASAD SEN	A	
Iran	M. HAKAMI	P	New member replacing C.FOULADI
Italy	A. PIETRANGELI	A	
Japan	T. TAKATSUKA	P	
Korea	I. KO	A	
Mexico	H. MARENGO	A	
Netherlands	B. PETRY (Former Committee Chairman)	A	
Norway	H-M. KJELLESVIG	P	
Pakistan	A. BASHIR	A	
Portugal	A. PINHEIRO	A	
Russia	R. SHAKIROV	P	
So. Africa	H-J. WRIGHT	P	
Sri Lanka	K. LAKSIRI	A	
Spain	A. GRANADOS	P	
Sweden	J. YANG	P	
Switzerland	A. SCHLEISS	P	
Switzerland	R. BOES	A	
UK	P. MASON	A	
USA	J. E. LINDELL	P	
Venezuela	A. MARCANO	A	
Argentina	D. MENENDEZ	P	Observer
USA	G. PAXSON	P	Observer
Russia	V. KUPRII ANOJ	P	Observer
Egypt	A. EL ZAWAHRY	P	Observer
USA	M. GEORGE	P	Observer

Agenda

1. Welcome address
2. Review of comments to the Spillway Bulletin received from ICOLD National Committees
3. Presentation of the development of the bulletin on debris and sediment blocking of spillways.
4. Indication by the Chairman of proposed organisation of the Committee for the new phase starting in 2018.
5. Conclusion and meeting adjournment

Welcome address

The Chairman welcomed participants and informed that the main objective of the meeting was to review comments received from ICOLD National Committees on the final draft of the Spillway Bulletin

Membership news and updating of list of participants and addresses

New members have been appointed to replace members who retired:

From France, Mr. F. Laugier replaces Mr. B. Taquet

From Iran, Mr. H. Masoud replaces Mr. C. Fouladi

The Chairman welcomed the new members. Still pending a confirmation is needed about the continuation of Carlos Matias Ramos, from Portugal, after his retirement from LNEC.

A list of attendance was circulated and email addresses updated or confirmed. The compiled information is attached to this report.

Review of Comments on the Spillway Bulletin received from National Committees.

In November of 2016 the Chairman has sent the Final Draft of the Bulletin to the Central Office of ICOLD requesting submittal to the Board for approval, translation into French language and subsequent publishing. The Central Office sent the Final Draft to ICOLD Member Countries for comments, requesting these comments to be sent directly to the Chairman.

Comments have been received from the following National Committees: France, Switzerland, The Netherlands and the United Kingdom.

Some of the comments dealt with general aspects of the document, correcting orthographic errors and spelling mistakes, suggesting enlarging the scope of the technical issues treated in the bulletin and requesting the inclusion in the acknowledgements, of names of some non-members contributors to the various chapters, which had not been mentioned due to lack of information. All these comments are going to be taken into consideration in the final revision of the bulletin.

Comments related to the text of chapters and to the technical contents of the bulletin were as follows:

- Chapter 1 – no comments received
- Chapter 2 – comments received, mainly from the French National Committee, were presented by Machado, the chapter co-ordinator and discussed with members. The members agreed that the distributed text should be kept with no changes with exception of the addition of data tables that were not included (by mistake) in the distributed version.
- Chapter 3 – comments received were presented by Schleiss, the chapter co-ordinator, who revised the draft text taking into account comments received from the Swiss and French national committees. Members agreed with revised text.
- Chapter 4 – minor comments, received from the Swiss National Committee, were related to technical notation and had no impact on the technical text proper; Granados the chapter co-ordinator presented the observations received.
- Chapter 5 – comments were received from the Swiss National Committee; however as the chapter co-ordinator D.van Wyk has retired and was not present, the comments received will be conveyed to him by H-J. Wright, the new So. African representative member, and his decision on accepting or not the comments will be communicated to the membership in late July.
- Chapter 6 – comments were received from the Swiss National Committee; however as the chapter co-ordinator B. Taquet has retired and was not present the comments received will be conveyed to him by F. Laugier, the new French representative member, and his decision on accepting or not the comments will be communicated to the membership in late July
- Chapter 7 – comments received were presented by Shakirov, who has been acting as the chapter co-ordinator since the absence of Mrs. Guo; after discussions with members, the conclusion was that the distributed text should be kept with no changes.
- Chapter 8 – comments received were presented by Kjellesvig, the chapter co-ordinator, assisted by Shakirov, who contributed to the chapter preparation; after discussions with members, the conclusion was that the distributed text should be kept with no changes.
- Chapter 9 – comments received were presented by Lindell, the chapter co-ordinator, who revised the draft text taking into account some of the comments received from the Swiss National Committee. Members agreed with revised text.
- Chapter 10 – no comments received.

It was agreed that the Chairman will make a final revision of the bulletin with the modifications decided during the meeting (including those relative to chapters 5 and 6 that will be send to him prior to the end of July), and re-submit to the Central Office of ICOLD for French translation and publication.

Bulletin on Sediment and Debris Flow.

As known, an agreement was made between our Committee C and Committee S – Flood Evaluation and Dam Safety - to join efforts to produce a new bulletin combining work of both committees centred in debris and sedimentation controlled by spillways. The corresponding chapter in our bulletin was reassigned to the new bulletin, and from the Hydraulics for Dams Committee, Mr. Robert Wark who wrote the chapter is coordinating the new work. During the meeting Wark presented a series of slides summarising the contents of the bulletin.

The contents of the bulletin are the following:

- Introduction
- Impacts of Floating Flood Debris on Dams
- Quantification of Floating Flood Debris
- Mitigating Impacts of Floating Debris
- Reservoir Operation for Sediment Control

This bulletin is completed in draft form and is ready to be submitted to the Central Office for approval. The Chairman discussed with Wark the procedures to be followed for this issue.

Indication by the Chairman of proposed organisation of the Committee for the new phase starting in 2018.

The Chairman informed the members that with the conclusion of the preparation of the two bulletins the ICOLD Committee C – Hydraulics for Dams will start a new phase of work in 2018 in which new subjects of work will be defined and a new Chairman will conduct the Committee.

He informed the members that he is indicating Prof. Dr. Anton Schleiss for the chairmanship of this new phase. Prof. Schleiss is well known to all members by his outstanding professional and academic records in Hydraulic Engineering and has been an active member of the Hydraulics for Dams Committee since 2006 and had a very important contribution to the Spillway Bulletin authoring chapter 3 and providing comments and orientation in other parts of the bulletin. The Chairman asked the Committee Members to approve this indication, which unanimously they did.

Dr. Schleiss acknowledged the indication and mentioned that the themes for discussion in the new phase of the Committee will be the object of a proposed Terms of Reference to be submitted to the ICOLD Board and that suggestions by members would be welcome.

Conclusion

The Chairman observed that the work of preparing a bulletin on Spillway Innovations reached its end producing a high quality text with very relevant information for designers and owners of dams and hydraulic projects. He also observed that the work involved the participation of all Committee Members who dedicated appreciable time and effort to produce the document. He also mentioned that the work developed as planned reaching its goal strictly within the 6-year assigned time.

He expressed this appreciation and thanks for the Committee membership and his best wishes for continued personal and professional success for all Members.



James Yang

Älvkarleby

2017-10-10