

2022

WEAO ANNUAL REPORT





TABLE OF CONTENTS

2023 AGM Agenda	1
2022 AGM Minutes	2
President's Message	8
WEAO Profile	11
2022 Sponsors	14
2022-2024 Strategic Plan	15
Committee Reports	18



2023 ANNUAL GENERAL MEETING AGENDA

2023 WEOA Annual General Meeting

Sunday, April 16, 2023

4:00 pm - 5:00 pm

Cedar Room, Sheraton Centre Toronto Hotel, Toronto, ON

Agenda:

1. Call to Order
2. Opening Remarks
3. 2022 AGM Minutes
4. 2022-2023 WEOA Board
5. President's Report
6. Treasurer's Report
7. Update from Committees
8. 2023-2024 WEOA Board
9. Request for Motion of Responsibility
10. Adjournment

2022 ANNUAL GENERAL MEETING MINUTES

2022 WEAO Annual General Meeting


Thursday, April 26, 2022 at 12:00 pm

Via Microsoft Teams

In attendance:

Afonso, Nancy
Amerian, Tanin
Anders, Danielle
Anderson, Rob
Baker, Chandra
Begum, Luxmy
Brunet, Carrie
Burrows, Gary
Chang, Sabrina
Charlebois, Gemma
Cholkan, Christina
Cooke-Weaver, Linda
Duane Ford
Fernandes, William
Firman, Marcus

Green, Mike
Henry, Aleah
Iamarino, Dean
Jansen, Natasha
Klassen, Amber
Madden, Larry
Maharjan, Indra
Monczka, Seth
Morales, Jennifer
Qiu, Zhiping
Seggewiss, Graham
Smyth, Shirley Anne
Tamin, Mohammad Noor
Tovilla, Edgar
Tyrrell, Heather



2022 ANNUAL GENERAL MEETING MINUTES

Call to Order

- Meeting called to order at 12:00 p.m. by Dean Iamarino
- 2021 Annual Report distributed to attendees via email if requested.
- Committee Reports were included in the 2021 Annual Report and were not presented.

Introduction of the 2021-2022 Board of Directors and their affiliated organizations.

- Dean thanked the outgoing board members:
 - Edgar Tovilla, Markham – Past President
 - John Presta, Durham Region – WEF Delegate until October 2021
 - Amy Langford, Stantec – Young Professional Representative
 - Tanin Amerian, Suez – Young Professional Representative
 - Deborah Goudreau, City of Hamilton – OWWA Representative
 - John Devlin, Aquafy – OPCEA Representative
 - Gary Burrows, City of London – PWO Representative

2021 Annual General Meeting Minutes

- Motion to accept the minutes from 2021 AGM by Linda Cooke-Weaver, seconded by Shirley Anne Smyth. Carried.

2022 ANNUAL GENERAL MEETING MINUTES

President's Report – Dean Iamarino

Conference

One of the most notable achievements in 2021, was the return and opportunity to host our 50th Annual WEAO Technical Symposium and OPCEA Exhibition in person.

Planning a conference during a pandemic, with ever-changing public health restrictions was a challenge, is an understatement, but the 2021 Conference Committee pulled together this in-person event that allowed delegates and exhibitors to meet for the first time in 2 ½ years. There were 288 registered delegates in attendance, as well as 107 exhibit booths. And for the first time, exhibitors could purchase two booths. 92 technical papers that were presented during 24 sessions. The Member Appreciation Reception was introduced as a new networking opportunity at the conclusion of the conference. The WEAO Board sends a big thank you to Chantelle Bazowsky, 2021 Conference Chair, and the entire conference committee for pulling off such a successful event that exceeded expectations in every way.

Operations Challenge

Although the excitement and energy of this event was missed at last year's conference, the operations challenge committee did an amazing job in organizing the first Mobile Ops Challenge. WEAO's Operations Challenge Committee visited the three competing teams at their location and the two-person teams conducted 3 out of the 5 events (Process Control, Laboratory, and Collections). The top two teams were Peel Connoisseurs and Durham Sludgehammers.

2022 ANNUAL GENERAL MEETING MINUTES

President's Report – Dean Iamarino

Webinars

Our technical committees were also very busy last year hosting 19 Technical Webinars and our first Operator Training Webinar. Young Professionals hosted eight events – Two technical, one professional development and six social events, two of which they were able to hold in -person (one was at the conference and the other was the Holiday Gathering). Thank you to the 77 speakers who provided their time and expertise for these events. Also thank you to the countless volunteers from our Committees and our WEAO staff (Heather and Jennifer) that spent time organizing and hosting these events.

Sponsorship

The WEAO Board would like to express our appreciation and recognize all the sponsors that continued to support our events both in-person and virtual. The new sponsorship program was rolled out for 2021 and included new ways of recognizing our sponsors under the event formats we had to adopt and may continue to use in part moving forward. As with any new program, there were some lessons learned and a survey was sent out to the Sponsors to get additional feedback.

2022 ANNUAL GENERAL MEETING MINUTES

President's Report – Dean Iamarino

Strategic Plan

Another major accomplishment in 2021 was the development of WEAO's three-year Strategic Plan. With all the uncertainty around COVID, and prioritizing the mitigation of impacts to our Association in 2020, the development of WEAO's strategic plan was delayed but successfully delivered in 2021 to create our 2022-2024 Plan. A big thank you to WEF's Kelsey Hurst and Brad Lovett, who facilitated our virtual workshops alongside our CAO Heather Tyrrell. Also, thank you to the Board for all the great discussions and passion put into creating a strong and relevant plan. Here is an overview of the WEAO 2022-2024 Strategic Plan:

Vision

A trusted community of diverse leadership ensuring and promoting a vibrant Ontario water environment

Mission

As Ontario's water sector leader, we connect members, the industry, and the public through education, training, and networking to collectively ensure a resilient water environment

Values

Leadership; Knowledge; Innovation; Collaboration; Mentorship; Inclusiveness

Three Strategic Objectives were identified:

- Membership
 - Promote membership retention and growth
 - Foster Diversity, Equity, and Inclusion within WEAO
- Volunteer Engagement
 - Develop a volunteer program that is valuable and relevant to members
- Events & Training
 - Establish WEAO as a source of Professional Development for all members

2022 ANNUAL GENERAL MEETING MINUTES

Treasurer's Report – Danielle Anders

- Net assets: \$754,929
- Cash assets: \$754,881

\$700,000 is the target set for operation reserve, representing one year of expenses.

Motion to appoint Clarke Pollard Gagliardi Navickas LLP as accounting firm for 2022 by Linda Cooke-Weaver. Seconded by Carrie Brunet. Carried.

Introduction of the 2022-2023 Board

- Incoming Vice President – Danielle Anders
- Directors – Aleah Henry and Natasha Jansen
- Young Professional Chair – Sabrina Chang
- Young Professionals Vice Chair – Amber Klassen

Representatives:

- Ed Bertolo – OWWA Representative
- Gary Fricke – OPCEA Representative.
- Richard Szigeti – WEF Delegate in October.
- Jeff Van Andel – Professional Wastewater Operators (PWO) Representative

Adjournment

- Motion to Adjourn 2022 Annual General Meeting at 12:26 pm by Linda Cooke-Weaver.



PRESIDENT'S MESSAGE

It has truly been an honour to have served as the President of WEAO for the 2022-2023 term. It was a transformative year as we emerged from the Covid-19 pandemic with different perspectives, rethinking how we work and what we value. The dedication and commitment of our members, volunteers and staff has been extraordinary and has inspired me throughout my term. This community is the foundation of what makes WEAO so great, and we would not be where we are now without all of you and your contributions to this association!

Looking back, there have been so many notable achievements this past year, including two tremendously successful conferences – the WEAO Conference from June 19th to 21st , and the Canadian Residual and Biosolids Conference from September 18th to 21st; the Student Design Competition team (University of Waterloo) capturing first place at WEFTEC; Annabelle Rayson (Canadian Stockholm Junior Water Prize winner) going on to win the international competition in Stockholm; the Durham Sludgehammers competing in the inaugural Operations Challenge at the International Water Association Conference in Copenhagen; our Public Engagement and Education Committee representing WEAO at six regional science fairs; a very successful and fulsome fall technical seminar series; lots of social networking events; and the list goes on!

This was the first year since the pandemic where all our regular programming was back and in person, and every event proved to be a memorable one. The recurring theme I heard when speaking to attendees after the events was how much everyone missed these opportunities to connect and discuss key topics in our industry. To all the volunteers, presenters, session chairs, sponsors, exhibitors, and attendees – thank you for bringing your stories and ideas, and thank you for your desire to share your knowledge and experiences with each other.



PRESIDENT'S MESSAGE

The Board has worked on several initiatives this past year and we continue to be laser-focused on delivering the action items outlined in our 2022-2024 Strategic Plan. Since diversity, equity and inclusion (DE&I) is such a fundamental priority for the Board, we have engaged an external consultant, Pillar Consulting, to support the development of a DE&I Strategy, including setting strategic priorities and objectives. I want to reiterate that we want everyone in our association to grow, feel included, and feel appreciated. Other items to highlight include the formation of a new Membership Committee – which has been created to improve member retention, growth, benefits, and engagement – and the formation of an Awards Committee to evaluate the current awards program and develop a valuable and relevant volunteer appreciation program.

Furthermore, ensuring our policies and procedures represent sound fiscal and operational governance continues to be a focus for the Board. In December, we announced the adoption of a WEAO Code of Conduct. We are committed to providing a professional, safe, and welcoming environment for everyone participating in our activities. In addition, I'm happy to announce that we will be re-initiating the WEAO Grant Program in 2023 after a strong fiscal performance in 2022. This program was established for when WEAO has an operating surplus and exceeds targeted reserves, and it aims to support our 17 Committees by providing grants to support strategic initiatives that contribute to the betterment of our association.

As we look towards the future, the Board of Directors of both WEAO and OWWA have reached an agreement to host a Joint Conference & Trade Show in 2024, from May 6th to 8th in Niagara Falls. The Boards believe that the joint event will deliver substantial, equal benefits to both organizations and provide exceptional value to our respective members. Planning for the joint event is underway and additional details will be shared as they become available.

PRESIDENT'S MESSAGE

Another important item to note is that WEAO's lease terminated on February 28th, 2023. As such, the Board has voted to use a hybrid work model moving forward, which will consist of a virtual office, and offsite meeting rooms and storage space. Things will look a little different, but we feel this provides our committees with the most flexibility, giving them the tools they need to thrive and align with the "new way of doing business."

On behalf of the Board, I want to extend our immense gratitude to our 17 Committees, the Committee Chairs, and the large number of volunteers who have contributed their time and effort to deliver the outstanding events and services that WEAO is known for. I want to reiterate how much we value and rely on our dedicated volunteers and we count ourselves extremely lucky to have such an engaged membership. We would also like to thank the employers of all our valuable volunteers, without whose support, we would not be able to run our many initiatives

I want to personally thank each member of the WEAO Board of Directors, and our WEAO staff Heather and Jennifer – they consistently demonstrate passion and commitment to the industry and work so hard to support and improve our amazing association! I look forward to continuing to work with the WEAO Board and supporting the incoming President, Danielle Anders, as she leads the association for this coming term. It's been such a privilege to have been your President during this past year, and I'm so excited to see what the future holds for WEAO.

Sincerely,



Nancy Afonso
WEAO President

WEAO PROFILE

The Water Environment Association of Ontario (WEAO) is an incorporated, not-for-profit, technical association of approximately 1,000 environmental engineers, scientists, operators, and others from consulting companies, municipalities, industry, equipment suppliers and government agencies. Originally formed in 1971 as The Pollution Control Association of Ontario (PCAO), the association changed its name in 1993 to the Water Environment Association of Ontario.

WEAO organizes an annual conference, technical seminars ,and workshops to inform its members and others of the constantly changing developments in environmental technology. WEAO publishes a quarterly magazine, “INFLUENTS”, to report on WEAO activities and related environmental initiatives.

WEAO is a member association of the Water Environment Federation (WEF), based in Alexandria, Virginia. Members of WEAO can also become members of the Water Environment Federation (WEF) based in Alexandria, Virginia.

WEAO is a member of the Canadian Water and Wastewater Association (CWWA).





WEAO PROFILE

Operation of the Executive

The affairs of the WEAO are administered by a Board of Directors that is comprised of:

- President
- Vice-President
- Past President
- Treasurer
- Secretary
- Two WEF Delegates
- One CWWA Representative
- One Professional Wastewater Operators (PWO) Representative
- Two Young Professional representatives
- Six Directors
- WEAO's Chief Administrative Officer

The Board appoints the two WEF Delegates, and the CWWA Representative as required, and each serves a three-year term. Two Directors, the Vice President, and one Young Professional representative are elected annually by the membership. Nominees for the WEAO Board of Directors are drawn from the membership; nominees. The Vice President automatically assumes the Presidency after one year in office.

WEAO PROFILE

2022-2023 Board Members



President

Nancy Afonso
City of Toronto

Vice President

Danielle Anders
GM BluePlan

Past President

Dean Iamarino
Region of Halton

Treasurer

Chandra Baker
Region of Halton

Director

Carrie Brunet
Region of
Niagara

Director

Anna Cleaver
AECOM

Director

**Linda Cooke-
Weaver**
Wolseley

Director

Indra Maharjan
OCWA

Director

Aleah Henry
IBI Group



Director

Natasha Jansen
City of Ottawa

**YP
Representative**

Sabrina Chang
C3Water

**YP
Representative**

Amber Klassen
Associated
Engineering

WEF Delegate

Erin Longworth
CIMA+

WEF Delegate

Richard Szigeti
City of Toronto

**CWWA
Representative**

**William
Fernandes**
City of Toronto

**PWO
Representative**

Jeff Van Andel
City of Toronto

**OPCEA
Representative**

Gary Fricke
Fresh Water
Solutions

**OWWA
Representative**

Ed Bertolo
Evans Supply
Ltd.



THANK YOU TO OUR 2022 SPONSORS

Thank you for the support from the 2022 WEAO Sponsors:



STRATEGIC PLAN 2022-2024

Vision

A trusted community of diverse leadership ensuring and promoting a vibrant Ontario water environment.

Mission

As Ontario's water sector leader, we connect members, the industry, and the public through education, training, and networking to collectively ensure a resilient water environment.

Values





STRATEGIC PLAN 2022-2024

Strategic Intentions

- **1. Membership**
 - **Goal:** Promote membership retention and growth
 - **Objectives:**
 - Ensure the membership database includes information that can be used to analyze and react to trends
 - Improve communication regarding the value of WEAO membership
 - Develop innovative ways to recruit and maintain membership
 - **Goal:** Foster Diversity, Equity and Inclusion within WEAO
 - **Objectives:**
 - Hold virtual and in-person meetings with the Board and formulate recommendations to the Committees
 - Develop Diversity, Equity and Inclusion principles for the betterment of the Association
 - Establish a Taskforce to develop a DE&I strategy
- **2. Volunteer Engagement**
 - **Goal:** Develop a volunteer program that is valuable and relevant to members
 - **Objectives:**
 - Optimize committee membership to ensure members engage in valuable volunteer experiences
 - Outline the roles and responsibilities specific to each committee
 - Conduct an annual Orientation for all committee members in order to empower you in your roles
 - Develop a plan to transition emerging leaders into leadership roles
 - Assess existing awards and acknowledgements, and explore new opportunities to recognize outstanding WEAO members
 - Develop a volunteer program which outlines appreciation opportunities and how members can get involved



STRATEGIC PLAN 2022-2024

Strategic Intentions

- **3. Events & Training**
- **Goal:** Establish WEAO as a source of Professional Development for all members
 - **Objectives:**
 - Offer three operator training sessions every year
 - Share lessons learned from education events during Committee Chair meetings
 - Build an archive of past education events on the WEAO website

ASSET MANAGEMENT COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

Dedicated to the promotion, education and information exchange of the best asset management and sustainability practices in the Municipal Water and Wastewater industry.

2022 Committee Members

Name	Role	Organization
Kevin Morawski	Chair	WSP
Dillon Occleston	Vice-Chair	Greatario Engineered Storage Systems
Akli Ben-Anteur	Committee Member (Past Chair 20XX)	City of Greater Sudbury
James Jorgensen	Committee Member (Past Chair 20XX)	GM Blue Plan
Matthew Grekula	Committee Member	RV Anderson
Mateusz Lewandowski	Committee Member	TY Lin
Mike Garaci	Committee Member (Past Chair 2019/2020)	Xylem Inc.
Natalie Ribic	Committee Member (Past Chair 2020/2021)	Halton Region
Ramona Mirtorabi	Committee Member	City of Toronto
Gillian Harris	Committee Member (Past Chair 2021/2022)	Town of Lincoln
Danielle Anders	WEAO Board Liaison	GM Blue Plan
Angelika Massotti	OWWA Board Liaison	York Region
Yvonne Zhang	OWWA YP Liaison (2022/2023)	TY Lin
Emily Curling	OWWA YP Liaison (2021/2022)	RV Anderson

ASSET MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- 2 Webinars
 - November – W&WW Facility Assessment Strategies
 - October - Panel Discussion: Managing Your Water Storage Tanks from the Ground Up: Protective Coatings, Life Cycle Assessment and Best Practices for Tank Design
- Participating in WEAO and OWWA Conference



Goals for 2023

- Continue outreach through 2 webinars – 1 hosted by WEAO and 1 hosted by OWWA
- Contribute to Influent and Pipeline
- Contribute to and participate in the WEAO and OWWA Conferences
- Collaborate and Coordinate webinar topics with SMART Water Committee
- Recruitment of new members from Municipal sector

Planned Activities in 2023

- December Webinar through WEAO
- October Webinar through OWWA

CLIMATE CHANGE COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

Climate change is one of the most critical issues facing the water sector today. The science around mitigation and adaptation for the water sector is complex and constantly evolving. The goal of the OWWA/WEAO Climate Change Committee is to prepare our industry for what lies ahead. We do this by informing OWWA and WEAO members about the most effective ways to integrate climate change into water sector activities.

The OWWA/WEAO Climate Change Committee gathers and fosters water sector climate expertise in the areas of climate mitigation (reducing GHG emissions) and climate adaptation (preparing for the impacts of climate change). We do this to deliver resources, tools, and best practices to OWWA and WEAO members. Our climate mitigation mandate is to help the water sector understand greenhouse gas (GHG) emissions and the most effective ways to reduce them. Our climate adaptation mandate is to help the sector prepare for the impacts of climate change in Ontario.

We are a dedicated group of volunteers who strive to bridge the gaps between water/wastewater engineering, climate science, and GHG accounting. Our vision is for climate change considerations to become embedded in every part of the Ontario water infrastructure cycle.

2022 Committee Members

Yifan Li (Meeting/Committee Chair)
Jeremy Kraemer (Vice Chair)
Merissa Beedham
Anna Cleaver
Emily Zegers
Paul Marsh
Tom Woodcock
Maika Pellegrino

Carolyn Lee
Jason Boomhour
Benjamin Beelen
John Duong
Praneeta Moti
Michelle Albert
Jennifer Burch
Peter Nimmrichter
Huda Oda

Kathleen Farrow
Dania Chehab
Max Rao
Indra Maharjan
Chris Jiang

CLIMATE CHANGE COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Joint seminar with WWT&T, November 17th, Mississauga Grand



Goals for 2023

- Launch a GHG Inventory Tool
- Webinar to educate industry on the GHG tool
- In person seminar in fall 2023 administrated through OWWA
- Facilitate Climate Change award
- Creating a fact sheet with R&B Committee

Planned Activities in 2023

- Deliver in person seminar in November, 1st 2023
- Organize three (3) Technical Sessions for Conference May 2023

COLLECTION SYSTEMS COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

Provide opportunities to exchange knowledge and information pertaining to the analysis, planning, design, construction, operation, maintenance and management of wastewater and stormwater collection and conveyance systems.

2022 Committee Members

Name	Role	Organization
Anthony Abbruscato	Chair	DECAST Ltd./RATS Inc.
Seth Monczka	Vice Chair	Region of Peel
Jega Jeganathan	Past Chair	The Municipal Infrastructure Group
Dave Eadie	Member	Stantec Consulting Ltd.
Matthew Ballaban	Member	GM BluePlan Engineering Ltd.
Jeanne Thomsen	Member	Region of Peel
Paul Imm	Member	Forterra Pipe & Precast
Harshad Shetye	Member	WSP
Nahed Ghbn	Member	City of Brantford
Ajay Puri	Member	Region of Peel
Lijing Xu	Member	City of Markham
Farshad Salezhadeh	Member	Region of Peel
Robert Muir	Member	City of Markham
John Bougadis	Member	City of Ottawa
Brian Worsley	Member	Town of the Blue Mountains
Jesse King	Member	GM BluePlan Engineering
Diego Prashad	Member	C3 Water Inc.
Niall Quinlan	Member	I2S Inc.
Cassie Liu	Member	Region of York
Matthew Malone	Member	Civica Infrastructure Inc.
Mahrukh Jawaid	Member	Region of York
Nancy Afonso	Board Rep	City of Toronto

COLLECTION SYSTEMS COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- CSC hosted one (1) technical fall seminar in October as follows:
 - October 19, 2022 – Infrastructure Resiliency, Mitigation, and Adaptation
 - Using Acoustics to Enable Condition Based Maintenance in Gravity Sewer Systems; by Blake Tonogai (RATS Inc.)
 - Northeast Storm System Vulnerability, Resiliency and Adaptive Measures - Brantford Case Study; by Nahed Ghbn (City of Brantford)
 - I&I Investigations in “Downtown” Areas; by Niall Quinlan (I2S Inc.)
 - Time to Get Real – Reflections on the Planning and Implementation of Real-Time Control in Ontario; by Adrien Comeau (Stantec Consulting Ltd.)
 - York Region’s Inflow and Infiltration Reduction Standard for Sewers Servicing New Development; by Cassie Liu (Region of York)
 - Impact of COVID-19 on Wastewater Flow Patterns: Examples from the City of Toronto; by Matthew Malone (Civica Infrastructure Inc.)
 - Deciding to Use 2D Modelling in Downtown Toronto; by Philip Gray (Arcadis IBI Group)
 - Trunk Sewer Rehabilitation Decision Framework; by Jayne Harris (GM BluePlan Engineering)



COLLECTION SYSTEMS COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- CSC facilitated four (4) session tracks at the 2022 WEAO Technical Symposium and OPCEA Exhibition, in June, as follows:
 - June 21, 2022 (Morning) – I/I & Flow Monitoring
 - June 21, 2022 (Afternoon) – Pumping Stations
 - June 22, 2022 (Morning) – Collection Systems– Modelling
 - June 22, 2022 (Afternoon) – Management of Collection Systems
- Four (4) new members joined the Committee in 2022: Niall Quinlan (I2S Inc.), Cassie Lieu (Region of York), Matthew Malone (Civica Infrastructure Inc.) and Mahrukh Jawaid (Region of York).
- No members left the Committee in 2022.

Goals for 2023

- Membership Growth and Participation
 - Improve succession planning and volunteerism; actively solicit new volunteers to replace long-standing members who cannot continue to commit their time.
 - Work with the Young Professionals committee to migrate interested YPs to CSC.
 - Establish volunteers in applicable subcommittees to effectively realize CSC goals.
- Advocating for the Collection Systems Industry
 - Contribute technical input/guidance on behalf of the Collection Systems industry, through participating in formal review of guidance manuals, documents and/or policy statements, as opportunities allow.
 - Be the voice for the municipal collection systems industry.

COLLECTION SYSTEMS COMMITTEE

2022 ANNUAL REPORT

Goals for 2023 Continued

- Networking and Social Interaction
 - Increase in-person attendance at CSC meetings once restrictions are relaxed.
 - Increase inter-committee engagement/communications to seek out collaboration opportunities (i.e. Stormwater Management Committee).
 - Provide Collection Systems presence at external agency technical events.
 - Better integrate with the WEF Collection Systems Committee members/initiatives.
- WEAO Annual Conference and Fall Seminar
 - CSC to engage in outreach and promotion efforts to encourage more parties to submit their work.

Planned activities for 2023

- Attract new volunteers and increase engagement between Committee Chairs.
- Continue providing technical input/guidance to regulatory agencies' initiatives as well as standards as they arise.
- Hold Fall Specialty Workshop on September 13th, at Mississauga Grand Banquet Hall.
- Contribute content to the WEF Collection Systems MEA publication.
- Continue conversations with WEF CSC for hosting a potential WEF Collections Conference, in Ontario, for years 2024-onward.
- Hybrid 2023 CSC meetings.

CONFERENCE COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

To plan and facilitate the WEAO Annual Technical Symposium and OPCEA Exhibition.

2022 Committee Members

Name	Role	Organization
Erin Longworth	Chair	Halton Region
Rob Anderson	Technical Program	C&M Environmental
Chantelle Bazowsky	Signage	GFL Environmental
Michael Bissauge	OPCEA Exhibition	VAHN-TECH International
Linda Cooke-Weaver	Board Liaison	Wolseley Canada
John Devlin	Local Arrangements	Aquafy Water Technologies
John Duong	Conference App	Halton Region
Jesus Flores	Water for People	Jacobs
Natasha Jansen	Social Media/Awards	City of Ottawa
Jeff Johnson	Ops Challenge	ASL Roteq, Div. of John Brooks
Amy Langford	Social Media	Stantec
Sandy Naime	Technical Program	GM BluePlan
Max Rao	OPCEA Exhibition	Aquafy Water Technologies
Richard Szigeti	Audio Visual	City of Toronto
Krista Thomas	Ops Challenge	City of Peterborough
Jason Vandale	Water for People	Victaulic
Dodge Yu	YP Liaison	University of Waterloo

CONFERENCE COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- 2022 WEAO Technical Symposium and OPCEA Exhibition, June 19-21 at the RBC Place London, and Doubletree by Hilton Hotel
 - The net income for the 2022 Conference was approximately \$223K versus the budgeted net income of \$167K. The final income was \$56K over the budgeted net income.
 - 395 registered delegates for the 2022 Conference. This includes full registrations, and one day registrations for professionals, young professionals, and students.
 - 115 Exhibit booths were sold for the OPCEA Exhibition, with 296 Exhibit Booth Staff.
 - 92 technical papers were presented throughout 24 sessions.
 - 4 Operations Challenge Teams competed.



Goals for 2023

- Facilitate a successful in-person WEAO Technical Symposium and OPCEA Exhibition.

Planned Activities for 2023

- WEAO 52nd Annual Technical Symposium and OPCEA Exhibition, April 16-18 at the Sheraton Centre Toronto Hotel, Toronto, ON.

INTELLIGENT WATER SOLUTIONS COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

The committee seeks to educate WEAO membership on the use of machine learning, artificial intelligence, operations research and optimization techniques to solve water and wastewater problems.

The objectives of the committee are to:

- 1. Demystify Machine Learning (ML), Artificial Intelligence (AI) and other Techniques:** Provide WEAO membership with a basic understanding of what these terms mean, applications within the water and wastewater industry.
- 2. Democratize ML and AI:** Provide WEAO membership with access to existing free resources, tools and templates to apply these techniques and models to solve problems.
- 3. Expand WEAO membership:** Attract data scientists, software developers, mathematicians and other professionals who are interested in ML and AI to become WEAO members and to apply their knowledge to problems in the water and wastewater industry.
- 4. Foster the development of an open data repository for water and wastewater:** The committee would seek to facilitate the creation of a data repository that WEAO members can utilize to support ML and AI applications.

INTELLIGENT WATER SOLUTIONS COMMITTEE 2022 ANNUAL REPORT

2022 Committee Members

Name	Role	Organization
Gustavo Arvizu	Chair	CIMA+
Jesse King	Vice-Chair	GM BluePlan
Alex Ding		Civica
Andrew Inman		GM BluePlan
Anum Khan		Urban Water TMU
David Baldessarra		GM BluePlan
Dean Rudd		Endress & Hauser
Davesh Shah		City of Ottawa
Imran Motala		Region of Peel
Jeff Buchyns		Halton Region
Jon Watson		Eramosa
Kamran Rahnama		Ainley Group
Khalid Kaddoura		AECOM
Mahnaz Zare		SENTRY
Matt Phillips		C3 Water
Mehrdad Varedi		Waterlix
Mike Green		Hach
Nicole Pasch		Xylem
Ramona Mirtorabi		City of Toronto
Tianchen Dong		RV Anderson
Tim Abbott		AECOM

INTELLIGENT WATER SOLUTIONS COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Continued recruitment of members.
- Hosted in person seminar on October 26, 2022. We had 70 attendees and generated \$49 of profit for WEAO.
- Edited and contributed to the winter issue of the Influent Magazine focused on "Machine Learning, Artificial Intelligence and Engineering Software."
- Organized and facilitated the two Intelligent Water Solutions technical sessions at the 2021 Annual WEAO Conference in London, Ontario.
- Published a new resource directory on the WEAO website. The directory includes a list of software vendors/platforms and service providers focusing on various applications of AI/ML to the water and wastewater industry.
- Launched the first Ontario-based Intelligent Water Systems Challenge. Received expressions of interest from five (5) teams and the top three (3) teams will present at the 2023 Annual WEAO Conference in Toronto, Ontario.
- Held an end of year social event with members of the committee at DoorFiftyFive.



INTELLIGENT WATER SOLUTIONS COMMITTEE 2022 ANNUAL REPORT

Goals for 2023

- Organize and host an in-person seminar focused on Intelligent Water Solutions. Increase attendance and revenue.
- Work on developing an open-data repository to support future digital solutions.
- Continue updating directory of resources/list of ML vendors/consultants on committee's page on WEAO's website.
- Expand directory of resources to include list of universities in Ontario and Canada with research on intelligent water solutions.
- Expand directory of resources to include case studies of digital solutions from municipalities and utilities.
- Continue contributing articles to the Influent magazine.
- Host IWS-themed presentation session during the 2023 annual WEAO conference.
- Host the presentation of Intelligent Systems Challenge finalists at the 2023 annual WEAO conference and present award to the winner during the Monday luncheon.
- Launch the 2023 Intelligent Water Systems Challenge and expand participation by encouraging submissions from partnerships between consultants, municipalities, academia, service providers, etc.
- Encourage and support finalists of 2022 Intelligent Water Systems Challenge to submit their project to WEF's Intelligent Water Challenge.
- Increase sponsorship revenue for committee to \$20,000.
- Explore potential for collaboration with other committees such as the Young Professionals, Collection Systems, Stormwater, Wastewater Treatment and Technologies and Asset Management.

INTELLIGENT WATER SOLUTIONS COMMITTEE 2022 ANNUAL REPORT

Planned Activities for 2023

- Organize seminar (tentatively set for October 26, 2023).
- Reach out to academia to create mapping of research programs focusing on AI/ML and identify opportunities for partnerships on applications in the water and wastewater industry.
- Seek authors to submit articles to Influent and to submit abstracts to WEAO conference.
- Host of Technical Session and presentation of Intelligent Water Systems Challenge finalists at 2023 WEAO Conference.
- Increase the number and quality of Intelligent Water Systems Challenge submissions.
- Establish collaboration with OWWA's Automation Committee.
- Publish case studies related to intelligent water solutions from Ontario municipalities and utilities on WEAO's website and develop articles for the Influent Magazine.
- Organize a webinar series showcasing technologies and service providers listed in the IWS directory.
- Work on developing an open-data repository to support future digital solutions – reach out to National Benchmarking Initiative.

MAGAZINE COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

2022 Committee Members

Name	Role	Organization
Amanda Laciosek	Member	H2Flow
Reba Lewis	Managing Editor	Craig Kelman and Associates
Cristina Alfonso	Committee Editorial	AECOM
Dale Jackson	Member	ACG - Envirocan
Edris Madadian	Member	University of Waterloo
Gary Burrows	Member	City of London
Gemma Charlebois	Member	MTE Consultants Inc.
Gustavo Arvizu	Editorial	CIMA+
John Devlin	Editorial	Aquafy Water Technologies
Kimberley Thomas	Member	Peel Region
Meghal Patel	Member	RV Anderson
Matthew Malone	Member	CIVICA
Narasimman	YP Editorial	University of Waterloo
Lakshminarasimman		
Natasha Jansen	Board Liaison	City of Ottawa
Preya Balgobin	Theme Editorial	Ainley Group
Tonia Van Dyk	Member	C&M Environmental Technologies Inc
Craig Wardlaw	Editorial Lead	National Research Council
Anahita Rabii	Chair	Anaergia Inc.



MAGAZINE COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Publishing 2022 quarterly issues of Influent Magazine
- Modifying survey content and submitting to the membership; specifying 2023 themes
- Allocating an issue regarding the first nations and remote communities water and wastewater issues through soliciting articles with the theme “First Nations Engineering and Initiatives to Improve Water/wastewater in Isolated Communities”
- Addition of the Next Issue section to the Magazine to inform readers and members on the upcoming issue submission date and theme
- Committee online MS Teams meetings discussing the task assignments for the quarterly issues

Goals for 2023

- Publishing 2022 issues of Influent according to the specified themes decided by the committee members considering feedback from the readers
- Increasing magazine’s viewers and revenue through advertising
- Continue to maintain young professional’s contributions and conference articles to the magazine
- Introducing next year themes with consideration of alternative and innovative water /wastewater treatment and monitoring techniques
- Including more theme articles related to alternative treatment technologies, monitoring techniques and innovative solutions to water/wastewater issues to exchange ideas for solving real life water/wastewater problems

Planned Activities for 2023

- Setting up at least one in-person committee meeting while continue to have the regular online meetings
- Submitting a survey in mid-summer to WEAO members for deciding on the following year’s themes of Influent
- Supporting WEAO’s publicities and upcoming conferences

MEMBERSHIP COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

The membership committee was formed to guide WEO to meet its strategic intentions and play a part in enhancing the value of membership. Committee representation is from across the organization including, Students, Young Professionals, Consultants, Operators, Suppliers and Government employees. Representation is important to ensure all member voices are being heard.

Strategic Goals

- Promote Membership Retention and Growth
- Foster Diversity, Equity, and Inclusion within WEO

2022 Committee Members

Name	Role	Organization
Danielle Anders	Chair	GM BluePlan Engineering
Amr Melligy	Member	Wolseley Inc
Dave Thiffault	Member	Peel Region
Maryam Shahab	Member	GHD
Nidal Dhailieh	Member	Civica
Leah Walter	Member	City of Kitchener
Vardhini Parvatham	Member	TYLin Inc
Nick Romero	Member	MTE
Peter Davey	Co-Chair	ESE Mag
Ana Edwards	Member	PVS Chemicals
Peter Frick	Member	IDEX Corp.



MEMBERSHIP COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Committee was formed, chair was assigned from Board based on membership being a strategic area for WEAO
- Eblast to membership to recruit members
- Developed membership benefit promo sheet – 1-pager
- Developed committee mandate and objectives
- Assigned sub-committees to address Strategic Plan items
 - Sub-committees met to brainstorm next steps for Strategic Plan items

Goals for 2023

- Establish email marketing campaign for new and non-members
- Co-marketing agreement with at least one industry or professional association that is complimentary to WEAO

Planned Activities for 2023

- Update WEAO Benefits flyer with professional designer
- Develop email templates and campaigns for new WEAO members and non-member event attendees
- Develop co-marketing proposal for WEAO board to review

OPERATIONS CHALLENGE 2022 ANNUAL REPORT

Committee Mandate

The Operations Challenge Committee (OCC) has the primary role of developing, conducting and promoting various activities that demonstrate and enhance the skills and knowledge of wastewater operators and other professionals in the wastewater industry. This is done through the Operations Challenge skills competition, taking place at the annual WEAO conference. There are five competitions that take place under our committee, including process, collections, safety, laboratory, and maintenance. These competitions are designed to test the diverse skills required for safely and successfully operating and maintaining wastewater treatment plants and their collection systems.

Our committee also serves as an organizer for the Professional Wastewater Operator (PWO) Tour and Technical Session as well as the Totally Wasted Game Show (TWGS).

2022 Committee Members

Name	Role	Organization
Krista Thomas	Committee Chair	City of Peterborough
Barry Hughes	Safety Coordinator	Region of Durham
Jeff Johnson	Maintenance Coordinator	John Brooks
Kent Keeling	Lab Coordinator	City of Peterborough
Paul Bongelli	Collections Coordinator	City of Toronto
Hany Jadda	Process Coordinator	Lexicon Environmental Consulting Services
Mike Pelzowski	Safety Assistant	Region of Durham
Stefan Fediw	Maintenance Assistance	John Brooks
Ken Ryder	Collections Assistant	Conval Process Solutions
Anna Lacourt	Process Assistant	York Region
Daryl Stevenson	TWGS	City of Peterborough
Carrie Brunet	Board Liaison	Region of Niagara
Garry Burrows	Awards Only	City of London
Jeff VanAndel	PWO Rep	City of Toronto
Nathaly Villada	PWO/YP Liason	City of Toronto
Derek Godfrey	Member at large	Xylem

OPERATIONS CHALLENGE 2022 ANNUAL REPORT

2022 Activities

- Krista Thomas began role as new Committee Chair
- A successful post-Covid full scale Ops Challenge event was held in London with 4 teams competing.
- New Kahoot based TWGS was quite popular and will be used again in 2023.
- Durham Region Ops Challenge Team represented Canada in Amsterdam for the IWA World Water Challenge Competition
- New members include Anna Lacourt, Nathaly Villada, Mike Pelzowski and Derek Godfrey

Goals for 2023

- Attract new younger members to Ops Challenge committee.
- Find a volunteer to lead social media for Ops Challenge before and during annual conference.
- Continue to recruit new teams for future competitions.
- Prepare new pump event for 2023 Challenge.
- Develop new sponsorship initiatives.

Planned Activities for 2023

- Update and improve Ops Challenge section of WEAO website to make it more user friendly for competing teams and interested future teams.
- PWO tour will take place at Ashbridge's Bay
- New sponsorship activity incorporating TWGS clues into sponsors' booths on tradeshow floor.
- Interested teams will be invited to PWO Meet and Greet and to Ops Challenge for networking and to get a first-hand look at the teams competing.

PROFESSIONAL WASTEWATER OPERATORS COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

Support and grow the wastewater operations trade through training and development opportunities. In addition, grow the presence of operators in the association to guide and lead the industry in a way that supports the front-line personnel involved in the day-to-day decision making at our wastewater treatment plants.

2022 Committee Members

Name	Role	Organization
Jeff Van Andel	Chair	City of Toronto
Chandra Baker	Member	Halton Region
Meagen Davey	Member	Loyalist Township
Duane Forth	Awards Committee Liaison	Veolia
Richard Szigeti	Member	City of Toronto
Lino Zanardo	Member	Peel Region
Carrie Brunet	Member	Niagara Region
Gary Burrows	Member	City of London
Justin Eagles	Member	Town of the Blue Mountains
David Thiffault	Member	Peel Region

PROFESSIONAL WASTEWATER OPERATORS COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Represented the association through the Durham Sludge Hammers at the IWA World Water Congress Operations Challenge
- Hosted a virtual operator training session on Odour Control through OPCEA support



Operator Training Webinar

Thursday, November 24, 2022
11:00 am to 12:00 pm
Microsoft Teams

Odour Control Basics

Goals for 2023

- Improve committee governance through well-defined strategic plan, terms of reference, and committee roles
- Redefine/establish the awards criteria for PWO associated rewards
- Establish additional training and development opportunities for operators
- Increase committee revenue to transition into a self-sustained committee and explore additional funding for operators in Ontario

Planned Activities for 2023

- Operator Webinars
 - March 23 Pumping Station Troubleshooting and Maint.
 - June 6 Introduction to AWWA Valves and Maint.
 - October 19 Energy Savings through Aeration Turbo blower Technology

PUBLIC ENGAGEMENT AND EDUCATION COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

Foster public awareness of WEAO as a reliable and accessible source of technical information. Support water environment education and public engagement through school programs, science fairs, teacher's resources, a podcast and published articles, to promote interest in the water and wastewater industry. Promote the EnviroScape Model as an educational tool. Engage on Canadian Stockholm Junior Water Prize (CSJWP) National Organizing Committee and promote CSJWP in Ontario.

2022 Committee Members

Name	Role	Organization
Kenneth Ryder	Chair	Ontario Clean Water Agency
Amanda Ciosek	Co-Chair	H2Flow Equipment
Cindy Toth	Science Fairs, EnviroScape	Retired
Dean Iamarino	Board Liaison	Region of Halton
Ellen Stitt	EnviroScape	Ontario Clean Water Agency
Ashley Brettell	EnviroScape, Conference	Region of Durham
Amr Melligy	Conference	Wolseley Canada Inc.
Jade Alexander	YP Liaison	Pentair
Ahmed Eldyasti	WWT&T Liaison	York University

PUBLIC ENGAGEMENT AND EDUCATION COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Ken assumed committee chair position, with Amanda continuing in a supportive, mentor role.
- A new YP Liaison volunteered as well existing members continued to increase their engagement in the committee and its activities.
- On-going monthly Committee meetings; development of work plan; actively maintained MS Teams group page to access resources/documents (and historical records)
 - Hosted our first in person meeting since 2019 in December 2022.
- Youth Science Fairs (Spring 2022)
 - Final year of the Virtual Platform
 - Judged and awarded prizes for fairs in: Peterborough / Waterloo-Wellington, York Region, Bay Area (Hamilton), Toronto and Ottawa.
- Enviroscope Model Video Series
 - Prepared for filming in early 2023
 - Sub-committee completed scripts
 - Three Key Topics will be covered in 2023: Water, Wastewater and Biosolids
 - Plan for two additional topics in the future: Stormwater and Rural Communities (Private Wells & Septic Systems)
 - Target audience is Grade 7/8, High School. (To focus on target audience, the following was included:
 - 1. Complement the Grade 7 curriculum for R&B [highlight as per agreed videography funding];
 - 2. Promote the industry to university students [employment awareness];
 - 3. For the general public awareness
 - In-Kind Resources (images, videos) provided by Region of Durham and City of Toronto (Board continuing to welcome all Municipalities to contribute)
- Stockholm Junior Water Prize
 - Annabelle Rayson was selected as Canadian Champion
 - Won the international award awarded in Stockholm

PUBLIC ENGAGEMENT AND EDUCATION COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- INFLUENTS Articles
 - 2022 Science Fairs Overview (Experiences)
- Annual Conference
 - Organized and Chaired Committee Technical Session

Goals for 2023

- Continue well-scheduled routine meetings
- Increase committee membership (YP Liaison and others)
- Chair succession planning – not immediate but inquire who is interested in becoming the next chair in 1-2 years
- Publish more INFLUENTS articles and support others engaged in public outreach to contribute articles.
 - Science Fairs
 - Canadian Stockholm Junior Water Prize
 - EnviroScape Filming
 - Technical Sessions at WEAO conference
- Maintain connections to Science Fairs Canada and judging volunteering
- Continue to promote public engagement and education through activities
- Strengthen connects with other Committees to build upon public outreach (Marketing, etc.)
- New Ideas/Goals/Initiatives (under development / brainstorming) for 2022-2023 work plan; to grow overall platform

Planned Activities for 2023

- Revisit grade 7 biosolids promotion, plan seminars / presentations for in person teacher conferences.
- EnviroScape Model Video series
 - Complete review of scripts
 - Complete filming of series in early 2023

PUBLIC ENGAGEMENT AND EDUCATION COMMITTEE 2022 ANNUAL REPORT

Planned Activities for 2023 Continued

- WEOA Annual Conference Support / Participate - Technical Sessions – Reach out to perspective speakers earlier and diversify invitations:
 - Plan for 2023:
 - Marisa Renn, Region of Peel – Public Education Programs and Initiatives
 - Ashley Brettell, Region of Durham – Enviroscape Programming
 - Lisa Courtney, B. M. Ross and Associates Limited – Public Consultation during Covid
 - Ilmar Simanovskis, Civica Infrastructure - Stakeholder experience- equal access, equal opportunity
- Science Fairs
 - Return to in person volunteer and financially support (special award) (as per approved 2023 Budget) for Niagara Region, Bay Area, Peterborough, Waterloo-Wellington, York Region, Toronto and Ottawa
 - Prepare WEOA Website Feature (link Ontario Science Fair connection to CSJWP) & INFLUENTS Article (following fair season; March/April) featuring/profiling student projects' from special award.
- WEOA podcast
 - Produce pilot episode
 - Get final board approval
 - Produce scheduled episodes
- Canadian Stockholm Junior Water Price (CSJWP)
 - Situation being monitored by Board
 - Actively engaged with YSF Admin Assistant for next steps for 2022
- New Ideas/Goals/Initiatives (under development / brainstorming):
 - Junior Student Operational Challenge
 - Family friendly event possibly attached to Annual Conference (diversity, equity and inclusion supportive)
 - Monthly Educational Podcast (recording via MS Teams; posting available website / social media) and/or Annual Educational Forum
- NOTE: All committee members are welcomed/encouraged to share ideas and feedback any time, to grow PEEC initiatives and overall platform.

RESIDUALS AND BIOSOLIDS COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

The WEAO Residuals and Biosolids Committee has been created to work with the Provincial government, other political jurisdictions and pertinent associations to promote discussions, information exchange, education and best management practices on residuals and biosolids processing and beneficial reuses. As water quality professionals, our mission is to promote responsible and sustainable residuals and biosolids management practices that protect public health and the environment.

2022 Committee Members

Name	Role	Organization
Adriana Hulse	Vice Chair	City of Ottawa
Ajay Singh		Lystek International Inc.
Aleah Henry		Veolia Water Technologies & Solutions
Amber Klassen	YP Liaison	AE
Anthony Aruldoss	WWT&T Liaison	AECOM
Aron Low	Emerging Contaminants Sub-Committee Lead	Ontario Clean Water Agency
Banu Ormeci		Carleton University
Benoit Lebeau		OMAFRA
Dean Iamarino	Education Sub-Committee Lead	Region of Halton
Dominika Celmer-Repin	Research Connection & Fact Sheet Sub-Committees Lead	Region of Waterloo
Dominika Sekula	Biosolids Award Sub-Committee Lead	Region of Peel
Don Ford		Oxford County
Geoff Boyd	Influents Liaison Climate Change Liaison	Walker Environmental
Ignatius Ip		R.V Anderson Associates Limited
Irwin Osinga		JL Engineering
Jeremy Kraemer		

RESIDUALS AND BIOSOLIDS COMMITTEE 2022 ANNUAL REPORT

2022 Committee Members Continued

Name	Role	Organization
Lisa Ross	Committee Chair	CMECP – SWR Divisional
Luxmy Begum		The EcoAmbassador
Mark Janiec		Terrapure Environmental
Mark Knight		Veolia Water Technologies & Solutions
Paul Purser	Annual R&B Seminar Sub-Committee Lead	Veolia Water Technologies & Solutions
Paul Taylor	Residuals and Biosolids Research Fund Sub-Committee Lead/Govt. Affairs Liaison	Bio-En Power Inc
Phil Sidhwa		President, Orgatec Energy Inc.
Praneeta Moti		City of Toronto, Toronto Water
Ryan Prosser		University of Guelph
Sangeeta Chopra	Membership Sub-Committee Lead/Past Chair	Ontario Clean Water Agency
Tihamer Csiba		Dillon Consulting Ltd.
Tom Harz		Walker Industries
Zhiping Qiu		Hatch

2022 Activities

- R&B resources webpage went live the first week of March, 2022.
- WEAO Microplastics Fact Sheet was released and posted on the website.
- Annual Conference in June, 2022
 - The R&B committee are had two (2) sessions with cutting edge technical information, issues, and concerns at the 2022 Annual WEAO Technical Symposium and OPCEA Exhibition.
 - R&B Committee members actively participated as session chairs and technical paper presenters.

RESIDUALS AND BIOSOLIDS COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- 2022 R&B Award.
 - The R&B Full-Scale Operating Biosolids Program Award was awarded to two recipients:
 - Thomas Nutrient Solutions, and
 - Regional Municipality of Niagara
- Canadian National Residuals and Biosolids Conference
 - The bi-annual Canadian residuals and biosolids conference is scheduled to be held on September 18-21, 2022 at the White Oaks Convention Centre, Niagara on the Lake.
 - The conference was a huge success with Record 226 attendees from various provinces in Canada and USA.
 - R&B committee members were actively participating in the conference. Some highlights of the R&B committee members involvements in the conference were as follows:
 - Phil Sidhwa acted as Conference chair.
 - Banu Ormeci was one of the keynotes speakers.
 - Sangeeta Chopra, Paul Purser and Zhiping Qiu were Conference committee members.
 - Luxmy Begum and Jeremy Kraemer were technical paper presenters.
 - Luxmy Begum, Jeremy Kraemer, Sangeeta Chopra, Ajay Sing and Adriana Hulse were technical session chairs and Zhiping Qiu was poster competition evaluator.



RESIDUALS AND BIOSOLIDS COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- This year R&B committee had received two nominations regarding the awards. The award sub-committee had reviewed the two nominations and decided to select Dr. Banu Ormeci for the R&B award in the area of Public Outreach and Knowledge Transfer. Dr. Banu Ormeci's nomination was sent by Dr. Yasser Hassan, Professor in Carleton University.
- R&B sub-committees were revisited-
 - Ten (10) sub-committees were formed that aligned with committees' activities, target and current needs and leads for each sub-committees were assigned.
 - An emerging contaminant sub-committee was formed while keeping PFAS in Biosolid and the recent concern in mind to keep the committee well prepared to fulfill its duties.
- Hot topics presentations – different industry and research groups came and presented to our monthly meetings related to biosolid hot topics. Some of them were research findings related to microplastics, CHAR Technologies related to Pyrolysis etc.
- Three (3) new members were added in the committee in 2022.

Goals for 2023

- Continue engagement with industry leaders and the sector in general via the various conference and committee work outlined below.
 - Supporting WEAO Annual symposium 2023.
 - Continue work on Biosolids Fertilizers Best Management Practice Initiative
 - Organize a workshop at the 2023 WEF Residuals and Biosolids Conference (North Carolina, USA) and in Ontario
- Organize a seminar on updating committee mandate and strategic planning.
 - Committee's mandate will be revisited.
 - Key goal for each sub-committee will be established.
- Refocus on the residual side more to discover the current issues and concern.
- Supporting Ontario Biosolids Council regarding PFAS in Biosolids concern.
- Promote R&B committee to broader audiences including waste management industry and other industries.

RESIDUALS AND BIOSOLIDS COMMITTEE 2022 ANNUAL REPORT

Planned Activities for 2023

- Supporting WEAO Annual symposium 2023.
 - This year we have more submissions than usual, so an extra session for residual and biosolids related topics was added in the conference. In this annual conference R&B committee will have three sessions- PFAS, advanced treatment and sustainable biosolids management. We are expecting a very strong content/powerful presentation at the conference.
- R&B committee will be delivering at least one in person seminar this year in November. Currently we are looking into the feasibility of planning two joint seminars with WWT&T committee. One will be specific to PFAS related issues to both solid and liquid streams and other will be covering other issues related to both the topics.
- The Emerging Contaminants sub-committee will prepare a factsheet on a new emerging contaminant in biosolids and organize a workshop at the 2023 WEF Residuals and Biosolids Conference (North Carolina, USA). A similar workshop will also be organized by them in Ontario with different speakers, either in person or virtually.
- This year Dr. Banu Ormeci will be presented with the R&B award in the area of Public Outreach and Knowledge Transfer during the Awards Luncheon of the WEAO Annual Conference on Monday, April 17.
- This year the committee is planning to increase the Young Professional members to the committee by at least two representations.

STORMWATER COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

The Stormwater Management Committee (STMC) shall provide leadership for stormwater field as a whole and strive to become a voice for the stormwater industry.

The committee with focus on four key areas:



2022 Committee Members

Name	Role	Organization
Gillian Harris	Chair	Town of Lincoln
Linda Cook-Weaver	Board Liaison	Wolseley Inc.
Danielle Anders	Member	GM BluPlan
Syeda Banuri	Member	Peel Region
Edward Graham	Member	CIVICA
Rob Grech	Member	Town of Newmarket
Aaron Ward	Member	City of Thunder Bay
Bill Trenouth	Member	AECOM
Soheil Kashi	Member	GDH
Kyle Vander Linden	Member	Credit Valley Conservation Authority
Greg Williams	Member	StormTrap

STORMWATER COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Held first ever Stormwater Seminar November 3, 2023



Goals for 2023

- Continue working with MECP on CLI-ECA discussions
- Work with young professional committee to provide more stormwater related seminars
- Continue with outreach and recruitment.

Planned Activities for 2023

- Plan Fall Seminar
- Participate in Annual Conference



UTILITY MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

Senior Utility leaders in Ontario face with issues that affect their day to day operations and decision making. These issues are often similar with government and their clients, and are similar across municipalities.

In the U.S., WEF and AWWA convene a Utility Management Conference annually, where these issues and potential solutions are discussed. There is brainstorming, sharing of best practices and discussion of strategies that may be adopted by all concerned.

Under the auspices of WEAO, a committee was established in 2015 to convene a Utility Management Forum in Ontario (UMF). The Committee will work with Utilities to address issues relevant to the Ontario experience, and make plans for future sessions. Your Municipality has been identified as a leader in utility management and as such, we are asking you to be part of this important initiative. Would you or another senior member of your team be able to participate, by joining this WEAO UMF Planning Committee?

The Utility Management Committee is the preeminent Committee within WEAO for educating and assisting utility managers on ways to make their operations and infrastructure more resilient, sustainable and open for regional and broader collaboration among utilities.

The main goal of the Utility Management Committee (UMC) is to promote the adoption of effective and sustainable management practices across all aspects of water and wastewater utility operations. In 2022-23, UMC has focused on topic of infrastructure investment, collaborative delivery models, sustainable work force retention and other key issues.

UTILITY MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

Committee Mandate

The UMC shall review, analyze and share the latest techniques and strategies for the best management of organizations and the successful operation of effective utilities, professional consulting practices, or any organization engaged in the management of water and wastewater operations. It shall endeavor to develop appropriate and timely educational and outreach tools and techniques (workshops, presentations, webinars, white papers, technical sessions at the annual conference) to educate and train utility managers at all levels to meet the ongoing mission, goals and objectives of the WEAO.

The UMC meets 5-6 times per year to conduct the business of the Committee, and to continue work on organizing annual WEAO UMC conference in fall of each year.

2022 Committee Members

Name	Role	Organization
Indra Maharjan	Chair	Ontario Clean Water Agency
Christine Hil	Member	Arcadis
Trevor Brown	Member	Region of Waterloo
John Duong	Member	Region of Halton
John Presta	Member	Region of Durham
Sumant Patel	Member	City of Guelph
Tammy Bellamy	Member	Region of Waterloo
Ed Bertelo	Member	OWWA Rep
Cordell Samuels	Member	Arcadis
Michael Menalo	Member	Region of Peel
David Unrau	Member	City of Pembroke
Devesh Shah	Member	City of Ottawa
Marcus Firman	Member	Muskoka Region
William Fernandes	Member	City of Toronto
Travis Pawlick	Member	City of Kitchener
Beth Weir	Member	Region of York
Erin Longworth	Board Liaison	Region of Halton
Jennifer Morales	WEAO Liaison	WEAO

UTILITY MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

2022 Activities

After two years of holding online seminars the Utility Management Committee was happy to welcome back more than 120 attendees at the in-person Utility Management Forum that was held on October 25 2022 at the Mississauga Grand Banquet & Event Centre.

In recognition of the many ongoing changes in our industry, the theme of last year's Forum was Delivering Reliable Water and Wastewater Services in a New Era. The event was kicked off by our guest and keynote speaker OJ McFoy, CEO and General Manager at the Buffalo Sewer Authority.



UTILITY MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

There were four breakout sessions in total, two concurrently in the morning and afternoon respectively:

- Morning:
 - 1A - Delivering Construction Projects: Evolution of construction landscape and supply chain challenges
 - 1B - Innovation: Leading strategic innovation through collaboration
- Afternoon:
 - 2A - Operations: Delivering effective operations and maintenance services
 - 2B - Workforce Management: Share strategies around utility workforce management

The 14 speakers for the day came from a diverse field of backgrounds including municipal representatives from a range of small to large communities, consultants, and contractors from across coast to coast to coast.





UTILITY MANAGEMENT COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- Expanded membership to bring more participation from small utilities across Ontario
- Collaborated with multiple stakeholders across different associations

Goals for 2023

- Add new membership to represent various utilities from across Ontario
- Membership survey on areas of focus for utility leaders
- Collaboration with OWWA , CWWA, WEF and AWWA UMC

Planned activities for 2023

- 2023 Utility Management Conference planned for October 25, 2023

WASTEWATER TREATMENT AND TECHNOLOGIES COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

The Wastewater Treatment & Technologies Committee provides a platform for exchanging knowledge on wastewater treatment processes and technologies through seminars, workshops and the Annual Conference technical program. It serves as a resource of expertise to the WEAO, all levels of government, and other associations and agencies to facilitate and promote informed planning and policy decisions for wastewater treatment in Ontario.

2022 Committee Members

Name	Role	Organization
Anna Cleaver	Chair	AECOM
Richard Szigeti	Board Liaison	City of Toronto
Shirley Anne Smyth	Past Chair	Environment and Climate Change Canada
Ahmed El-Dyasti		York University
Alireza Shamshiri	R&B Liaison	Durham Region
Antony Aruldoss		AECOM
Chandra Baker		Halton Region
Dane Reynolds		City of Barrie
Dean Rudd		Endress+Hauser
Emily Zegers		City of Toronto
Hank Andres		OCWA
Heather Brewer		GHD Group
Jessie Cheng		City of Toronto
Kelly Frensch	Vice Chair	Cima+
Mark Knight	WEF Industrial Treatment Liaison	Suez Water Technologies & Solutions
Matt McMahon		Ontario MECP
Michael Mark		MYM Consulting Services
Oliver Schraa		InCTRL Solutions
Rob Anderson	Conference Liaison	C&M Environmental Technologies Inc.

WASTEWATER TREATMENT AND TECHNOLOGIES COMMITTEE 2022 ANNUAL REPORT

2022 Committee Members

Name	Role	Organization
Vlad Petran		City of Toronto
Graham Seggewiss		Cima+
Nick Romero		MTE
Brian Arntsen		Veolia
Michael Lacourt		Ramboll
Adrienne Willoughby		Jacobs
Cindy Kambeitz		Peel Region
Parnain Izadi	YP Liaison	Stantec

2022 Activities

- Microbiology workshop, May 18th, Ashbridges Bay
- Joint seminar with Climate Change, November 17th, Mississauga Grand



WASTEWATER TREATMENT AND TECHNOLOGIES COMMITTEE 2022 ANNUAL REPORT

Goals for 2023

- Work with Conference Committee to continually improve delivery of technical sessions,
- Meeting bi-annually in person with remaining meetings hybrid
- Manage work load within the committee to attract interest in the vice-chair position
- Maintain committee at no more than 25 members, encourage attrition for those who are unable to commit to committee activities

Planned Activities for 2023

- Deliver in person seminar in November 2023, Waterside Inn, Port Credit
- Deliver Microbiology Workshop in Fall 2023, new instructors needed to continue this offering in future years
- Organize ten (10) Wastewater Technical Sessions for Conference May 2023

WATER FOR PEOPLE COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

Water for People Canada (WFPC) is a charitable, nonprofit, international humanitarian organization dedicated to the development and delivery of clean, safe water and sanitation solutions in developing nations. It is the Canadian equivalent of the U.S.-based charity, Water For People (WFP). Canadian water industry professionals established WFPC in 1995, to support and promote the mission of WFP in Canada among the public and the water community. Since its founding in 1995, WFPC has sponsored countless programs benefiting the most marginalized people, principally women and children in nine countries including Bolivia, Honduras, Guatemala, Malawi and Peru.

Currently, the WEAO hosts a WFPC Committee that is responsible for fundraising, outreach, and public education activities within the water environment industry and the community at large. Our efforts are aimed at providing much needed financial support and creating awareness of the wonderful programs either in progress or to begin soon in the areas where WFP works across Latin America, Africa and Asia.

2022 Committee Members

Name	Role	Organization
Tais Santiago	Co-Chair	C3 Water
Jesus Flores	Co-Chair	Jacobs
James Arambarri	Vice-Chair	Azura Associates
Christina Cholkan	Member	City of Hamilton
Cynthia Nwabukei	Member	Vector Process Equipment
Hedieh Hashtroudi	Member	IBI Group
Yvonne Zhang	Member	TYLin Group
Nathaly Villada	Member	City of Toronto
Tiziana Venditto	Member	WTI Infrastructure
Ra'ad Rihani	Member	TYLin
Jason Vandale	Conference Committee Liaison	Victaulic
Rahim Kanji	WFPC Board Liaison	Ontario Water Consortium

WATER FOR PEOPLE COMMITTEE 2022 ANNUAL REPORT

2022 Activities

Despite ongoing COVID restrictions and limits of in-person events, WFP was able to surpass its financial goal of raising \$7,500 for WFPC. The committee was able to surpass this goal through the following events and initiatives.

WEAO Conference – April 17 to 19, 2022

Similar to 2021, the WFP Committee successfully hosted three main fundraising events during WEAO's annual conference: Monday Social Night, Raffle Table, OPCEA Beer Reception. Through those events, WFP was able to raise \$7,286.91. The following is a rundown of the three events that were held during the conference:

- Raffle Table: The raffle table was open on the Monday and Tuesday of the conference. There were 19 different prizes available on the raffle table, all donated by 14 companies and individuals. A total of 1292 tickets were sold over the two days, raising \$1,245.78 towards WFPC.
- OPCEA Beer Reception: The OPCEA beer reception took place on the Monday evening and with the assistance of volunteers, a total of \$1,839.15 was raised during the event.
- Social Night: The social night took place on Monday night at the Toboggan Brewery in London. The social night featured a tiered sponsorship system (Gold & Platinum), in which the sponsors were recognized through several social media posts as well as in a stand-up banner on display during the social night. The event raised \$4,201.98 thanks to the sponsors and the attendance of 50 people.



WATER FOR PEOPLE COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

OPCEA Golf Tournament – September 15, 2022

The WFP committee in collaboration with OPCEA raised funds through a 50/50 raffle and a WFP-themed hole sponsorship at the annual OPCEA Golf Tournament. The event totalled for a successful \$1,617.06 raised for WFPC.

Virtual Coffee Tasting – October 13, 2022

For the first time ever, the WFP Committee hosted a ‘lunchtime’ virtual coffee tasting event on Thursday, October 13, 2022. The event lasted 45-minutes, and the host provided a brief introduction to coffee, as well as a detailed taste walkthrough of 3 different coffees, which were previously mailed to each participant. The event helped raise \$415.50 for WFPC.



VIRTUAL COFFEE TASTING

Hosted by TheRoastersPack

World Toilet Day – November 18, 2022

Collaborated with the City of Hamilton and provided activities/online resources for World Toilet Day. The event totals for a successful \$8,415.00 raised for WFPC.

WATER FOR PEOPLE COMMITTEE

2022 ANNUAL REPORT

Goals for 2023

- Increase virtual and in-person committee engagement.
- Improve communication and attendance policy with respect to monthly WFP committee meetings.
- Increase the number of events held in a year.
- Improve committee presence at WEAO conference.
- Explore collaboration between WEAO and OWWA for the organization of fundraising events.

Planned Activities for 2023

- Virtual Cooking Class
 - Continue with plans to host a virtual cooking class based on positive feedback from virtual coffee tasting (2022) and virtual cooking class (2021).
- WEAO Conference – April
 - Continue to execute fundraising and outreach activities at the conference:
 - Raffle Table
 - OPCEA Beer Reception
 - Social Night – April 17th, 2023 (7-9pm)
- OPCEA Golf Tournament – September
 - Continue to collaborate with OPCEA on a WFP fundraising hole sponsorship and 50/50 table with at least one representative from the WFP Committee to be present in-person to help oversee fundraising.
- World Toilet Day – November
 - Continue to support City of Hamilton in WTD initiatives which will likely involve an in-person educational event or tour working with 7-8th grade students.
- Holiday Bash – December
 - Continue to collaborate with WEAO/OWWA and attend the event while raising both funds and awareness on WFP.
- Influents Article – All Year
 - Submit at least two articles for Influents during 2023. First article will be dedicated as a recap to the conference fundraising activities.

YOUNG PROFESSIONALS COMMITTEE

2022 ANNUAL REPORT

Committee Mandate

To cultivate and connect to the future leaders of our industry.

2022 Committee Members

The YP Committee currently consists of approximately 60 members. Many members hold multiple positions, however in some cases only one position is listed below. Membership of the YP committee is continually evolving to optimize available positions between current and new volunteers.

Name	Role	Organization
Tanin Amerian	Past Chair	Veolia
Sabrina Chang	Chair	C3 Water
Amber Klassen	Vice-Chair & Residuals and Biosolids Liaison	Associated Engineering
Narasimman	Magazine Sub-Committee Lead	
Lakshminarasimman		
Govind Nadadur	Mentorship Sub-Committee Lead	
Samantha Halloran	Professional Development Sub-Committee Lead	City of Guelph
Stephanie Tran	Scholarship Sub-Committee Lead & Student Design Competition Sub-Committee Co-Lead	R.V. Anderson
Michael Blain	Social Sub-Committee Lead	Associated Engineering
Ra'ad Rihani	Student Chapters Sub-Committee Lead	TYLin
Alison Cox	Student Design Competition Sub-Committee Co-Lead	
Tais Santiago	Water for People Committee Chair	C3 Water
Jesus Flores	Water For People	

YOUNG PROFESSIONALS COMMITTEE

2022 ANNUAL REPORT

2022 Committee Members Continued

Name	Role	Organization
Matthew Grekula	Asset Management Liaison	
Huda Oda	Climate Change Liaison	Chatham-Kent
Jesse King	Collections Systems Liaison	GM BluePlan
Dodge Yu	Conference Liaison	University of Waterloo
Nishil Mohammed	Government Affairs Liaison	University of Waterloo
Anum Khan	Intelligent Water Systems Liaison	GM BluePlan
Peter Davey	Membership Liaison	ES&E Magazine
Nathaly Villada	Operations Challenge Liaison & Mentorship Sub-Committee	City of Toronto
Kimia Aghasedeghi	OWWA Liaison & Stormwater Liaison	
Jade Alexander	Public Engagement and Education Liaison	Pentair
Michael Menalo	Utility Management Liaison	Peel Region
Graham Seggewiss	Wastewater Treatment and Technologies Liaison	
Yvonne Zhang	Water for People Liaison	TYLin
Stephanie Choo-Wing	Newsletter	City of Toronto
James Arambarri	Magazine Sub-Committee	Azura Associates
Tianchen Dong	Magazine Sub-Committee	TYLin
Yifan Li	Conference Sub-Committee	WSP
Cristy Guo	Conference Sub-Committee	
Adithia Manohar	Mentorship Sub-Committee	
Mahrooz Sabri	Mentorship Sub-Committee	
Joseph De Paola	Mentorship Sub-Committee	City of Toronto
Alexandra Szewczyk	Professional Development Sub-Committee	
Danielle Holder	Professional Development Sub-Committee	Associated Engineering

YOUNG PROFESSIONALS COMMITTEE

2022 ANNUAL REPORT

2022 Committee Members Continued

Name	Role	Organization
Lin Sun	Professional Development Sub-Committee	Western University
Siddarth Gupta	Professional Development Sub-Committee	
Olivia Hughes	Professional Development Sub-Committee	City of Belleville
Johnathan Rudyk	Professional Development Sub-Committee	R.V. Anderson
Maryam Shahab	Student Design Competition Sub-Committee	GHD
Linda Li	Student Design Competition Sub-Committee	Dillon Engineering
Liv Clouthier	Student Design Competition Sub-Committee	Lystek
Iris Yan	Student Design Competition Sub-Committee	TYLin
Frank Feng	Student Design Competition Sub-Committee	R.V. Anderson
Yourong Li	Student Design Competition Sub-Committee	Toronto Inspection
Danny Sidhwa	Student Design Competition Sub-Committee & Scholarship Sub-Committee	
Jordan Smyth	Social Sub-Committee	
Cameron Bell	Social Sub-Committee	
Nico Caranungan	Social Sub-Committee	Associated Engineering
Alexander Yip	Social Sub-Committee & Professional Development Sub-Committee	
Mohammad Noor Tamim	Student Chapters Sub-Committee	Western University

YOUNG PROFESSIONALS COMMITTEE 2022 ANNUAL REPORT

2022 Activities

- Membership
 - Facilitated the 2022 Mentorship program without need for sponsorship.
 - Speed Mentoring session and two (2) mentoring sessions.
 - Program statistics: 17 mentors and 16 mentees
- Professional Development
 - Planned and executed technical and soft-skills seminars and workshops targeted at young professionals and students, open to all WEAO members. 2022 events included:
 - Virtual webinar: building confidence and communication in presentation skills
 - Technical workshop: introduction to stormwater modelling
 - Student operator tour
- Scholarship
 - The 2022 Kelman scholarship was awarded to one (1) high school student. Seven (7) applications were received.
 - The WEAO Scholarship was awarded to three (3) post-secondary students. Seven (7) applications were received.
- Social Events
 - Planned and executed young professional social events, meet and greets and other networking opportunities. 2022 events included:
 - Virtual Game Night
 - Monday Night YP Social at the 2022 Annual WEAO Conference
 - WEAO/OWWA Holiday Bash



YOUNG PROFESSIONALS COMMITTEE 2022 ANNUAL REPORT

2022 Activities Continued

- 2022 Social Events Continued
 - YP Meet & Greet (Waterloo, Guelph and Toronto)
 - WEAO Beach Volleyball Tournament



- Student Chapters
 - Provided guidance to active chapters: Ryerson University, University of Toronto, University of Guelph and Western University.
 - Co-organization with OWWA of the virtual Student Chapter Leadership Forum
- Student Design Competition
 - 2021-2022 virtual competition focused on stormwater management for the City of Barrie.
 - Host: City of Barrie
 - WEAO SDC Winner: University of Waterloo
 - Support of the WEAO SDC team to compete in the WEFTEC SDC in New Orleans, 2022. The University of Waterloo won the Environment category.
 - Continued coordination of the 2021-2022 WEAO SDC in partnership with Region of Halton, with a focus on wastewater treatment at the Mid-Halton WWTP. One (1) team currently registered for the competition.

YOUNG PROFESSIONALS COMMITTEE

2022 ANNUAL REPORT

Goals for 2023

- Update “Young Professionals” to a title that is more inclusive such as “Emerging Leaders”.
- Continue to improve volunteer involvement in all sector’s of wastewater, including developing operator involvement further;
- Improve succession planning through inter committee networking (i.e. WEAO YPs joining on other committees, committee panel discussions, etc) as well as improve internal file sharing protocol for succession planning within YP sub committees;
- Improve social media involvement and outreach using updated social media platforms such as Instagram, improve on already used platforms such as Twitter and LinkedIn, and investigate social media scheduler.

Planned Activities for 2023

- Q1
 - PD – Greenhouse Gases: Virtual Webinar
 - WEAO SDC – Competition Day
- Q2
 - Social – YP Social at the 2023 Annual WEAO Conference
 - Social – Volleyball
 - YP Spring Team Build
- Q3
 - PD - Soft Skills Webinar (TBD)
 - Student Chapter leadership Forum
 - Social – Fall M&G
- Q4
 - PD – Student Operator Tour
 - PD – Technical Webinar (TBD)
 - WEAO SDC Site Tour
 - Social – Holiday Bash