

# CANADIAN ASSOCIATION ON WATER QUALITY

## 2010 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 is pending.

In 2010, the Association had 442 memberships, representing private, government and university sectors. These memberships were broken down as follows: 172 Individual CAWQ, 79 Individual joint CAWQ and International Water Association (IWA, our parent organization), 139 Student CAWQ, 4 Retired CAWQ, 4 Retired Joint CAWQ-IWA, 27 Student Joint CAWQ-IWA, and 17 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**

A cost-shared publication agreement between the CAWQ and the National Water Research Institute (NWRI) in Burlington, Ontario has been in effect for many years but is currently being revisited. This agreement provided for the services of a managing editor who took editorial responsibility for the publication of the Journal. The partnership has changed and now the CAWQ covers costs associated with the Managing Editor's work in addition to the publication charges. The NWRI provides office space and equipment, and access to graphic services to continue publishing the Journal.

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 Managing Editor, Janet Jardine, and 14 Associate Editors as well as Guest Editors for Theme Issues.

There will be a total of 84 papers published in Volume 45 of the WQRJC 2010 that will be published and distributed to CAWQ members and to the more than 80 library subscribers world-wide. Volume 45(2) was a Special Issue with select papers from the Seventh International Conference on the Fate and Effects of Pulp and Paper Mill Effluent held in Fredericton, New Brunswick on June 14–17, 2009, where research on the environmental consequences of mill effluents with reference to ongoing changes in the industry were presented and discussed among interested stakeholders. Mark McMaster and Mark Hewitt, both of Environment Canada, proposed and co-edited this Special Issue of the WQRJC. The special issue features an overview written by the co-editors and 14 papers by authors who presented a variety of research initiatives, progress, and perspectives on current issues.

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.

### **THE CAWQ AND JOURNAL WEBSITE**

Journal articles are available on-line, giving CAWQ members the option of accessing articles in electronic format in addition to or instead of in hardcopy. 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 are now available free-of-charge at <http://digital.library.mcgill.ca/wqrj/>.

On-line membership, journal, and symposium payments are also available through the website. A secure connection is now available for credit card information to be sent via the site. Please visit the upgraded site at [www.cawq.ca](http://www.cawq.ca) or [www.acqe.ca](http://www.acqe.ca).

## SPONSORSHIP OF SYMPOSIA

CAWQ sponsors 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 45<sup>th</sup> *Central Canadian Symposium on Water Quality Research* chaired by Dr. Kirsten Exall was held in Burlington, Ontario at the Canadian Centre for Inland Waters on February 22 and 23, 2010. It was co-sponsored by the CAWQ and the National Water Research Institute.
- There was no *Eastern Regional Symposium* in 2009 given that the IWA Congress was held in Montreal in September 2009. .
- The 11<sup>th</sup> *Western Regional Symposium*, chaired by Dr. Eric Hall was organised jointly with the British Columbia Water and Wastewater Association (BCWWA) and was held in Whistler, British Columbia from May 1 - 5, 2010.

The CAWQ sponsors a competition for the “best presentation” of a research paper made by a student at each of the regional symposia. The winners receive the Philip H. Jones Award, which includes a certificate, a cash prize of \$200, a one-year joint membership in CAWQ and IWA, including a subscription to the *Water Quality Research Journal of Canada* and *Water 21*, 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 journal. The following students were presented the Philip H. Jones Award at the three symposia held in 2010:

At the **45th Central Canadian Symposium on Water Quality Research**, held February 22–23, 2010 in Burlington, Ontario, the Philip H. Jones award winners were:

**Etienne Bordeleau**  
Department of Civil Engineering  
University of Ottawa  
Ottawa, Ontario

for a presentation titled “Comprehensive Wastewater Treatment Plant and Sludge Pretreatment Model” Co-authored by R.L. Droste.

**Neema Prabhakaran Mariyamma**  
University of Quebec  
Institute National de Recherche Scientifique (INRS)  
Quebec City, Quebec

for a presentation titled “Cloning of cry 1 and cry 4 genes from native *Bacillus thuringiensis* isolated from the Western Ghats of Kerala”, co-authored with R.D. Tyagi and D. Girija.

At the **11th Western Canadian Symposium on Water Quality Research**, held May 1–5, 2010 in Whistler, British Columbia, the Philip H. Jones award winner was:

**Kerry Black**  
Department of Civil Engineering, Faculty of Applied Science  
University of British Columbia  
Vancouver, British Columbia

for a presentation titled “Effect of Biological Activated Carbon Filters on the Removal of Biodegradable Natural Organic Matter” , co-authored with P. Bérubé.

## SUPPORT OF STUDENTS

As part of its mandate, the Association provides assistance and encouragement to students in the water quality and water pollution fields. This includes significant reductions in CAWQ membership fees (by approximately 75% of the regular fee) and 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

The CAWQ and the Canadian Water and Wastewater Association (CWWA) comprise the Canadian National Committee (CNC) of the International Water Association (IWA). The CNC represents Canada on the IWA assembly. The 2010 Canadian representatives on the IWA Governing Board are Dr. Peter Jones (CAWQ), Dr. Ron Droste (CAWQ), and Wolf Keller (CWWA). Canada has one vote on the IWA assembly.

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. These are as follows:

- *Water Research* — a world leading journal for research papers on all aspects of water quality and wastewater management.
- *Water Science & Technology* — a journal publishing peer-reviewed papers on all aspects of water quality management and pollution control.
- *Water Science & Technology: Water Supply* — publishing scientific technical papers on all aspects of water supply.
- *Journal of Hydro-Informatics* — 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.

Joint members also have access to other IWA newsletters and publication including *Water 21*.

## ON-GOING AND FUTURE 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 of the IAWQ and represented Canada on the IAWQ Governing Board. Although it continues to do this, the CAWQ must now represent a broader base that includes the water services sector, municipalities and regional organizations.

In order to improve its ability to represent the interests and views of these groups across Canada, the CAWQ is undertaking initiatives to:

- Further develop its collaborations with the CWWA and regional associations such as the Water

Environment Association of Ontario, the Ontario Water Works Association, Western Canada Water, British Columbia Water and Waste Association, Réseau Environnement, to create opportunities for all organizations, and to raise the profile of the CAWQ.

- Support the development of additional symposia in regions of Canada that have not previously hosted such events. CAWQ has now formed five regional divisions: Atlantic, Eastern, Central, Western, and Pacific.
- To actively engage in a national effort to develop an agenda on water research priorities in Canada.
- To continue to support and sponsor international and national specialty conferences related to water quality in Canada.
- To revise and improve its vision and supporting documents.

## **JOURNAL INITIATIVES**

The journal retains a highly respectable rating in citation indices and all actions are focused on retaining this acclaim with a view to further increasing its circulation. Software has been acquired to facilitate editing and production of the journal as well as review of submissions at a lower cost. Authors of accepted papers are now offered the option, for a fee, of having their papers available for free immediate download by anyone.

Other changes are being considered to increase revenue and circulation of the journal. The most significant is the commencement of negotiations with IWA Publishing (IWAP) for them to take on the publishing function of the Water Quality Research Journal of Canada. CAWQ will maintain all editorial control. We expect these negotiations to be completed in 2011.

## **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 for the year as part of their symposium registration fee. This has increased student membership in the CAWQ with the goal being to retain higher numbers of them as members after they graduate. Student members of CAWQ have electronic access to the journal.

The Canadian National Committee (CNC) of IWA (CWWA is the equal joint member of CNC) now requires conferences that wish to have IWA or CNC endorsement to render a small fee to CNC, which is shared by the CAWQ and the CWWA.

## **CONFERENCE ORGANIZATION**

Members of the CAWQ are primary organizers of two prestigious IWA-sanctioned conferences held in Canada during 2010. The first conference is the *2<sup>nd</sup> IWA/WEF Wastewater Treatment Modelling Seminar 2010* (WWTmod 2010) that took place from March 28-30, 2010, in Mont Sainte-Anne, Quebec. The second is the *14<sup>th</sup> IWA International Conference on Diffuse Pollution and Eutrophication* that took place from September 12-17, 2010, in Mont Sainte-Anne, Quebec.

## **CONFERENCE SPONSORSHIP**

Notably, under the leadership of Peter Jones, (Eastern Regional Director and former President of the CAWQ), the CAWQ has made a successful bid to host the IWA World Water Congress and Exhibition in September 2010 in Montreal, QC, as approved at the IWA Governing Board meeting held in Oaxaca, Mexico in 2005.

The international organizing committee included Ronald Droste Yves Comeau Peter Jones from the CAWQ and Duncan Ellison from the CWWA. These Canadians also participated in a local organizing committee with

Peter Vanrolleghem of the CAWQ and Laval University, Ronnie Gehr of the CAWQ and McGill University, Richard Fontaine and Claude Émard both of the City of Montreal, André Aubin formerly of the City of Montreal and the CWWA; Tyler Ball of SNC Lavalin; and Danielle Viau of Tourism Montreal. Keith Roberson of IWA was the project manager and Margaret Bates of Australia was the Professional Conference Organizer.

There were over 4000 participants including 2 400 registered delegates. Over 1100 platform presentations were made in 16 parallel sessions. The poster session was very successful and included well over 500 communications. Thirty-four IWA specialist groups held sessions. The Palais reports that there were economic benefits for Canada of 6000000 \$.

Environment Canada was the institutional sponsor. We have Chris Marvin, John Lawrence, and John Carey to thank for this participation. They put in lots of hard work to make this happen. ITT, Suez, Veolia were principal sponsors. The recruitment of the principal sponsors was the responsibility of Paul Reiter of IWA headquarters. The recruitment of the Gold sponsor was a shared responsibility with IWA. We were able to recruit four Gold sponsors Canadian utilities, CDM, Halcrow, and the Oil Sands Developers Group Industrial Forums

There were eight keynote speakers including John Carey of the CAWQ and Bill Cosgrove from Quebec.

The technical program was organized by the Technical Program Committee and was chaired by Norbert Jardin of Germany and included the participation of Yves Comeau of the CAWQ and Wolf Keller of the CWWA.

The entertainment programme was brilliant. It included a concert by the Canadian Brass at the Notre Dame Basilica at the Tuesday cultural event. The banquet was on Thursday evening and the fine meal was followed by a performance of the Cirque Éloize.

Over 60 student volunteers assisted with the organization of the event. They were under the direction of Majdala Mansour-Geoffrion of the CAWQ and École Polytechnique. They came from universities across Canada and had the opportunity to assist at this very large international event. The exhibition was a grand success with over 350 exhibitors from Canada, North America and the world. Roy Agterbos of IWA was in charge. A number of special event were held. The Young Water Professionals (YWP) held workshops, social events and event designed to favour employment for these up and coming young professionals.

The first contingent of IWA fellows was introduced. Dr. Peter Vanrolleghem of the CAWQ and University of Laval was honoured on this occasion. IWA Project Innovations Awards night was held at a site in the old port. Rajesh Tyagi of the CAWQ was honoured at the event. Yves Comeau organized five industrial tours. They were held on Friday September 25 with good participation.

We should all be proud of the role we played in bringing this important even to a successful conclusion. The agreement negotiated with IWA for revenue sharing from the World Water congress generated over \$100,000 in revenue for CAWQ.

## **BOARD MEMBERS OF THE CAWQ**

The Board of Directors of the CAWQ is comprised of the Executive Committee, Regional Directors and other board members listed below. All are volunteer positions filled through procedures outlined in the Bylaws of the CAWQ.

### **2010 EXECUTIVE COMMITTEE**

### **2010 REGIONAL DIRECTORS**

*President*

**R.L. Droste**, Department of Civil Engineering,  
University of Ottawa, Ottawa, Ontario

*Vice-Presidents*

**P.A. Vanrolleghem (Eastern Region)**, Département  
Génie Civil Pavillon Pouliot, Université Laval,  
Québec City, Québec

**C. Marvin (Central Region)**, Water Science and  
Technology Directorate, Environment Canada,  
Burlington, Ontario

**C. Tiedemann (Western Region)**, EPCOR Water  
Services Inc., Edmonton, Alberta

**E.R. Hall (Pacific Region)**, Department of Civil  
Engineering, University of British Columbia,  
Vancouver, British Columbia

*Secretary*

**R.D. Tyagi**, INRS-Eau, Université du Québec, Sainte-  
Foy, Québec

*Treasurer*

**C. Allain**, Greater Moncton Sewerage Commission,  
Riverview, New Brunswick

**Other Board Members**

**Y. Comeau (past-president)**, Department of Civil, Geological and Mining Engineering, École Polytechnique,  
Montreal, Quebec

J.P. Jones (WWC president), Département de génie chimique, Université de Sherbrooke, Sherbrooke, Quebec

**G. Gagnon (Atlantic Region)**, Centre for Water  
Resources Studies, Dalhousie University, Halifax,  
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**J.A. Nicell (Eastern Region)**, Department of Civil  
Engineering and Applied Mechanics, McGill  
University, Montréal, Québec

**B. Anderson (Central Region)**, Department of Civil  
Engineering, Queen's University, Kingston,  
Ontario

**W. Parker (Central Region)**, Department of Civil and  
Environmental Engineering, University of  
Waterloo, Waterloo, Ontario

**J. Oleszkiewicz (Western Region)**, Department of  
Civil Engineering, University of Manitoba,  
Winnipeg, Manitoba

*Special Director CAWQ-WEAO*

**C.A. Jefferson**, Warsaw, Ontario

**ADMINISTRATIVE AND OTHER SUPPORT**

In 2010, all administrative work and central symposium organization as well as the Managing Editor duties were amalgamated into a single position that began on April 1. Janet Jardine assumed this position. She is in charge of the Subscription and Membership Office of the CAWQ, located in Burlington, Ontario. The National Water Research Institute provides her with office space and facilities for all tasks. In addition, financial administrative services are provided at no cost 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.