



SANCOLD ANNUAL REPORT 2019

OVERVIEW 2019

The year 2019 was devoted to the achievement of objectives set by SANCOLD and particularly to the extension of various local initiatives. Attention was also paid to certain organisational aspects such as the procurement of financial software and the updating of the website.

1. SANCOLD MANAGEMENT COMMITTEE

Elections were held at the end of 2018 for three vacant positions. Four candidates were nominated of which three were under 35.

Messrs Henry-John Wright, Vicci Schoeman and Guy Robertson were duly elected. Mr Henry-John Wright was re-appointed as Webmaster. Mr David Cameron-Ellis was appointed (external) Treasurer for 2019. The other portfolios remained as in the previous year. Four co-options were made as indicated below

SANCOLD MANAGEMENT COMMITTEE: 2019

No	Name	Organisation	Term * of Office	Remarks
1	B Mwaka	DWS (P&I)	2020	Reserved position. Renewed from 2018
2	X Mdletshe	DWS (NWRI)	2019	Reserved position Appointed from 2017
3	M van Dijk	SAICE	2019	Reserved position. Alternate T Hloele
4		USAf	2021	Reserved position USAf to nominate
5	D Cameron-Ellis*	ARQ	2019	Externally appointed Treasurer 2019
6	J Lombaard*	Chairperson YPF AECOM	2019	Elected in 2016 for a 3-year term <35 years
7	Q Shaw*	Chairperson ARQ	2019	Elected in 2016 for a 3-year term. Chairperson
8	D van der Merwe	HEES	2019	Elected in 2016 for a 3-year term
9	Ms M Blaeser	ARQ	2019	Elected in 2016 for a 3-year term
10	L Hattingh*	Vice-Chairperson Hattingh Anderson Assoc	2020	Elected in 2017 for a 3-year term.
11	R Greyling	Knight Piesold	2020	Elected in 2017 for a 3-year term <35 years
12	G Robertson*	JG Afrika	2021	Elected in 2018 for a 3-year term <35 years
13	V Schoeman*	Knight Piesold	2021	Elected in 2018 for a 3-year term
14	H-J Wright*	ARQ	2021	Elected in 2018 for a 3-year term. Webmaster
15	G De Jager	AECOM	2019	Co-opted for instream flow requirements
16	D Grant-Stuart	Knight Piesold	2019	Co-opted for tailings dams
17	W Ramokopa*	DWS	2019	Co-opted for APP training/legislation change
18	D Badenhorst	AECOM	2019	Co-opted for Institutional knowledge
19	P D Pyke*	Contract -	2020	Externally appointed Secretary 2018
20				

Notes:

- The term of office is defined from the year following the November elections in the previous year.
- Exco Members indicated thus. (*)

2. OBJECTIVES FOR 2019

The Management Committee set the following objectives for 2019 at its first meeting in February 2019:

INTERNATIONAL ACTIVITIES

1. Meaningful participation in ICOLD activities.
2. Participate in the ICOLD Annual Meeting in 2019.
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 2019.
8. Preparations for the development of a guideline on floods - the National Flood Studies Programme (NFSP), to be prioritised.
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. 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. 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 Person's Forum;
20. Identify and prepare for SANCOLD 2019 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	2012	2013	2014	2015	2016	2017	2018	2019
Corporate	46	52	53	47	51	53	54	52
Individual	141	152	172	173	197	220	234	248

Growth and interest in SANCOLD activities by Individuals are noteworthy. The Corporate Membership growth has dropped due to mergers and resignations.

The SANCOLD Management Committee implemented additional membership classes and the SANCOLD Constitutional was changed to accommodate these changes.

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

Some 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 Dam Break Analysis Workshop was held in Pietermaritzburg on 22 March 2019 in conjunction with the University of Pretoria. Although this was held at short notice, there were 20 participants.
- A course Introduction to Water Resource Planning was held on 18 and 19 June 2019 which was followed by a course, Introduction to the Water Resource Yield Model (WRYM) on 20 and 21 June 2019.
- SANCOLD provided financial support of R75 000 each in 2019 to five post graduate students whose research links into furthering work for the National Flood Studies Programme. The research of two of these students continues and they will receive similar support in 2020, consequently there will be no Scholarship award in 2020.
- 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 has initiated contact with the new Minister for DWS and will be following this up once she has had an opportunity to settle into her new portfolio.
- SANCOLD is concerned about issues around APP Training/Legislation change. This remains a priority but SANCOLD still needs to develop a realistic and workable strategy to take this forward.
- Expansion 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;
- Preparations for the SANCOLD 2019 Annual Conference and Annual Meeting.
- SANCOLD Publication on *Your Dam*: The updating of the publication *Your Dam (1990)* by the Dam Safety Office (DSO) is considered important. 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;
- Guideline on Ecological Water Reserve: A research project has been initiated on this topic and SANCOLD hopes to build on this to produce the guideline. 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

Guideline/Publication	Convenor	SANCOLD Working Group
Guideline on Floods	Vacant	Andre' Gorgens Danie van der Spuy David Cameron-Ellis
Guideline on Risk Analysis	Louis Hattingh	Ivor Segers Pilate Moyo Moses Motaung

		Gerald de Jager Louis Kirsten
Geotextiles for Dams	Kelvin Legge Danie Badenhorst	Prof Fannin +Local experts
<i>Your Dam</i> Publication	Kelvin Legge	
<i>Your Tailings Dam</i>	Duncan Grant-Stuart	
Guideline on Ecological Water Reserve	Gerald de Jager	Ms Hermien Oberholzer Dr Patsy Scherman
Guideline on Blasting Practices	David Cameron-Ellis	Claude Cunningham Gerrie van Jaarsveld
Seismic	Anglo American drives initiative	David Cameron- Ellis Graham Roberts
Pollution Control Dams	Kelvin Legge	
Freeboard	TBC	Louis Hattingh David Cameron-Ellis Henry-John Wright Wally Ramokopa

5. SANCOLD YOUNG PERSON'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. Ms Jaretha Lombaard of AECOM is the current Chairperson. Currently we have over 50 members of the Forum which has been quite active. There will be a separate report on it's activities.

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 21 of ICOLD's 27 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.

SA Representatives on ICOLD Committees and SANCOLD Working Groups: 2019

No	Committee Name	Term	SA Representative	SANCOLD Working Group
A	Committee on Computational Aspects of Analysis and Design of Dams.	2017-2020	G Roberts	RSA membership approved in Vienna
C	Committee on Hydraulics	2019-2021	H-J Wright	D Cameron-Ellis
D	Committee on Concrete Dams	2018-2021	Q Shaw (Vice Chairman)	J Kroon H-J Wright A Botha D Ochan
E	Committee on Embankment Dams	2017-2020	D Badenhorst (Vice Chairman)	H Elges K Legge (Geofabrics) C Fraser C Fynn
F	Committee on Engineering Activities Associated with the Planning Process for Water Resources Projects	2014-2017	L Mabuda	M Mugumo J van der Mescht
H	Committee on Dam Safety	2018-2021	I Segers	L Hattingh

				L van den Berg B Sibanda A Kockott B Kendaragama
I	Committee on Public Safety Around Dams ³	2016-2019	Vacant	SANCOLD Members please apply to the Secretary
J	Committee on Sedimentation of Reservoirs	2017-2020	Prof G Basson	Approved in Vienna
K	Committee on integrated operation of hydropower stations and reservoirs	2015-2019	L Furstenburg	J Basson J Sawyer
L	Committee on Tailings Dams	2017-2020	D Grant-Stuart	A Copeland J Wates S Dorman B Makgekgenene D Brink
M	Committee on Operation, Maintenance and Rehabilitation of Dams	2017-2020	P Pyke (Vice Chairman)	L Moloi Rep of Umgeni Water
O	Committee on the Register of Dams & Documentation	2017-2020	B Collet	W Ramokopa from the Dam Safety Office (DSO).
P	Committee on Cemented Materials Dams	2017-2020	D Cameron-Ellis	Vacant-SANCOLD Members please apply to the Secretary
Q	Committee on Dam Surveillance	2017-2020	L Hattingh (Chairman)	A Botha DJ Hagen
S	Committee on Flood Evaluation and Dam Safety	2015-2020	J Smithers	
T	Ad hoc Committee on prospective and new challenges for dams and reservoir in the 21st century	2017-2020	H Anderson ¹	
U	Committee on Dams and River Basin Management	2018-2021	G de Jager	Approved in Ottawa
V	Committee for Hydromechanical Equipment	2016-2019	R van Wyk	Approved in Ottawa Dr M Ellis
Y	Committee on Climate Change	2017-2021	G de Jager	Corresponding member
Z	Committee on Capacity Building and Dams (<i>Ad Hoc</i> Committee)	2017-2021	V Schoeman	Approved in Ottawa
RE	Committee on Resettlement due to Reservoirs	2018-2021	K Naidoo	Approved in Ottawa

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.

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 Ottawa was organised by the ICOLD Vice President for Africa Mr Michael Abebe of Ethiopia. Much interest has been shown in use in Africa of the Water Resource Planning and Yield Models as developed in South Africa.

9. FINANCIAL MATTERS

SANCOLD's finances are sound for the current level of activity. The audit for the current year is being 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 probably reached over 80% of the set targets.
- SANCOLD Individual membership is showing healthy growth specially among younger members and is now almost 250 members.
- 2019 was devoted to effective planning for even greater local involvement to reach goals.

Quentin Shaw
Chairperson: SANCOLD
November 2019