



SANCOLD

# SANCOLD ANNUAL REPORT 2013

The year 2013 was devoted to the achievement of objectives set by SANCOLD and to the extension of various local and international initiatives. The 2013 Management Committee structure is given below.

## SANCOLD Management Committee 2013

No	Name	Organisation	Term * of Office	Remarks
1	B Mwaka	DWA (P&R)	2013	Reserved position.
2	W vd Westhuizen	DWA (NWRI)	2014	Reserved position
3	E Vorster	SAICE	2015	Reserved position. Alternate T Tente
4	G Basson	HESA	2014	Reserved position HESA re-nominated
5	I Segers	DWA	2013	Elected in 2010 for a 3-year term <35 years
6	D van Wyk	Aurecon	2013	Elected in 2010 for a 3-year term
7	K Legge	DWA	2014	Elected in 2011 for a 3-year term
8	D Cameron-Ellis	ARQ	2014	Elected in 2011 for a 3-year term
9	D Badenhorst	AECOM	2015	Elected in 2012 for a 3-year term
10	A Bester	Goba	2015	Elected in 2012 for a 3-year term
11	Q Shaw	ARQ	2015	Elected in 2012 for a 3-year term
12	Ms M Blaeser	ARQ	2015	Elected in 2012 for a 3-year term <35 years
13	P Pyke	DWA	2013	Co-opted for 2013 (financial)
14	D Grant-Stuart	Knight Piésold	2013	Co-opted for 2013 (Tailings Dams)
15	CPR Roberts	-	Contract	Externally appointed Secretary.

Notes:

\* The term of office is defined from the year following the November elections in the previous year.

The SANCOLD Management Committee decided in terms of the Constitution that the 2013 elections will again be conducted via an electronic nominating and voting process as it offers the wider membership an opportunity to participate. Members are encouraged to participate in this election. Two positions are being contested. Requests for nominations were sent out in early October and the electoral process should be completed by the end of November 2013.

The Management Committee set the following objectives for 2013:

1. Meaningful participation in ICOLD activities and the Annual Meeting 2013.
2. Strengthen the functioning of the SANCOLD Working Groups
3. Attract additional corporate and individual members.
4. SANCOLD Scholarship: Regular contact with the scholarship holder and advertising of a new scholarship for 2014.
5. Preparations for the development of a guideline on floods.
6. Preparations for the development of a guideline on risk analysis.
7. Development on a guideline for the application of geofabrics in embankment dams.
8. 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.
9. Improvement in the dissemination and sales of SANCOLD and ICOLD publications.
10. Continued interaction with members particularly via the regular SANCOLD News and the website.
11. Promote the sale of advertisements on the website.

12. Preparations for the 2013 SANCOLD Annual Meeting which will be held in conjunction with a course or symposium related to dams as well as a visit to a dam. Inclusion of environmental expertise and “opponents of dams” in the programme.
13. Promote the hosting of an ICOLD Annual Meeting in 2016.
14. Promote sponsorships and link to item 13.
15. Targeted marketing of SANCOLD.
16. Greater involvement in the region and African Regional Club;
17. Promotion of the SA Young Engineers’ Forum;
18. Resolve issue of dam courses by others;
19. Publication on SA Dams for ICOLD 2016 if hosting bid is won.

Membership increased significantly during the year as follows:

<b>Membership Group</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
Corporate	46	47	46	<b>52</b>
Individual	112	126	141	<b>152</b>

Members are requested to encourage colleagues and organisations to join SANCOLD. We hope that the forthcoming hosting of the ICOLD Annual Meeting in 2016 in South Africa will be an incentive for organisations and individuals to join SANCOLD.

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

- Formation of SANCOLD Working Groups related to ICOLD Committees on which SANCOLD has representation;
- Relevant information to members and African National Committees via SANCOLD News and direct e-mailing;
- Publication of SANCOLD information in local and international journals.
- Calling for applications for a post-graduate scholarship in dam engineering for 2014 and contact with the current scholarship holder. Feedback to the membership given in SANCOLD News;
- Revamping the SANCOLD website. Separate pages for ICOLD 2016 and the SA Young Engineers’ Forum have been added.
- The SANCOLD Management Committee has just amended the SANCOLD Constitution to create a position on the Management Committee for the Chairperson of the SANCOLD Young Engineers’ Forum.
- Organisation of the 2013 SANCOLD Annual Event. We have a record attendance of over 230 persons, including several delegates from other countries;
- The membership of SANCOLD has in recent years been concerned about the spate of commercially orientated courses/conferences relating to dams and the effectiveness of the SAICE/ECSA accreditation processes for CPD points. Agreement has been received from the SAICE CEO that SANCOLD will be consulted via their Water Engineering Division to make inputs when considering such accreditation. Correspondence has been sent to ECSA regarding the accreditation process and for the involvement of SANCOLD.
- Three SANCOLD Management Committee members participated in a panel discussion at the National Conference of the International Association for Impact Assessment (South Africa) (IAIASa). This panel discussion aimed to bring Engineers involved in the planning, design, construction, maintenance and operation of water supply, hydro electrical and waste storage dams together with Environmental Specialists acquainted with the management of the associated environmental impacts in order share experience, explore areas of perceived conflict between the parties as well as to identify meaningful ways of working together co-operatively in the shared mission of sustainable development. SANCOLD member Terry Calmeyer, is the President of IAIAsa. The interactions were positive and there was no negativity toward the dam industry.

- Organisation of a specialist workshop in conjunction with the Water Research Commission and the University of Pretoria on the proposed revision of the Guidelines on floods for dams. A meeting of experts was held in May 2013 and this resulted in the formation of five Working Groups. A new Convenor needs to be identified and appointed for the programme. We are hoping that this initiative will lead to a co-ordinated research programme on flood hydrology and the eventual updating of the SANCOLD Guideline;
- SANCOLD Guideline on Risk Analysis: SANCOLD wishes to update the previous work on risk analysis approach towards the safety of dams. The approach is that the WRC would have a comprehensive Project on the topic. Discussions have been held at Management level with the WRC and we have in-principle support for the initiative. It is hoped that the WRC Project will start soon. SANCOLD Member Louis Hattingh is leading the initiative.
- 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. The proposal is to review this publication and issue it as a SANCOLD document which could include other questions like how do you join SANCOLD etc. The DSO will then distribute the publication to dam owners. In short this is a win-win situation for the Dam Safety Office and SANCOLD. It was agreed that SANCOLD would develop this document as a new publication as it also provides a marketing opportunity for the organisation. Management Committee Member, Kelvin Legge, is leading the initiative and drafting of the revised document is scheduled for 2014.
- SANCOLD Guideline on the Application of Geotextiles in Embankment Dams: SANCOLD will produce a document on Geotextiles for Embankment Dams and ICOLD may then adopt it as a Bulletin. The first draft document is complete. Inputs have been received from a range of South African experts. Mr Kelvin Legge is leading 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	(Willie Croucamp) To appoint a new Convenor	Andre' Gorgens Danie van der Spuy
Guideline on Risk Analysis	Louis Hattingh	Ivor Segers Chris Oosthuizen Andre' Bester Pilate Moyo Moses Motaung Gerald de Jager Louis Kirsten
Geofabrics for Dams	Kelvin Legge	Prof Fannin Eduard Vorster +Local experts
<i>Your Dam</i> Publication	Kelvin Legge	Leo van den Berg Jan Nortje
SA Dams for ICOLD 2016	Michelle Blaeser	Authors to be identified

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 Ivor Segers is responsible for promoting the initiative. Currently we have 38 members of the Forum. A new Chairperson will be elected at the Annual Meeting of 2013.

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 12 of ICOLD's 23 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	2009-2013	Dawid van Wyk	Dr Andre' Bester
D	Committee on Concrete Dams	2012-2015	Q Shaw	J Kroon H-J Wright A Botha D Ochan
E	Committee on Embankment Dams	2010-2014	D Badenhorst	H Elges Johan Beukes K Legge (Geofabrics) Jan Brink
F	Committee on Engineering Activities Associated with the Planning Process for Water Resources Projects	2011-2014	S Mabuda	Menard Mugumo Jannie van der Mescht
H	Committee on Dam Safety	2012-2016	I Segers	Dr C Oosthuizen L Hattingh L van den Berg Bongani Sibanda Alan Kockott Bandula Kendaragama
K	Committee on integrated operation of hydropower stations and reservoirs	2011-2015	L Furstenburg <sup>4</sup>	Janus Basson John Sawyer
L	Committee on Tailings Dams	2011-2014	Duncan Grant-Stuart	Andrew Copeland John Wates Steve Dorman Bone Makgekgenene
M	Committee on Operation, Maintenance and Rehabilitation of Dams	2012-2015 <sup>1</sup>	PD Pyke	L Moloji Rep of Umgeni Water
O	Committee on the Register of Dams & Documentation	2011-2014	Mr Bertrand Collet	Leo vd Berg from the Dam Safety Office (DSO).
Q	Committee on Dam Surveillance	2012-2016	Dr C Oosthuizen	A Botha DJ Hagen L Hattingh
Z	Committee on Capacity Building and Dams	2012-2015	K Wall <sup>2</sup>	
New	Committee on Multi-purpose Dams and Reservoirs	2013-2016	Dr Beason Mwaka	Vacant-SANCOLD Members please apply to the Secretary
New	Committee on Cemented Materials Dams	2013-2017	David Cameron-Ellis	Vacant-SANCOLD Members please apply to the Secretary

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
3. SANCOLD MC to ratify
4. SANCOLD applying for membership. Approval by GA in 2013.

ICOLD changed its policy in regard to the sale of their publications (Bulletins) and the Executive Meeting in 2010 decided to make them free 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 codes. Several SANCOLD members have made use of this facility.

South Africa was a prominent participant during the ICOLD Annual Meeting in Seattle in 2013. Some of the main highlights are:

- The event was very well organised. A record attendance of 1 200 delegates from about 70 countries was achieved. The South African delegation numbered 19.
- South Africa featured in many events.
- The SANCOLD Power Point presentation on ICOLD 2016 was well received and we have been confirmed as the host country!
- South Africa had 10 papers in the Symposium proceedings and 6 authors were requested to make verbal presentations.
- Management members, Dawid van Wyk served on the ICOLD Editorial Committee for the Questions for the ICOLD Congress in 2015. The Questions have been circulated to SANCOLD members.
- Guinea Bissau from Africa was elected as the 96<sup>th</sup> member of ICOLD;
- A new Committee on Multi-purpose dams and reservoirs was formed on which South Africa has representation;
- South Africa is now a member of the Committee on Integrated Operation of Hydropower Stations and Reservoirs and our representative is Leon Furstenburg;



***Chairperson Danie Badenhorst presenting South Africa's bid to host ICOLD 2016***

The South African National Committee (SANCOLD) made public its intention to bid (in 2013) for the hosting of the ICOLD (International Commission on Large Dams) Annual Meeting in South Africa in 2016. The International Commission on Large Dams (ICOLD) is a non-governmental organisation that provides a forum for exchange of knowledge and experience in dam engineering, construction and operation at the international level. The Organisation leads the profession in ensuring that dams are built safely, efficiently, economically and without detrimental effects for the environment. ICOLD has 96 member countries and holds an Annual Meeting each year in a different country. A Congress is also held every three years. South Africa hosted the following ICOLD events:

- 1978 Annual Meeting in Cape Town;
- 1994 Annual Meeting and Congress in Durban.

Typically some 600 to 1000 delegates attend the Annual Meeting plus 200 to 300 Accompanying Persons. See the ICOLD website [www.icold-cigb.net](http://www.icold-cigb.net) .

The week-long ICOLD Annual Meeting consists of the following elements:

- Various meetings of ICOLD Committees and the General Assembly;

- One-day Technical Tours;
- A one-day Symposium;
- Technical Workshops;
- A Technical Exhibition;
- Local touristic tours;
- Cultural and social events.

Pre- and Post-Meeting Study Tours (each with a duration of 3 to 5 days) are also to be arranged in South Africa and neighbouring countries.

SANCOLD is already far advanced with planning for the event and will keep the Membership informed of progress. The ICOLD Annual Meeting will be held in Sandton, Johannesburg, from 15 to 20 May 2016. The hosting of the ICOLD Annual Meeting in 2016 offers many benefits to SANCOLD Members such as international exposure and commercial activities with many of the international delegates. We are pleased to report that the South African Cabinet has supported the initiative and that a substantial funding grant will be provided via the Department of Water Affairs.

SANCOLD participated actively in the Africa 2013 Conference on Water Storage and Hydropower Development for Africa held in Addis Ababa, Ethiopia during April 2013. The meeting was organised by *Hydropower and Dams* in association with ICOLD. Some 600 persons from 48 countries attended. SANCOLD Secretary Paul Roberts participated in the organisation of a special session on dam safety and Prof Gerrit Basson, ICOLD Vice-President for Africa organised a session on capacity building in Africa. Several South African consulting companies had stands in the Exhibition. The event has been reported on in detail in *Hydropower and Dams*.



***Prof Gerrit Basson leading the session on capacity building in Africa***

The African Regional Club with Prof Gerrit Basson as Chairperson is going from strength to strength. It met in both Addis Ababa and also in Seattle where some 43 persons attended. The ARC website is <http://academic.sun.ac.za/icold-africa>. The website has been developed by Prof Basson. It can also be accessed via the ICOLD website. The ARC via the ICOLD Committee on Capacity Building has been active in capacity building

and this year SANCOLD member Esther Molepo is on a sponsored visit to China during November to attend an international Symposium on Rockfill Dams.



***African Regional Club meeting in Seattle with ICOLD President Nombre in the foreground and Vice President Gerrit Basson on the left***

The next ICOLD Annual Meeting will be held in Bali, Indonesia, from 1 to 6 June 2014. Details are available on the ICOLD website and on the website [www.icold2014bali.org](http://www.icold2014bali.org). South Africa will present a progress report on the organisation of the ICOLD Annual Meeting in 2016 during this meeting. A Call for Papers for the Symposium with a theme of *Dams in Global Environmental Challenges* has been issued to SANCOLD members.

SANCOLD's finances are sound for the current level of activity, but will require supplementation probably via sponsorships should we host an ICOLD Annual Meeting. Steps are being taken in this regard. The audited financial statements for 2012 will be presented and discussed at the SANCOLD Annual Meeting in 2013.

This year has been a very active one and we estimate that so far we have reached over 90% of the set targets. We look forward to the coming year when we prepare and for ICOLD 2016. It will involve much effort and involvement of the broader membership. We stand to gain many benefits from hosting such an event and I know that we can rely on you for such support and involvement.

Appreciation is expressed to the members of the SANCOLD Management Committee for their support during the year. Appreciation is also expressed to retiring Management Committee members for their contributions to SANCOLD. Thanks are also added to my SANCOLD Colleagues for all of their inputs into this organisation.

*DBBadenhord.*

**Chairperson: SANCOLD  
November 2013**