



# SANCOLD ANNUAL REPORT 2021

## OVERVIEW 2021

The year 2021 was severely impacted by the Covid 19 pandemic and accompanying lockdowns. The SANCOLD 2020 conference was cancelled and activities limited to virtual events. A major effort was placed on cleaning up the membership database which will result in the membership of a significant number of members in arrears having their membership terminated.

### 1. SANCOLD MANAGEMENT COMMITTEE

Elections were held at the end of 2020 for two vacant positions. Four candidates were nominated of which two were under 35.

Robert Greyling and Janice Zhang were duly elected. Robert Greyling was elected as Vice-Chairperson of SANCOLD. Louiza van Vuuren was appointed as YPF Chair but has subsequently resigned for personal reasons. A member will be co-opted to serve the remaining 12 months of her term of office. The other portfolios remained as in the previous year. Four co-options were made as indicated below

### SANCOLD MANAGEMENT COMMITTEE: 2021

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	S Kelefetswe	SAICE	2023	Reserved position. Alternate M van Dijk appointed 2021
4	M van Dijk	USAf	2023	Reserved position. Nominated 2020
5	D Cameron-Ellis*	ARQ	2022	Elected in 2019 for 3-year term <b>Treasurer</b>
6	Ms L van Vuuren* (Resigned)	Gibb	2022	Elected in 2019 for a 3-year term <35 years <b>YPF Chairperson</b>
7	Q Shaw*	ARQ	2022	Elected in 2019 for a 3-year term. <b>Chairperson</b>
8	Ms M Blaeser	ARQ	2022	Elected in 2019 for a 3-year term
9	R Greyling*	Knight Piesold	2023	Elected in 2020 for a 3-year term. <b>Vice Chairperson</b>
10	Ms J Zhang	Knight Piesold	2023	Elected in 2020 for a 3-year term <35 years
11	G Robertson	JG Afrika	2021	Elected in 2018 for a 3-year term <35 years
12	V Schoeman	Knight Piesold	2021	Elected in 2018 for a 3-year term
13	H-J Wright*	ARQ	2021	Elected in 2018 for a 3-year term. <b>Webmaster</b>
14	G De Jager	AECOM	2021	Co-opted for instream flow requirements
15	D Grant-Stuart	Knight Piesold	2021	Co-opted for tailings dams
16	W Ramokopa*	DWS	2021	Co-opted for APP training/legislation change
17	D Badenhorst	AECOM	2021	Co-opted for Institutional knowledge
18	P D Pyke*	Contract -	2021	Externally appointed <b>Secretary</b> 2018
19				
20				

Notes:

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

## 2. OBJECTIVES FOR 2021

With Covid 19 restrictions applying, most SANCOLD and ICOLD activities were severely impacted and many objectives were not achieved.

## 3. MEMBERSHIP MATTERS

Individual membership increased significantly during the year but was offset due to terminations as a result of non-payment by both Individual and Corporate Membership.

<b>Membership Group</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
Corporate	53	47	51	53	54	52	52	<b>40</b>
Individual	172	173	197	220	234	248	227	<b>191</b>

The Corporate Membership growth has dropped due to mergers, resignations and terminations.

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 Safety Surveillance Course was held at Driekoppies Dam on 11-13 May. Although this was held at short notice, there were 12 participants. Due to wide interest, it is intended to repeat the course later.
- On 2 June the YPF held a webinar entitled “The Latest Developments in Concrete Engineering” presented by Dr Quentin Shaw.
- Another later YPF webinar was postponed due to the ill health of the presenter.
- SANCOLD provided financial support of R50 000 in 2021 to each of two post graduate students whose research links into furthering SANCOLD work.
- SANCOLD remains 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.
- Updating the SANCOLD website;
- Preparations for the SANCOLD 2021 Annual Conference and Annual Meeting.

- The Guideline on Ecological Water Reserve brochure is being finalised for 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	Vacant	Vicci Schoeman 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>Our 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
Position Paper on Freeboard	Robert Greyling	David Cameron-Ellis Michelle Blaeser
Position Paper on EPP	Cameron Fraser	Danie Badenhorst Guy Robertson Louise van Vuuren Jaretha Lombaard Bandula Kendaragama

\*Position papers required / workshops required /

#### **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. Guy Robertson of JGAfrika is the current Chairperson. Currently we have over 50 members of the Forum which has been quite active.

## 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: 2021

No	Committee Name	Term	SA Representative	SANCOLD Working Group
A	Committee on Computational Aspects of Analysis and Design of Dams.	2017-2020	G Roberts	
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	2019-2022	L Mabuda	M Mugumo J van der Mescht
H	Committee on Dam Safety	2018-2021	C Mahlabela	L Hattingh L van den Berg B Sibanda A Kockott B Kendaragama
I	Committee on Public Safety Around Dams <sup>3</sup>	2019-2022	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	2020-2023	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 Moloji Rep of Umgeni Water
O	Committee on the Register of Dams & Documentation	2017-2020	W Ramokopa	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	2019-2022	L Hattingh (Chairman)	A Botha DJ Hagen
S	Committee on Flood Evaluation and Dam Safety	2019-2022	J Smithers	
T	Ad hoc Committee on prospective and new challenges for dams and reservoir in the 21st century	2017-2020	H Anderson <sup>1</sup>	
U	Committee on Dams and River Basin Management	2018-2021	G de Jager	
V	Committee for Hydromechanical Equipment	2019-2022	R van Wyk	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	
RE	Committee on Resettlement due to Reservoirs	2018-2021	K Naidoo	

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.

The ICOLD policy of making copies of their publications (Bulletins) free to members in electronic format in order to increase dissemination of the information via the National Committees, continues. Members can receive the access code for free downloading of publications from the SANCOLD Secretary. 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 has not been active with limited virtual meetings of ICOLD

## 9. FINANCIAL MATTERS

SANCOLD's finances are adequate for the current level of activity. Finances have been adversely affected by the cancellation of SANCOLD 2020 but it is hoped that 2021 can show a modest surplus. Any surplus will be used for growing dam engineering in South Africa.

## 10. CONCLUSION

- This year has been severely impacted by Covid 19 restrictions with few activities taking place.
- SANCOLD Individual membership is showing healthy growth specially among younger members but both Individual and Corporate membership have dropped as a result of termination due to non-payment.

**Quentin Shaw**  
**Chairperson: SANCOLD**  
**November 2021**