

# CANADIAN ASSOCIATION ON WATER QUALITY

## 2013 ANNUAL REPORT

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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 2013, the Association had 104 memberships, representing private, government and university sectors. These memberships were broken down as follows: 32 Individual CAWQ, 46 Individual joint CAWQ and IWA (our parent organization), 6 Young Water Professionals (less than 35 years of age) CAWQ, 3 Retired Joint CAWQ and IWA, 15 Student Joint CAWQ-IWA and 2 Corporate.

The mission of the Canadian Association on Water Quality (CAWQ) is to create and foster a nationwide network of professionals dedicated to the development and communication of knowledge for the preservation and enhancement of the water quality environment.

### WATER QUALITY RESEARCH JOURNAL OF CANADA

The Water Quality Research Journal of Canada (WQRJC) has been published continuously for 46 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 Canadian Association on Water Quality (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.

Professor Ronald Gehr, Department of Civil Engineering and Applied Mechanics, McGill University, is Editor of the WQRJC. He leads the overall editorial development of the Journal and its readership growth efforts and is assisted by guest editors for Theme Issues. He is also assisted by Emma Gulseven, who was appointed in 2012 as Managing Editor of the journal. In October, 2013, Ms. Gulseven took maternity leave, and was temporarily replaced by Clare Spencer, who took on all Editorial duties.

A total of 32 papers in Volume 48 of the WQRJC were published in 2013 and distributed to CAWQ members and to the more than 80 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](http://www.cawq.ca) or [www.acqe.ca](http://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 Editor, Professor R. Gehr. This report can be viewed on the website at [www.cawq.ca](http://www.cawq.ca).

Early on in 2013, Dr. Gehr announced his intention to step down as Editor of the WQRJC at the end of the year. A search to replace Dr. Gehr was initiated by the Board of Directors which resulted in the selection of Dr. Peter Vanrolleghem of the University of Laval and Dr. Ronald Droste of the University of Ottawa being appointed as joint Editors of the WQRJC commencing January 1, 2014. Dr. Gehr will be working very closely with Drs. Vanrolleghem and Droste to ensure a smooth transition. The Board of Directors wishes to thank Dr. Gehr for his many years of dedicated service to the WQRJC and the CAWQ. A formal recognition ceremony will be held at the spring 2014 CAWQ Board of Directors meeting.

## 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/wqrj/> Articles from 2002-2010 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](http://www.cawq.ca) or [www.acqe.ca](http://www.acqe.ca).

## ORGANIZATION OF SYMPOSIA

CAWQ, together with CWWA, form IWA's Canadian National Committee, supporting the organization of international conferences organized by IWA. This year the *3rd IWA/WEF Wastewater Treatment Modelling Seminar (WWTmod2012)* was organized by Prof. Peter Vanrolleghem and his team (Université Laval) from February 26-28, 2012 in Mont-Sainte-Anne, Québec. The CAWQ was represented to the international audience by Prof. Yves Comeau. More information can be found at <http://www.modeleau.org/WWTmod2012/>.

In 2012 Dr. Jan Oleszkiewicz of the University of Manitoba helped organize the *WEF/IWA Nutrient Removal and Recovery 2013: Trends in Resource Recovery and Use (NRR2013)* conference held from July 28-31, 2013 in Vancouver, British Columbia. More information can be found at: <http://www.iwahq.org/1wk/events/iwa-events/2013/nrr-2013.html>.

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 48<sup>th</sup> *Central Canadian Symposium on Water Quality Research* was held in partnership with the 5<sup>th</sup> Canadian Wastewater Management Conference on March 6-8<sup>th</sup>, 2013 in Hamilton, Ontario.
- The 28<sup>th</sup> *Eastern Regional Symposium* was held in Kingston, Ontario on October 26, 2013. This symposium had 64 registrants and 17 poster presentations. This event was organized by Dr Bruce Anderson of Queens University.

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 2013:

Ayla Ahmed  
University of Ottawa, Ottawa, Ontario  
*48<sup>th</sup> Central Canadian Symposium on Water Quality Research*

Ludiwine Clouzot  
Université Laval, Québec, Québec  
*48<sup>th</sup> Central Canadian Symposium on Water Quality Research*

Shawn Burdett  
Royal Military College, Québec, Québec  
*28<sup>th</sup> Eastern Canadian Symposium on Water Quality Research*

Imad Touahar  
University of Sherbrooke, Sherbrooke, Québec  
*28<sup>th</sup> Eastern Canadian Symposium on Water Quality Research*

## 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.
- *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.

- *Water Utility Management International* — Provides an international reference point on the strategic management issues affecting water utilities and on the leading management approaches from around the world aimed at responding to these issues.
- *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.
- *Water Practice & Technology* — Provides the widest possible dissemination of high-quality material that is of interest to practitioners rather than researchers.

## 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 2013 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 2013:

- Mr. Clayton Tiedemann, President, Dr. Peter Vanrolleghem, Vice President (Eastern), Dr. Ron Droste, Past President, Dr. Peter Jones, Treasurer, and Dr. Jim Nicell, Director (Eastern) developed the draft 2014 to 2018 CAWQ Strategic Plan. This plan is being reviewed by the Board of Directors and will be tabled for approval at the spring 2014 CAWQ Board of Directors meeting. Once approved, this document will guide the strategic initiatives of CAWQ over the next five year period.
- Dr. Chris Marvin, Vice President (Central Region) worked very closely with CWWA to plan another joint conference to be held March 5 to 7, 2014 at Niagara on the Lake, Ontario. This joint conference combines the 6<sup>th</sup> CWWA Canadian Wastewater Management Conference and the 49<sup>th</sup> CAWQ Central Symposium.

- Dr. Bing Chen, Director (Atlantic Region), supported by Mr. Peter McCarthy, Vice President (Atlantic Region) and in conjunction with CSCE and ISEIS, began planning for the first CAWQ Atlantic Symposium to be held August 6 to 8, 2014 In St. John's, Newfoundland.
- Dr. Yves Comeau, Secretary, announced the 29<sup>th</sup> Eastern Symposium will be held in Montreal, likely in October, 2014.
- Dr. Pierre Berube, Vice President (Pacific) announced plans to set up a “Water Talks” Symposium in 2014 that would focus on Young Water Professionals. This will likely be held in early summer, 2014 in Vancouver, British Columbia.
- 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 was 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.

The joint conference (48<sup>th</sup> Central Symposium) held with CWWA in Hamilton, Ontario, March 6-8 was very successful. CAWQ share of the profits amounted to \$18,552. The 28<sup>th</sup> Eastern Symposium in Kingston, Ontario, October 26, netted a profit of \$3782.

## **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 both NWRI and Ms Crawford for their invaluable assistance and support.

## Executive Committee

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#### **Clayton E. Tiedemann**

Director of Water Treatment, EPCOR Water Services Inc., Edmonton, Alberta

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ADI Systems Inc. Fredericton, New Brunswick

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Département de génie civil et de génie des eaux, Université Laval, Québec, Québec

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Water Science and Technology Directorate, Environment Canada, Burlington, Ontario

#### **Dr. Jan Oleszkiewicz** (*Western Region*)

Department of Civil Engineering, University of Manitoba, Winnipeg, Manitoba

#### **Dr. Pierre Bérubé** (*Pacific Region*)

Department of Civil Engineering, University of British Columbia, Vancouver, British Columbia

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Department of Civil, Geological and Mining Engineering, , École Polytechnique, Montréal, Québec

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Department of Civil, Geological and Mining Engineering, , École Polytechnique, Montréal, Québec

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Department of Civil Engineering, University of Ottawa, Ottawa, Ontario

## Regional Directors

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#### **Dr. Kripa S. Singh**

Department of Civil Engineering, University of New Brunswick, Fredericton, New Brunswick

#### **Dr. Bing Chen**

Faculty of Engineering, Memorial University of Newfoundland, St John's Newfoundland

### *Eastern Region*

#### **Dr. Jim A. Nicell**

Department of Civil Engineering and Applied Mechanics, McGill University, Montréal, Québec

#### **Dr. Rajesh D Tyagi**

INRS-ETE, Québec, Québec

### *Central Region*

#### **Dr. Bruce C. Anderson**

Department of Civil Engineering, Queen's University, Kingston, Ontario

#### **Dr. Susan Andrews**

Department of Civil and Environmental Engineering, University of Toronto Toronto, Ontario

### *Western Region*

#### **Dr. Lyndon Guyrek**

Senior Manager Environmental EPCOR Water Services Inc. Edmonton, Alberta

#### **Dr. O.S. (Arasu) Thirunavukkarasu**

Municipal Branch, Saskatchewan Ministry of Environment, Regina, Saskatchewan

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#### **Dr. Mark Johnson**

Department of Earth, Ocean and Atmospheric Services, University of British Columbia Vancouver, British Columbia

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#### **Lyle Shipley**

Water Environment Association of Ontario, Milton, Ontario



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**Janet McAvella**

Canadian Association on Water Quality  
Burlington, Ontario