



# SANCOLD ANNUAL REPORT 2017

## OVERVIEW 2017

The year 2017 was devoted to the achievement of objectives set by SANCOLD and particularly to the extension of various local initiatives. No separate SANCOLD Annual Event was organised during the year because of ICOLD 2016. Attention was paid to certain organisational aspects such as the procurement of financial software and the upgrading of the website.

### 1. SANCOLD MANAGEMENT COMMITTEE

Elections were held at the end of 2016 for four vacant positions. Unfortunately bulk e-mail problems were experienced with the electoral process with the result that only four nominations were received for the vacant positions. It was thus not necessary to resort to a voting process and the four persons were duly appointed on the Management Committee as denoted by the 2019 Term of Office.

Dr Quentin Shaw was elected as the new Chairperson as Past Chairperson Danie Badenhorst had had two consecutive terms and was required to retire in terms of the SANCOLD Constitution. Mr Louis Hattingh was elected SANCOLD Vice-Chairperson and Mr Henry-John Wright appointed as Webmaster. The other portfolios remained as in the previous year.

### SANCOLD Management Committee 2017

No	Name	Organisation	Term * of Office	Remarks
1	B Mwaka	DWS (P&I)	2017	Reserved position. Re-appointed by DWS.
2	X Mdletshe*	DWS (NWRI)	2019	Reserved position Appointed from 2017
3	E Vorster	SAICE	2016	Reserved position. Alternate T Tente
4	F van Vuuren	HESA	2018	Reserved position HESA re-nominated
5	G Basson	U of Stellenbosch	2018	Past VP of ICOLD to serve for 3 yrs after end of VP term
6	D Badenhorst	AECOM	2017	To serve in 2017 as past Chairperson
7	J Lombaard*	AECOM	2019	Elected in 2016 for a 3-year term <35 years
8	Q Shaw*	ARQ	2019	Elected in 2016 for a 3-year term. <b>Chairperson</b>
9	D van der Merwe	AECOM	2019	Elected in 2016 for a 3-year term
10	Ms M Blaeser	ARQ	2019	Elected in 2016 for a 3-year term
11	L Hattingh*	Hattingh Anderson Assoc	2017	Elected in 2013 for a 3-year term. <b>Vice Chair</b>
12	Ms M Trumpelmann	Aurecon	2017	Elected in 2013 for a 3-year term <35 years
13	M Moshodi	DWS	2016	Chair of SANCOLD YEF- <i>ex officio</i>
14	D Cameron-Ellis*	ARQ	2018	Elected in 2014 for a 3-year term. <b>Treasurer</b>
15	H-J Wright*	ARQ	2018	Elected in 2014 for a 3-year term. <b>Webmaster</b>
16	G De Jager	AECOM	2017	Co-opted for instream flow requirements
17	D Grant-Stuart	Knight Piesold	2017	Co-opted for tailings dams
18	CPR Roberts*	-	Contract	Externally appointed <b>Secretary</b> .

\* The term of office is defined from the year following the November elections in the previous year. DWA (Department of Water Affairs) was changed to DWS (Department of Water and Sanitation) during May 2014.

## 2. OBJECTIVES FOR 2017

The Management Committee set the following objectives for 2017 at its first meeting in February 2017:

### INTERNATIONAL ACTIVITIES

1. Meaningful participation in ICOLD activities.
2. Participate in the ICOLD Annual Meeting in 2017.
3. Greater involvement in the region and African Regional Club.
4. Strengthen the functioning of the SANCOLD working groups which relate to our representation on ICOLD Committees.

### LOCAL ACTIVITIES

5. Attract additional corporate and individual members.
6. Strengthen the relationship with the DWS Management and Ministry.
7. Advertise a new scholarship for 2017.
8. Preparations for the development of a guideline on floods.
9. Preparations for the development of a guideline on risk analysis.
10. Development on a guideline for the application of geofabrics in embankment dams.
11. Preparations for the development of a publication on *Your Dam* which will focus on the operation and maintenance of small dam and owners of such dams.
12. Preparation of a publication on Ecological Water Reserve;
13. Preparation of a publication on "*Your Tailings Dam*";
14. Preparation of a Guideline on Blasting Practices.
15. Improvement in the dissemination of SANCOLD and ICOLD publications.
16. Continued interaction with members particularly via the regular SANCOLD News and the website.
17. Appoint a new Webmaster, update the website and keep it current and promote the sale of advertisements on the website.
18. Targeted marketing of SANCOLD.
19. Promotion of the SANCOLD Young Engineers' Forum;
20. Identify and prepare for SANCOLD 2017 Annual Event.
21. Organise short half-day workshops and/or courses.
22. Implement accounting software for improved financial matters.

The extent to which these objectives were accomplished is discussed in the paragraphs below.

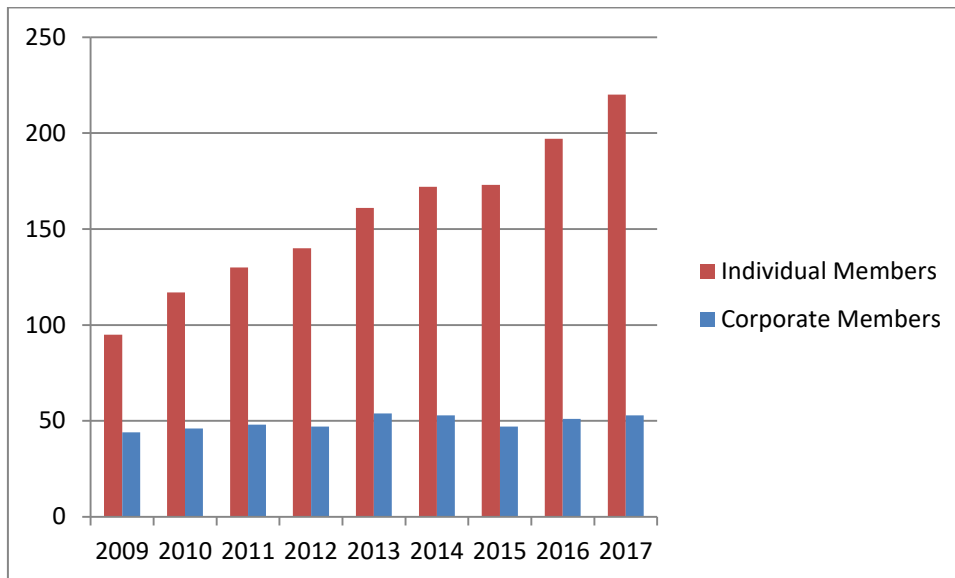
## 3. MEMBERSHIP MATTERS

Individual membership increased significantly during the year but there were losses due to non-payment while Corporate Membership increased slightly as follows:

Membership Group	2010	2011	2012	2013	2014	2015	2016	2017
Corporate	46	47	46	52	53	47	51	53
Individual	112	126	141	152	172	173	197	220

Growth and interest in SANCOLD activities by Individuals are noteworthy. The Corporate Membership has remained essentially static.

The SANCOLD Management Committee has been considering some additional membership classes and these will be announced at the forthcoming AGM. A SANCOLD Constitutional change will be required to accommodate the proposed changes.



**Graphical presentation of membership numbers over time**

Members are requested to encourage colleagues and organisations to join SANCOLD.

A problem was experienced during the year with e-mail communications with members as it appears as if some members are not receiving the SANCOLD e-mails and notices. Members are requested to ensure that their internet service providers and their systems do not classify e-mails from SANCOLD as “suspicious” or junk mail.

#### **4. SANCOLD LOCAL ACTIVITIES**

SANCOLD focussed on a number of local matters during the year, the foremost being:

- A SANCOLD Technical workshop was held in conjunction with the 2016 AGM. Three presentations were made by local experts. The event was attended by 51 persons.
- A Workshop on Dambreak Analysis was on 7 February 2017 was organised in conjunction with the University of Pretoria. The Workshop was held in Cape Town and attended by 30 persons.
- Formation of SANCOLD Working Groups related to ICOLD Committees on which SANCOLD has representation;
- Relevant information sent to members and African National Committees via direct e-mailing;
- Publication of SANCOLD information in local and international journals.
- SANCOLD is moving towards a policy similar to that of ICOLD in respect of free downloading of its publications for members;
- Revamping the SANCOLD website by the newly appointed Webmaster;
- Preparations for the SANCOLD 2017 Annual Conference and Annual Meeting.
- Limited progress with the preparations for the financing of the National Flood Studies Programme. A Management Committee representing key role players has been formed.
- SANCOLD Guideline on Risk Analysis: SANCOLD wishes to update the previous work on risk analysis approach towards the safety of dams. SANCOLD Member Louis Hattingh is leading the initiative. Implementation somewhat retarded due to activities associated with ICOLD 2016;
- SANCOLD Publication on *Your Dam*: The Dam Safety Office (DSO) has a 1990 publication entitled *Your Dam*. This publication has several frequently asked questions which a small dam owner would typically ask. Kelvin Legge, is leading the initiative. Limited progress made during the year due to other commitments;
- SANCOLD Guideline on the Application of Geotextiles in Embankment Dams: SANCOLD produced a document on Geotextiles for Embankment Dams and

ICOLD has adopted it as a Bulletin. The draft bulletin which includes the inputs on geofabrics by Kelvin Legge will be considered by the ICOLD Committee at its meeting in Prague in 2017;

- Guideline on Ecological Water Reserve: A Workshop on the topic was organised during ICOLD 2016 which provided useful inputs to finalise the publication. Gerald de Jager is the Convenor of the initiative;
- The various SANCOLD Working Groups for SANCOLD Guidelines and Publications are given below.

### **SANCOLD Working Groups for SANCOLD Guidelines and Publications**

<b>Guideline/Publication</b>	<b>Convenor</b>	<b>SANCOLD Working Group</b>
Guideline on Floods	Jeff Smithers	Andre' Gorgens Danie van der Spuy David Cameron-Ellis
Guideline on Risk Analysis	Louis Hattingh	Ivor Segers Chris Oosthuizen Andre' Bester Pilate Moyo Moses Motaung Gerald de Jager Louis Kirsten
Geotextiles for Dams	Kelvin Legge	Prof Fannin Eduard Vorster +Local experts
<i>Your Dam</i> Publication	Kelvin Legge	Leo van den Berg Jan Nortje
<i>Your Tailings Dam</i>	Danie Brink	
Guideline on Ecological Water Reserve	Gerald de Jager	Ms Hermien Pieterse Dr Patsy Scherman
Guideline on Blasting Practices	David Cameron-Ellis	Claude Cunningham

#### **5. SANCOLD YOUNG ENGINEER'S FORUM**

A Young Engineers' Forum in ICOLD was formed in Lucerne in 2012. SANCOLD agreed that SANCOLD should form a similar Forum in South Africa and once operational would liaise with the ICOLD Forum. Mr Motebele Moshodi of DWS is the current Chairperson and also served on the ICOLD Forum: his term of office on the ICOLD YEF has now come to an end. Currently we have about 50 members of the Forum. The rationalisation of the YEF and its governance is being refined and an election of office-bearers will be held soon. Ms Jaretha Lombaard will be the Convenor of the YEF/YPF activities during the SANCOLD Annual Conference 2017 and several new initiatives are on the table.

#### **6. INTERNATIONAL ACTIVITIES**

The other main activity of SANCOLD relates to international matters. SANCOLD represents South Africa on the International Commission on Large Dams (ICOLD). We have representation on 18 of ICOLD's 25 Technical Committees. These Committees are a key activity of ICOLD and require much dedicated effort on the part of the participants. South African Working Groups have been formed for most of these Committees and the names of the current participants are reflected in the tabulation below.

No	Committee Name	Term	SA Representative	SANCOLD Working Group
C	Committee on Hydraulics	2016-2019	Henry-John Wright	D Cameron-Ellis
D	Committee on Concrete Dams	2015-2018	Q Shaw	J Kroon H-J Wright A Botha D Ochan Werner Delpont
E	Committee on Embankment Dams	2017-2020	D Badenhorst (Vice Chair)	H Elges Tyler Bains Johan Beukes K Legge (Geofabrics) Jan Brink Werner Delpont
F	Committee on Engineering Activities Associated with the Planning Process for Water Resources Projects	2014-2017	L Mabuda	Menard Mugumo Jannie van der Mescht
H	Committee on Dam Safety	2015-2018	I Segers	Dr C Oosthuizen L Hattingh L van den Berg Bongani Sibanda Alan Kockott Bandula Kendaragama
I	Committee on Public Safety Around Dams <sup>3</sup>	2016-2019	Ms Zandile Mathe	Vacant-SANCOLD Members please apply to the Secretary
J	Committee on Sedimentation of Reservoirs	2017-2020	Prof G Basson has requested that SA become a member	
K	Committee on integrated operation of hydropower stations and reservoirs	2015-2019	L Furstenburg	Janus Basson John Sawyer
L	Committee on Tailings Dams	2014-2017	Duncan Grant-Stuart	Andrew Copeland John Wates Steve Dorman Bone Makgekenene Danie Brink
M	Committee on Operation, Maintenance and Rehabilitation of Dams	2015-2018 <sup>1</sup>	Vacant	L Molo Rep of Umgeni Water
O	Committee on the Register of Dams & Documentation	2017-2020	Mr Bertrand Collet	Leo vd Berg from the Dam Safety Office (DSO).
P	Committee on Cemented Materials Dams	2017-2020	David Cameron-Ellis	Vacant-SANCOLD Members please apply to the Secretary
Q	Committee on Dam Surveillance	2015-2018	L Hattingh Chairman	A Botha DJ Hagen
R	Committee on Multi-purpose Dams and Reservoirs	2013-2016	Dr Beason Mwaka	Dr Nezar Eldidy Vacant-SANCOLD Members please apply to the Secretary
T	Ad hoc Committee on prospective and new challenges for dams and reservoir in the 21st century	2017-2020	H Anderson <sup>2</sup>	
V	Committee for Hydromechanical Equipment	2016-2019	Mr Juandre' Theron <sup>2</sup>	Vacant
W	Ad hoc Committee on the Selection of Dam Type	2015-2018	A Chemaly B Havenga	Linked to Embankment Dam Working Group
Y	Committee on Climate Change	2014-2017	G de Jager	

Representation cannot be changed in the case of an **ad hoc committee**. SANCOLD Working Group members make inputs into the ICOLD Committee via the SANCOLD Representative.

1. Reappointed Committee to complete the work of the previous Committee.
2. Corresponding Member

ICOLD changed its policy in regard to the sale of their publications (Bulletins) and the Executive Meeting in 2010 decided to make them free to members in electronic form in order to increase dissemination of the information via the National Committees. Draft Bulletins are made available at an earlier stage to enhance distribution. We have received the access code for free downloading and members should approach the SANCOLD Secretary for the access code. This will enable you to register your own direct access to the ICOLD website. Several SANCOLD members have made use of this facility and other members are encouraged to make use of this excellent knowledge-base.

#### **8. AFRICAN REGIONAL CLUB**

The African Regional Club meeting in Prague was organised by the ICOLD Vice President for Africa Dr Ahmed Chraibi of Morocco.

#### **9. FINANCIAL MATTERS**

SANCOLD's finances are sound for the current level of activity. The audit for the current year is much more extensive than past years because of ICOLD 2016 and has still to be finalised. Members will be supplied with feedback once this has been completed. A modest surplus has however been obtained. This surplus will be used for growing dam engineering in South Africa.

#### **10. CONCLUSION**

- This year has been a very active one and we estimate that so far we have reached over 90% of the set targets.
- SANCOLD Individual membership is now over 200.
- 2017 was devoted to effective planning for even greater local involvement to reach goals.

**Chairperson: SANCOLD  
November 2017**