

**Canadian National Water Efficiency Network (CNWEN)
MEETING NOTES**

**Tuesday March 20, 2018
11:00 am – 2:00 pm EST
Halton Region, Oakville**

Attendees:

Name	Affiliation	Name	Affiliation
Kathy McAlpine Sims	Halton Region	Glen Pleasance	Region of Durham
Bill Gauley	Gauley Associates	Kimberly Wright-Caraballo	City of Toronto
Steve Gombos	Region of Waterloo	Julie Ann Lamberts	City of Guelph
Johann Manente	Region of Peel		
Conference Call	Affiliation	Conference Call	Affiliation
Mathieu Laneuville	Quebec Ministère des Affaires Municipales	Aaron Boulton-Chaykowski	City of Calgary
John Koeller	Koeller & Company	Marie Irwin	Greater Victoria Reg. District
Bill Christiansen	Alliance for Water Efficiency		

1. Review of November 21st 2017 Meeting Notes

2. Additions to the Agenda: None

3. AWE Update – Bill Christiansen (Presentation provided with Agenda)

- i) WaterSense is still jeopardy. AWE is supporting Senate Bill S.1137 and urging its members to do the same. It would establish authorize WS an annual budget \$2 Million
- ii) AWE has completed the 2017 State Scorecard. Webinar being held March 22nd. @ 3PM. Bill said that we could pursue an update of Provincial Scorecards if there is interest. Aaron asked that Bill send him a copy of the existing survey in order to determine what updates are needed. Bill to send to Aaron.
- iii) AWE is conducting a State survey of Climate Resiliency scheduled to conclude in June 2018
- iv) Outdoor Studies; *Landscape Transformation* – 15 participating agencies, Summer 2018 completion.
Drought Restrictions - 14 agencies, will quantify savings yielded, Fall 2018
- v) Cooling Tower Study – determining what type of incentives would work. Still needs further funding.
- vi) Predictive Analytics – a method of targeted marketing. AWE asking whether it would achieve increased water efficiency. Scope is under development.
- vii) Avoided Cost Projects – Westminster Co. was the first community studied. Tucson Az. has been completed, L.A. is next. See AWE website.
- viii) Transforming Water Report- examines the economic benefits of investing in water efficiency vs. conventional infrastructure. Released in December 2017, posted on the AWE website.
- ix) Kitchens Guide – PDF is free to AWE members, \$6/printed copy, dependent on volume.
- x) AWE Webinars – 13 held in 2017, 10 scheduled for 2018.

4. External Presentations to CNWEN - Kathy

Summary of municipal responses was circulated with the Agenda.

Agreed that we will not share member e-mails with presenters. CNWEN members would contact the company if they chose to. The company presents, we question them & then discuss amongst ourselves after the company reps depart. Presentations will be strictly limited to 15 minutes.

5. Proposed Modifications to the Quebec Plumbing – Mathieu Laneuville

- Mathieu attended a Quebec plumbing code meeting last week. He thought they had agreement on 4.8Lpf in all building types, only to learn this decision was rescinded after he left the meeting due to concerns over drainline carry
- He plans to recommend referencing WaterSense in the code's Annex
- Mathieu told us of a municipality claiming widespread flapper leaks
- John K said they must be old toilets because flapper integrity is no longer an issue with toilets made in the last 10 years
- John also pointed out that Aquacraft's End Uses of Water Studies over –estimate leaks of all types...
- John will forward a flapper study to the group which tested 900 toilets in 700 homes and found a tiny percentage of leaks. This study is also in on Map website; www.map-testing.com/
- Mathieu also asked that CSA's B45 Committee reference WaterSense in its' Annex
- John said it already has been done.

6. Shower Head Testing Results – Bill Gauley

- Presentation was circulated with the Agenda.
- Some programs advertise taking shorter showers... Bill has looked at over twenty years of data and people's shower duration is unchanged
- Despite lower flow rates, shower water consumption has not declined much, not the way toilet and clothes washer consumption has
- Bill added that Certification Requirements do not spur innovation in order to break the static state of shower water use
- What is needed is a MaP certification to stimulate innovative shower head design
- It would be independent with a 3rd. party rating system to measure actual force, not an acceptable minimum
- The current WS Force Balance test method is a very limited test in that replicability is not occurring among test labs and this test is also lacks accuracy as gravity effects its measurement
- Bill has been testing an electronic force gauge that is more sensitive and repeatable among labs even with different makes of gauges
- Bill has determined that testing a head in a vertical position (as opposed to WS' 45 degrees) removes the disruptive effect of gravity for a more accurate test. This also led to the finding that head distance from the gauge is not a variable
- Much clearer test of flow rate vs. force, with the goal being the highest force at the lowest flow rate; flow rate/Lpm
- This is important for another reason, skin feels pressure, not weight
- High force & low flow rate can be achieved by keeping the jets in stream and not dispersing
- Manufacturers are already sending Bill heads to test
- Municipal funding would speed up this project

- Glen suggested that MOECC may be interested too, as reducing residential GHG from natural gas is one of their priorities. He will seek out a contact to provide to Bill
 - Reducing household hot water use is a great way to reduce that homes' carbon footprint
- Action: Bill will develop a proposal/scope in order to enable potential funders to contribute**

7. Other Business

- **Guelph Update** – Julie Anne Lambert;
- Water Smart Business (former ICI Capacity Buyback Program):
guelph.ca/watersmartbusiness
- Guelph businesses using $\geq 10\text{m}^3$ of water per day (i.e. complex water process system) may qualify for 50% cost share on completing a full-facility water audit by a third party consultant;
- Guelph businesses using $\leq 10\text{m}^3/\text{day}$ (simple water process system) may qualify for a free water review of their water using processes which include water saving recommendations;
- Incentive of \$750/m³/day/project for demonstrated permanent water savings (i.e. buying back water supply capacity) by undertaking recommendation(s) outlined in the report.
- NEW! Multi-residential Water Audit: <https://guelph.ca/living/environment/rebates/multi-residential-water-audit-program/>
- For multi-residential buildings with ≥ 7 units or more, a free water audit is available. The audit includes:
 - An in-unit review of plumbing fixtures, appliances, leak detection on a sample set of suites;
 - A 24-48 hour diurnal analysis of water demand through the billing meter;
 - Submetering and evaluation of facility's process water (where appropriate); and
 - A final report outlining water demand and tailored recommendations for water efficient upgrades.
- The facility then becomes eligible for rebates/incentives to complete upgrades through Blue Built Home, Water Smart Business and/or Residential Sub-Water Meter Rebate Program.
- NEW! Residential Sub-Water Meter Rebate Program:
<https://guelph.ca/living/environment/rebates/residential-sub-water-meter-program/>
- Rebate of \$125 per permanently installed sub-water meter (typical of sub-metering for multi-residential buildings*).
- Rebate of \$100 per add-on smart meter, such as that of the Civic Accelerator Alert Labs 'Flowie' (single family qualify).
- These rebates may be combined to provide function and timely feedback.
- *A multi-residential audit must be completed before a facility can qualify for the permanent sub-meters rebate.

8. Next Meetings:

- **Tues. June 19th, 2018 - Guelph**
- **Tues. Nov. 20th, 2018 – Peel**