

CANADIAN ASSOCIATION ON WATER QUALITY

2016 ANNUAL REPORT

The Canadian Association on Water Quality (CAWQ) is a non-governmental, non-profit organization for scientists, engineers, technologists, administrators, practitioners, and students engaged in or interested in research on water quality or on the control or treatment of water pollution. The CAWQ was officially incorporated in the province of Ontario in 1992. Federal incorporation as a not for profit corporation was completed in 2012.

In 2016, the Association had 150 memberships, representing private, government and university sectors. These memberships were broken down as follows: 33 individual CAWQ, 37 Individual joint CAWQ and IWA (our parent organization), 68 Young Water Professionals (less than 35 years of age) CAWQ, 4 Retired Joint CAWQ and IWA and 8 Joint CAWQ-IWA Young water Professionals

The mission of the Canadian Association on Water Quality (CAWQ) is to foster a nationwide network of people who are dedicated to the preservation and enhancement of water quality through research and development, education and the dissemination of knowledge.

WATER QUALITY RESEARCH JOURNAL OF CANADA

The Water Quality Research Journal of Canada (WQRJC) has been published continuously for 50 years, which makes it one of the oldest such peer-reviewed journals in the field, publishing in English and in French. Starting as proceedings of the annual conference of the CAWQ, the WQRJC has evolved into a quarterly journal which attracts high-level papers from Canada and abroad. It is now indexed/abstracted in: Applied Science & Technology Abstracts, Applied Science & Technology Index, ASFA Indexing, BIOSIS, CAB International, Cambridge Scientific Abstracts, Chemical Abstracts Services, Current Contents, Agriculture, Biology & Environmental Sciences, ISI, Elsevier GeoAbstracts, Engineering Information Inc., and the International Academy at Santa Barbara. The WQRJC has been published by IWA Publishing (IWAP) since 2011 and is provided as a membership service to members of the CAWQ. The new publishing arrangements have led to faster turnaround times (review and publication) and wider international exposure. The WQRJC is now well positioned to be the natural publication route for all CAWQ-hosted conferences.

Dr. Peter Vanrolleghem of the Université of Laval and Dr. Ronald Droste of the University of Ottawa were appointed as joint Editors of the WQRJC commencing January 1, 2014. They are assisted by Emma Gulseven, IWAP.

The journal scope has now been revised to:

- Impact of current and emerging contaminants on aquatic ecosystems
- Aquatic ecology (ecohydrology and ecohydraulics, invasive species, biodiversity, and aquatic species at risk)
- Conservation and protection of aquatic environments
- Responsible resource development and water quality (mining, forestry, hydropower, oil and gas)
- Drinking water, wastewater and stormwater treatment technologies and strategies
- Impacts and solutions of diffuse pollution (urban and agricultural run-off) on water quality
- Industrial water quality
- Used water: Reuse and resource recovery
- equality (management, remediation, fracking, legacy contaminants)
- Assessment of surface and subsurface water quality

- Regulations, economics, strategies and policies related to water quality
- Social science issues in relation to water quality
- Water quality in remote areas
- Water quality in cold climates

A total of 32 papers in Volume 51 of the WQRJC were published in 2016 and distributed to CAWQ and international members and to the more than 97 library subscribers world-wide.

The abstracts for each paper published as well as authors' instructions, scope of the Journal, subscription and membership information can be accessed on the Journal's web site (see www.cawq.ca or www.acqe.ca). Full issues and individual articles can also be purchased online. For more information about the WQRJC, please refer to the Annual Report produced by the Editors. This report can be viewed on the website at www.cawq.ca.

THE CAWQ AND JOURNAL WEBSITES

Journal articles are now available on-line, giving CAWQ members the option of receiving on-line versions, in addition to or instead of the hardcopy version. A new search engine also allows users to query key words and authors. Furthermore, in collaboration with McGill University, articles from back issues of the Journal (1966 to 2001) are now available free-of-charge at: <http://digital.library.mcgill.ca/wqri/> Articles from 2002-2012 are also available without charge from the CAWQ website.

On-line membership, journal, and symposium payments are also available through the CAWQ website, which was significantly upgraded in 2011 and went on-line in December, 2011 (statistics on web site use are monitored to tune information delivery – weekly about 250 website accesses occur, with a peak at the time of the Central Canadian Symposium). A secure connection is now available for credit card information to be sent via the site. Please visit the site at www.cawq.ca or www.acqe.ca.

ORGANIZATION OF SYMPOSIA

CAWQ organizes annual regional symposia on water quality research, providing a venue for the presentation of recent research results and the opportunity for the exchange of information and networking. Presenters at the symposia are encouraged to submit their work for peer review and publication in the *Water Quality Research Journal of Canada*. Some details about these conferences include:

- The 51st Central Canadian Symposium on Water Quality Research was held on February 23rd – 25th 2016, at Ryerson University, Toronto, Ontario. This symposium was chaired by Dr Chris Marvin, Environment Canada and Dr. Elsayed Elbeshbishy.
- The 30th Eastern Canadian symposium on Water Quality Research was held on May 27, 2016 at Ottawa Carleton Institute for Environmental Engineering (OCIENE) at University of Ottawa, Ottawa, Ontario. This symposium was chaired by Dr. Robert Delatolla.
- The 3rd WEST (*Water and Environment Student Talks*) was held on June 6th -7th, 2016 in Vancouver, BC. This symposium was chaired by Pierre Bérubé.

- *The 2nd Canadian National Water and Wastewater Conference* was held on November 13th -16th, 2016 in Toronto, Ontario. This conference was jointly organized with the Canadian Water and Wastewater Association.

The CAWQ sponsors a competition for the “best presentation” of a research paper made by a student at each of the regional symposia. Historically only one prize was awarded. Starting in 2012 two awards are issued at each symposium, and Young Professionals (under age 35) were also made eligible for the award. The winners receive the Philip H. Jones Award, which was established in honour of a founding member of the association. The Award winners receive a certificate, a cash prize of \$300 for first place and \$200 for second place, a one-year joint membership in CAWQ and IWA, one-year subscriptions to the *Water Quality Research Journal of Canada* and *Water 21*, a mention of their name in an issue of the journal and on the website, and a formal invitation to submit their work for peer review and eventual publication in the WQRJC. The following students were presented the Philip H. Jones Award at symposia held in 2016:

Jeffrey Michael Power Parr
 McMaster University, Hamilton, Ontario
51st Central Canadian Symposium on Water Quality Research

Bipro Ranjan Dhar
 University of Waterloo, Waterloo, Ontario
51^s Central Canadian Symposium on Water Quality Research

Bradley Young
 University of Ottawa, Ottawa, Ontario
30th Eastern Canadian Symposium on Water Quality Research

Patrick D’Aoust
 University of Ottawa, Ottawa, Ontario
30th Eastern Canadian Symposium on Water Quality Research

Olenka Forde
 University of British Columbia, Vancouver, British Columbia
3rd WEST Canadian Symposium on Water Quality Research

David Hurley
 University of British Columbia, Vancouver, British Columbia
3rd WEST Canadian Symposium on Water Quality Research

Tanner Devlin
 University of Manitoba, Winnipeg, Manitoba
Canadian National Water and Wastewater Conference

Maricor Arlos
 University of Waterloo, Waterloo, Ontario
Canadian National Water and Wastewater Conference

SUPPORT OF STUDENTS

As part of its mandate, the Association provides assistance and encouragement to students in the water quality and water pollution fields. Students are encouraged to join CAWQ in the Young Water Professionals (less than 35 years of age) membership category. This includes significant reductions in CAWQ membership fees (by approximately 75% of the regular fee) and in symposia registration fees as well as the awarding of the Philip H. Jones Awards for the “best student presentations” at each of the regional symposia, as mentioned above.

INTERNATIONAL ACTIVITIES

A joint CAWQ-IWA membership is available to CAWQ members. The joint membership fees represent a saving of up to 25% over membership of CAWQ and IWA purchased separately. In addition, joint CAWQ-IWA members may subscribe to any, or all, of the IWA journals which are available in print or electronic format. Please refer to "IWAPonline" for a complete list of online journals and the Water Reference Library for books and reports. These include the following:

- *Water Quality Research Journal of Canada* —The journal publishes peer-reviewed, scholarly articles dealing with the aquatic environment. Articles from outside of Canada are welcome provided that they are of interest to the Canadian water quality research community. Starting in January 2017, the name of the journal will be *Water Quality Research Journal*.
- *Water Research* — A world leading journal for research papers on all aspects of water quality and wastewater management.
- *Water Science & Technology* — A journal publishing selected proceedings from IWA's conferences and directly submitted papers.
- *Water Science & Technology: Water Supply* — State of the art reports and scientific technical papers presented at IWA's conferences and directly submitted papers.
- *Journal of Hydroinformatics* — A peer-reviewed journal devoted to the application of information technology in the widest sense to problems of the aquatic environment.
- *Journal of Water Supply & Technology (Aqua)* — A journal containing wide-ranging coverage of scientific, engineering and technical topics in the water services field.
- *Journal of Water and Health* — A new journal that disseminates information on health implications and control of waterborne micro-organisms and chemical substances in the broadest sense.
- *Water Practice* — Publishes, analysis, reviews and debates on all policy aspects of water resources.
- *Journal of Water and Climate Change* — Publishes refereed research and practitioner papers on all aspects of water science, technology, management and innovation in response to climate change, with emphasis on reduction of energy usage.
- *Hydrology Research* — Provides international coverage on all aspects of hydrology in its widest sense, and welcomes the submission of papers from across the subject. While

emphasis is placed on studies of the hydrological cycle, the Journal also covers the physics and chemistry of water.

- *Water, Sanitation and Hygiene for Development* — A peer-reviewed journal devoted to the dissemination of high-quality information on the science, policy and practice of drinking-water supply, sanitation and hygiene at local, national and international levels.
- *Water Asset Management International* — An international newsletter focusing on asset management in water and wastewater utilities.
- *Journal of Water Reuse and Desalination (JWRD)* — Publishes refereed review articles, theoretical and experimental research papers, new findings and issues of unplanned and planned reuse.

INITIATIVES

The IWA was founded in 1998 by the amalgamation of the International Association on Water Quality (IAWQ) and the International Water Services Association (IWSA) to form the new International Water Association (IWA), with interests and responsibilities being similar to those of its two founding organizations. Before the merger, the CAWQ served as the Canadian National Committee (CNC) of the IAWQ and represented Canada on the IAWQ Governing Board. From 1998 to 2007, the CAWQ was the sole member of the CNC.

The Canadian Water and Wastewater Association (CWWA) is a national association with members from the water services sector, municipalities and regional organizations. This association shares with the CAWQ the common objectives of advancing and implementing knowledge for the provision of safe drinking water and the environmentally sound management of wastewater. After discussions between the CAWQ and CWWA, it was felt that the complementary objectives of the two organizations would be enhanced by establishing a framework for their collaboration. As a result, since 2007, the CWWA and the CAWQ have agreed to become partners of the CNC-IWA to better participate in the activities and promotion of the IWA. Representing CAWQ in 2014 were Dr. Ron Droste, CAWQ past President, Dr Peter Vanrolleghem, CAWQ Vice-President (Eastern Region) and Mr. Clayton Tiedemann, President CAWQ.

In order to improve its ability to represent the interests and views of its members and other stakeholders across Canada, the CAWQ undertook the following initiatives in 2014:

- The 2014 to 2018 Strategic Plan was developed and approved by the Board of Directors. The plan is available for review on the CAWQ/ACQE website www.cawq.ca.
- Collaborative efforts continue with regional associations such as the Atlantic Canada Water and Wastewater Association, the Water Environment Association of Ontario, the Ontario Water Works Association, British Columbia Water and Waste Association, Réseau Environnement, to create opportunities for all organizations and to raise the profile of the CAWQ.
- Members of the CAWQ were actively engaged in a national effort to develop an agenda on water research priorities in Canada.

- Sponsorship support was provided for international and national specialty conferences related to water quality in Canada.
- Vision and supporting documents of the CAWQ were reviewed and revised.

REVENUE

The CAWQ has implemented a policy that requires students, who are by design significant participants in all CAWQ symposia, to become paid members of the CAWQ in the Young Water Professional membership category for the year as part of their symposium registration fee. This is targeted to increase student membership in the CAWQ with the goal being to retain higher numbers of them as members after they graduate. Young Water Professional members of CAWQ have electronic access to the journal.

The Canadian National Committee (CNC) of IWA (CWWA is the equal joint member of CNC) drafted a letter to IWA requesting that:

- IWA levy a \$20 fee on all Canadian individual IWA memberships and remit those funds to CNC;
- IWA levy a \$40 fee on all Canadian corporate memberships and remit those funds to CNC;
- IWA request that organizers of IWA events in Canada be asked to voluntarily place a levy of \$5 per delegate on all registrations and remit those funds to CNC.

GOVERNANCE & ADMINISTRATION

The Board of Directors of the CAWQ is comprised of the Executive Committee and Regional Directors, as shown below. All individuals are volunteers and are appointed to these positions as per the Bylaws of the CAWQ. These bylaws can be found on the CAWQ website.

Ms. Janet McAvella is in charge of the Administration and Membership office of the CAWQ, located in Burlington, Ontario. Mr. Brad Cutler provides assistance with the CAWQ website maintenance. In addition, financial administrative services are provided by Ms. Marilyn Crawford, XCG Consultants Ltd., Kitchener, Ontario. The CAWQ is sincerely grateful to Ms. McAvella, Ms. Crawford and Mr. Cutler for their invaluable assistance and support.

CAWQ Executive Committee 2015 -2016

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