



ANNUAL SANCOLD 2018 CONFERENCE

CALL FOR PAPERS

Sustainable dam engineering
in an ever-changing world

7 to 9 November 2018

ABOUT THE CONFERENCE

The Annual South African National Committee on Large Dams (SANCOLD) 2018 Conference will be held at the **NH Cape Town Lord Charles Hotel** in **Somerset West** in the Western Cape from **Wednesday 7 to Friday 9 November 2018**.

SANCOLD invites all from South Africa, Africa and the wider family of ICOLD to participate in the Conference which will include technical presentations, technical tours and an exhibition. This event will offer all those contributing to the dam engineering industry including dam and water resources engineers important international, regional and local linkages, networking and the exchange of knowledge and experience opportunities.

SANCOLD 2018 will be an ECSA Continuing Professional Development (CPD) accredited event and attendance for all three days will receive 3.0 credits (1 credit/day).

ORGANISING COMMITTEE

The Organising Committee for this event consists of the **Secretary: SANCOLD (Mr Peter Pyke)** as well as a number of SANCOLD Management Committee Members. SANCOLD has engaged the services of a Professional Conference Organiser (PCO), Tourvest who were responsible for the highly successful SANCOLD Conferences in 2014, 2015 and 2017 as well as the ICOLD Annual Meeting in 2016 in Johannesburg. The contact person from Tourvest who is closely involved with the SANCOLD 2018 Conference is **Janine Abrahams**.

BACKGROUND TO THE CONFERENCE

The general theme of the SANCOLD 2018 Conference is **“Sustainable dam engineering in an ever-changing world”**. A large part of Southern Africa has experienced severe drought in the last few years. The Western Cape in particular, have seen the threat of “Day zero” being continually raised. In other parts of the country significant flooding has in turn raised the question whether existing technology is still appropriate to model and analyse the effect of extreme weather events on the sustainability of our dam infrastructure from both a structural as well as long-term operational point of view. In addition, South Africa has changed from a major dam building country in the 1980s to a country where the focus has changed to mainly long-term sustainable operation and maintenance. The potential future impact of aspects such as climate change, sedimentation, long term behaviour of materials etc. have therefore become of utmost importance.



CONFERENCE THEME AND TOPICS

The general theme of the SANCOLD 2018 Conference is “**Sustainable dam engineering in an ever-changing world**”. A listing of the topics is given below as an aid towards the formulation of a suitable paper within the Conference theme. Please note that the topics are not exhaustive and papers satisfying the conference theme can also be submitted under Topic 10: Other. Abstracts and papers are invited under the following topics:

1. New sustainable dam development including proper water resources analysis;
2. Managing ageing dam infrastructure including operation, maintenance and rehabilitation;
3. Environmental and social issues related to managing dams and reservoirs;
4. Dam safety and surveillance of dams and reservoirs;
5. Engineering capacity and skills development;
6. Long term hydrologic aspects including drought and flood management;
7. The impact of climate change and sedimentation on the design and operation of dams;
8. Tailings and water quality dams;
9. Long term behaviour of dam materials;
10. Other.

CALL FOR PAPERS AND ABSTRACT

The abstract should indicate the paper title, the author(s) and the text should not exceed 200 words. The abstract template can be downloaded from the Abstract and Paper Management system link <http://www.eventsregistration.co.za/sancold2018>. Please note that all abstracts must be submitted using the abstract and paper management system. Once the abstract has been received and accepted, the author/s will be provided with a document which sets out the required format for the full paper. The full paper will be subject to peer review. A substantial prize for the best paper by a qualifying Young Person (see below) will be awarded. The deadline for the submission of abstracts is **31 May 2018**. The Programme will be limited to the presentation of about 40 papers so as to allow for adequate presentation and discussion time. If you have any queries regarding the use of the system, please do not hesitate to contact the Conference Secretariat.

IMPORTANT DATES: SANCOLD 2018

Call for Papers (First Announcement)	Friday 4 May 2018
Abstract submitted by	Thursday 31 May 2018
Abstract approval	Friday 15 June 2018
Registration opens	Monday 2 July 2018
Draft paper submission	Wednesday 15 August 2018
Draft paper reviewed	Thursday 27 September 2018
Closing date for Early-Bird Registration	Wednesday 15 August 2018
Final revised paper submission	Thursday 25 October 2018
PowerPoint presentations submission	Wednesday 31 October 2018

PRELIMINARY CONFERENCE PROGRAMME

The Conference will commence on Wednesday morning **7 November 2018** with a technical keynote address followed by technical presentations. Late in the afternoon of **Wednesday 7 November 2018** each of the ICOLD technical committee representatives from South African will provide feedback of their respective activities. SANCOLD Young Persons Forum meeting and social will be held later the same evening. The Conference Dinner will be held on the Thursday evening. The technical tours will take place on **Friday 9 November 2018** (more detail is provided in a following section). The preliminary Conference Programme is shown below:

Tuesday 6 November 2018	
18:00 to 19:00	Registration
Wednesday 7 November 2018	
07:00 to 08:00	Registration
08:00 to 09:00	Welcome by SANCOLD Chairperson Technical keynote speaker
09:00 to 12:30	Technical session
12:30 to 13:30	Lunch
13:30 to 17:30	Technical session
17:30 to 18:30	Feedback from ICOLD technical committee representatives
18:30 to 19:00	Annual General Meeting of SANCOLD (all welcome)
19:00 to 22:00	SANCOLD Young Persons Forum Meeting and Social
Thursday 8 November 2018	
07:30 to 08:00	Registration
08:00 to 12:30	Technical sessions
12:30 to 13:30	Lunch
13:30 to 17:45	Technical sessions
18:30	Conference Dinner, Awards and Prizes
Friday 9 November 2018	
07:00 to 18:00	Technical tours



SANCOLD YOUNG PERSONS FORUM

The ICOLD Young Engineers Forum (YEF) was formed in Lucerne in 2011 to ensure the sustainability of the ICOLD body and the knowledge transfer within the body to younger engineers. ICOLD encouraged the National Committees to form National Fora which will link into the ICOLD YEF. A “Young Engineer” is defined by ICOLD as a person below the age of 40 years involved in dam engineering and includes scientists, technicians and technologists.

The SANCOLD YEF was established at the SANCOLD Annual Event in 2012 for all SANCOLD Individual Members below the age of 35 years. In 2017 a decision was made to adopt the term “Young Persons Forum” (YPF) to include not only engineers but all relevant individuals active in the dam engineering field who are SANCOLD Individual Members. The qualifying age for the SANCOLD YPF was also changed to below 40 years, but with positions on the SANCOLD Management Committee (MC) and YPF Committee, prizes, and discounts for conferences reserved for individuals of 35 years or younger - in line with that of the ICOLD YEF. We have approximately 50 SANCOLD YPF members. Additional to SANCOLD YPF specific events (workshops, site visits and socials), SANCOLD YPF members are also entitled to other benefits such as the reduction of ECSA Annual Fees as SANCOLD is a Voluntary Association of ECSA.

SANCOLD Individual Members below the age of 35 year will qualify for a discount on their SANCOLD 2018 Conference fee. A SANCOLD YPF meeting and social will be held during the SANCOLD 2018 Conference. All delegates below the age of 40 year are invited to attend this event. SANCOLD encourages the participation of young individuals in the organisation and as an incentive, a prize is given for the best paper prepared and presented by a young individual below the age of 35 years during the annual SANCOLD Conferences. The young individual must be the principal author of the paper and must present it at the Conference. The prize this year would be complementary registration to all the days of the next year’s SANCOLD Conference.

For more information regarding the SANCOLD YPF, please contact **Jaretha Lombard** on ypf@sancold.org.za.



TECHNICAL TOURS

The tour selection offers a great opportunity to the delegates for broadening their knowledge of earthfill embankment construction OR the long-term behaviour of concrete in particular swelling of concrete due to chemical reaction (also known most cases as alkali aggregate reaction). Technical briefings on the technical tours will be made during the first two days of the Conference. Two tour options are being offered which are described in some detail below. The final announcement will have more detail.

Tour A: Earthfill embankments under construction

A number of small earthfill embankments are currently under construction in the Western Cape. The large majority of these dams are for the agricultural industry. This market provides unique challenges as these dam owners are often inclined to accept higher risks to attain initial cost savings. A balance must be attained to ensure that dam safety is not compromised. Designs and construction procedures are also sometimes simplified to accommodate contractors with more limited resources than larger construction companies. It is however still essential to follow proper construction practices when building these dams. It is planned to visit a number of construction sites to offer the delegates some insight of proper construction practices as well as typical problems experienced during the design and construction of small earthfill embankments.

Tour B: Dams effected by swelling concrete due to chemical reaction

Swelling of concrete due to chemical reaction is one of the aspects that have a serious impact on the long-term safety of concrete dams or any component of a dam constructed using concrete. Experience has shown that the large majority of the dam engineering fraternity does not a good understanding of the problem or also how to deal with it (including not knowing how to actually identify it). It is planned to visit three dams effected by swelling concrete – Lower Steenbras Dam, Kleinplaas Dam and Idas Valley Upper Dam. During the tour the delegates will get a better understanding of the problem and also can see on site what the typical signs are that they should be looking for. The importance of proper long-term monitoring will also be highlighted.



VENUE AND ACCOMMODATION

Venue details will be set out in the Final Announcement. The Conference will be held at the **NH Cape Town Lord Charles Hotel** in **Somerset West** in the Western Cape. Road access is easy from the N2 highway as well as the Cape Town International Airport. The venue has a significant amount of rooms available at affordable prices.

ACCOMPANYING PERSONS PROGRAMME

An Accompanying Person's Programme will be offered to such registered persons at cost. The day visits will include interesting tours in the area. A separate listing of the local tours will be provided upon request. Please indicate such interest upon Registration.

SPONSORSHIP OPPORTUNITIES

A number of sponsorship opportunities exist and the SANCOLD 2018 Secretariat should be contacted for further detail. Each technical session may receive sponsorship and the sponsor will be entitled to make a five-minute presentation at the start of the session on their organisation. These sponsorship opportunities include:

- The conference itself;
- Technical sessions;
- YPF dinner;
- Conference dinner;
- Technical tours;
- Audio visual rental;
- Conference bags, stationary, lanyards, memory sticks etc.

EXHIBITION

The SANCOLD 2018 Conference Exhibition is an opportunity to show the Dam Community what you can do. The event is expected to attract around 200 delegates from South Africa, Africa and the rest of the world. The Exhibition will be in the entrance hall of the Conference Centre. Early booking of exhibition space is recommended as the number of spaces could be restricted. The Exhibition will be held on the first two days of the conference (**7 and 8 November 2018**). The approximate size of each exhibition area is 2 x 3 m. (Table and two chairs included). Stand allocation will be based on when payment has been received. If you wish to discuss the matter further please do not hesitate to contact the Conference Secretariat.



REGISTRATION

Registration in 2018 will be limited to the online registration system via the link <http://www.eventsregistration.co.za/sancold2018>. Registration will open on **Monday 2 July 2018**. If you have any queries regarding registration, please do not hesitate to contact the Conference Secretariat.

CONTACT US

Abstracts, papers, technical aspects

Mr. Paul Vinagre - pvinagre@tourvestdm.com, Tel +27 11 676 3462

Delegate Liaison (Registration/accommodation/Exhibition)

Ms Jane Gilliland - secretariat@sancold2018.org.za, Tel +27 21 525 2552

Other matters

SANCOLD Secretary (Peter Pyke) - secretary@sancold.org.za, Tel+27 82 809 5290

The contact person from Tourvest who is closely involved with SANCOLD 2018 is Janine Abrahams (jabrahams@tourvestdm.com).