

CDA INTERNATIONAL COMMITTEE
POST-EVENT REPORT FOR MALAYSIA CONFERENCE AND WORKSHOPS
PENANG, MALAYSIA – NOVEMBER 18-22, 2019

Report prepared by Clare Raska, Coordinator CDA International Committee

Background

The government of Malaysia has identified the need for extensive dam safety projects to remediate deficiencies of a type that Canadian engineers have recently addressed with innovative methods. In 2017 Malaysian approved dam safety guidelines that were modeled on CDA Dam Safety Guidelines. Since that time, the relations between the potential clients in Malaysia and CDA have been developed as follows:

1. In October 2018 Malaysia sent a group of government officials to Canada to learn more about Canadian expertise and experience in the area of dams as well as water management. The delegation met with representatives of the Province of Ontario, Ontario Power Generation and the University of Waterloo.
2. In February 2019, supported by CanExport Associations, CDA hosted a follow-up group to visit Canada. This involved the reallocation of unused funds from the 2018/19 application. The event was hosted by Ontario Power Generation and included representatives of Hatch and Klohn Crippen Berger in Niagara Falls.
3. In June 2019, a delegation of 10 Malaysians attended ICOLD 2019 in Ottawa, representing Tenaga Nasional Berhad (TNB), UNITEN Research and Development (the National Energy University, Universiti Tenaga Nasional), Sarawak Energy, the Dept of Irrigation and Drainage and other agencies. Partial funding was provided from the CDA-CanExport program. Seven of the delegates from TNB, UNITEN and Sarawak extended their stay in order to visit Ontario Power Generation and Hatch in Niagara Falls for 3 additional days of discussions.
4. In November 2019, the Malaysian Committee on Large Dams (MYCOLD) hosted the first International Conference on Dam Safety Management and Engineering (ICDSME2019) in Penang, Malaysia, with the theme “Resilient Dams for Safe Communities.” The event was jointly organized by the Tenaga Nasional Berhad (TNB), Department of Irrigation and Drainage (DID) and Universiti Tenaga Nasional (UNITEN). MYCOLD invited CDA and Canadian delegates to participate fully in that event, as described in this report.

Event Summary

Six Canadian delegates attended ICDSME2019, along with approximately 450 other delegates, including a considerable number of international delegates. The event was very well organized with an excellent set of technical papers delivered throughout the conference. Keynote speakers included several international experts (see attached excerpt from ICDSME2019 Brochure) including Tony Bennett from Canada. A full technical program addressed all aspects of dam safety management and engineering. Pre-conference and post-conference workshops were held, including two CDA workshops – Dam Safety Reviews, and Emergency Management.

Funding to support travel and exhibition fees for 2 CDA representatives and 2 company representatives was provided through a reallocation of unused 2019/2020 CanExport funds for this event.

The two CDA Workshops on Dam Safety Reviews and Emergency Management were very well received by the delegates, with all responders to the evaluation indicating that the objectives were effectively met. A total of 41 delegates attended the Dam Safety Review workshop and 30 delegates attended the Emergency Management workshop. The majority of delegates were from Malaysia; 4 delegates from Nigeria attended, along with individuals from Indonesia and Australia. The Nigerian participants raised the issue of CDA delivering similar workshops in Nigeria, a topic which is currently under discussion with NICOLD and Mainstream Energy.

There was an exhibit hall with approximately 25 booths including CDA and RST Instruments, a Canada company.

CDA has a collaboration agreement with MYCOLD, signed in Ottawa in June 2019. Representatives from the two organizations met to review progress on initiatives.

A Post-conference tour was organized by the MYCOLD hosts for 3 of the Canadian representatives to meet dam safety managers of Tenaga Nasional Berhad (TNB) at the Temengor Dam facilities. These discussions were very productive and they are likely to lead to requests for CDA to deliver training workshops in the near future. There appear to be opportunities for Canadian companies to participate in projects related to dam safety rehabilitation and management in Malaysia.

Ontario Power Generation (OPG) formalized a memorandum of understanding with Sarawak Energy to begin a program of technical exchanges with Malaysian engineers.

CDA was invited by Hydropower & Dams, along with MYCOLD and other sponsors, to attend [Asia 2020](#) in Kuala Lumpur, Malaysia in March 2020.



Dr. Lariyah Mohd Sidek - Professor at Universiti Tenaga Nasional and President of MYCOLD



Tony Bennett, OPG, and Polycarp Wong, Sarawak Energy



Representatives from UNITEN and CDA



Temengor Dam, Tenaga Nasional Berhad (TNB)

Excerpts from ICDSME 2019 brochure and website:



Announcement of ICDSME 2019

The Malaysian National Committee on Large Dams ([MYCOLD](http://www.mycold.org.my/)) is proud to host the first International Conference on Dam Safety Management and Engineering (**ICDSME2019**). The conference with the theme *“Resilient Dams for Safe Communities”* is jointly organized by the **Tenaga Nasional Berhad (TNB)**, **Department of Irrigation and Drainage (DID)** and **Universiti Tenaga Nasional (UNITEN)**. It is also with great pleasure to announce that the principal keynote speakers of the conference include:

- Mr. Michael F. Rogers (President of ICOLD/CIGB, USA)
- Ir. Roslan Abd. Rahman (Chief Generation Officer of TNB)
- Dato' Ir. Hj. Nor Hisham Mohd Ghazali (Deputy Director General (Business Sector), DID Malaysia)
- Ir James Ung Sing Kwong (CEO SEB Power Sdn Bhd)
- Mr. Tony Bennett (Director, Dam and Public Safety, OPG)
- Dr. Dong Hoon Shin (Director General, Infrastructure Safety Research, K-water Institute, KOREA)
- Prof. Pierre Y. Julien (Colorado State University, USA)
- Dr. Chabungbam Rajagopal Singh (Senior Water Resources Specialist, The World Bank, INDIA)

Yours sincerely,

Datin Prof Ir Dr. Lariyah Mohd Sidek

Chairman ICDSME2019

Professor, Dam Safety Chair

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