



## **Minutes**

### **Coordination Committee**

Monday January 8, 2018, 3:00 – 5:00 pm

71 Main St W, City Hall, Rm 192/193

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#### **Present:**

Bruce Newbold (Chair)  
Trevor Imhoff, Public Health, City of Hamilton  
Brian Montgomery, Public Health, City of Hamilton  
Lynda Lukasik, Environment Hamilton  
George McKibbon, McKibbon Wakefield Inc./University of Guelph  
Fran Scott, McMaster Institute for Healthier Environments  
Abe Hafid, McMaster Masters of Public Health Program  
Peter Chernets, Citizen  
Andrew Sebestyen, Stelco Canada  
John Lundrigan, ArcelorMittal Dofasco  
James Kaspersetz, Niagara Peninsula Conservation Authority  
Dan Dobrin, Ministry of the Environment and Climate Change  
Tiffany Singh, Planning and Economic Development, City of Hamilton  
Michael Gemmell, Green Venture  
Susan Chapman, Ontario Lung Association

#### **Regrets:**

Denis Corr, Corr Research  
Juby Lee, Environment Hamilton  
Matt Adams, Associate Professor, Ryerson University  
Rachel Johnson, Smart Commute -TDM, City of Hamilton  
Sally Radisic, Public Health, City of Hamilton  
Peter Topalovic, Smart Commute -TDM, City of Hamilton  
Jonathan Bastien, Hamilton Conservation Authority  
Weeberb Réquia, McMaster University  
Ken Smith, Citizen  
Brian Jantzi, Citizen  
Robert Clackett, Planning and Economic Development, City of Hamilton  
Peter Topalovic, Smart Commute -TDM, City of Hamilton  
Shelley Rogers, Public Health, City of Hamilton  
Christine Strupat, Planning and Economic Development, City of Hamilton

Myles Sergeant, Trees for Hamilton  
Karen Logan, HIEA Representative, Communication Coordinatorp  
Umme Akhtar, Health Canada  
Elise Desjardins, Friendly Streets Hamilton  
Anna Krol, Health Canada  
Christine Borselli, Citizen  
Adriano Mena, Citizen  
Ted Mitchell, Citizen  
Barry Duffey, Ministry of the Environment and Climate Change  
Joshua Parkinson, Student, Mohawk College  
Michelle Cassar, Health Canada  
Patrick Quealey, Environment and Climate Change Canada  
Lorraine Vanderzweilt– Mohawk College  
Shivani Vigneswaran, Environment and Climate Change Canada  
Carolyn Barnes, ArcelorMittal Dofasco  
Joel Konik, Hamilton Conservation Authority  
Paul Szachlewicz, Horizon Utilities Corporation  
Alexandra Graham, Citizen  
Andrea McDowell, Public Health, City of Hamilton  
Matt Lawson, Public Health, City of Hamilton  
Christine Newbold, Planning, City of Hamilton  
Katie Chan, Stelco Canada  
Kirsten McCauley, Planning and Economic Development, City of Hamilton

## **1. Introductions & Welcome**

## **2. Approval of November 13, 2017 Minutes**

- Name edit Peter Chernets
- Approved

### **Presentations:**

## **3. Building Community Awareness & Action Regarding Respirable Particulate Pollution in Hamilton – Environment Hamilton (15 min)**

### Link to Presentation:

- Environment Hamilton (EH) thanks Clean Air Hamilton (CAH) for funding to complete project.
- EH would like to continue into 2018 building low cost Particulate Matter (PM) sensors.
- Combined funding with Canada Summer Jobs in order to hire intern Sean Angel and partnered with Natural Heritage Club for youth engagement.
- Goal to engage network of volunteers to build network of stationary locations across the lower city to measure fine air particulate pollution.
- Arduino board is a low cost open-source electronics platform and is easy to use

- Shinyei PPD42 air particulate sensor only \$9 USD designed for use with Arduino. Measures fine particulate through updraft of airflow generated by heater resistor and infrared light beam from light emitter.
- Submitted job ad received hundreds of applications. Hired Sean Angel as the Air Quality Project Assistant that created detailed “How To” manual.
- Ran community based workshops teaching volunteers how to build sensors. Started workshop with teaching about why air quality is important
- Volunteers starting to take sensors home to start monitoring
- In future looking for wireless options and finishing open source air quality mapping. Mapping more difficult than expected, building google map and using website ThingSpeak that sensor can directly communicate with
- Compared Dilos PM monitoring to Arduino monitors when going out with kids to monitor.
- Communicating importance of air quality, PM<sub>2.5</sub> and trees to teach holistic approach to air quality
- Next steps include looking to add LED screen and temperature/humidity reading capabilities

#### Questions/Discussions:

- Susan C. – Asking how many sensors does EH have now
  - Lynda L. – Around 10 but will confirm exact numbers
- James K. – Asking how accurate the data is? Cautioning about inaccurate data causing public to panic.
  - Lynda L. – EH makes sure to properly communicate to public so understand limitation. When website created will have some sort of disclaimer. Meant as early warning so if consistently bad readings than further investigation needed.
- Dan D. – Asking if co-locate sensors with MOECC/HAMN network or other monitors? Could be interesting to do so. MOECC must follow US EPA accreditation.
- George M. – Asking if there is a lot of local phenomena that affect readings?
  - James K. – Hamilton has very unique and varying local wind patterns, phenomena called Idaho wind tunnels. Will be presenting later on discrepancies with Environment and Climate Change Canada meteorological data that includes averages from Guelph.
- John L. – Suggesting potential opportunity with McMaster University to collaborate with to help with calibration.
- Andrew S. – Agrees good idea to co-locate to investigate accuracy.
- Fran S. – Asking about personal exposure monitors.
  - Lynda L. – Could be future monitors that include GPS tracking

#### **4. Upper Risk Thresholds Schedule 6: Regulatory Amendment to Ontario Reg 419/05 – James Kasperzetz**

Link to Presentation:

- Have received numerous calls regarding Emission Summary and Dispersion Modelling (ESDM)

- MOECC amended O.Reg. 419/05 to introduce new or updated air standards for eight contaminants based on precautionary toxicological properties of contaminants (List of contaminants on slide 3)
- Precautionary principles non-carcinogenic effects URT set at 10 fold higher than standard, carcinogenic effects URT set at 100 fold higher than standard
- URT's not standards but a risk management tool to trigger further assessment
- O.Reg. 419/05 gives industry flexibility and solutions for continuous improve by 1) meeting air standards by July 1, 2016, 2) request site specific standard (SSS) 3) register under sector-based technical standards
- Industry concerns air standards unattainable and driving to SSS which in effect creates a two tiered compliance system.
- Compliance relies completely on modelling based system that is not accurate. Canada Met Data supplied by Environment Canada covers 1996 to 2000 and locally uses average data input covering Guelph and Niagara
- Currently limited guidance from MOECC

#### Questions/Discussions:

- Dan D. –Asking what percent is missing for data capture?
  - James K. – \_\_\_\_\_
- George M. – Once approved how often/probability of reaching URT?
  - James K. – review completed every year, modelling inaccurate and forced to use US EPA emission factors.
- Lynda L. – OK with conservative approach due to potential cumulative effects
  - James K. – current modelling is for worse case scenario
- Lynda L. – Reviewed many ESDM's, recommend on ground monitoring
- Dan D. – We don't have all the information so conservation acceptable
- Andrew S. – Hamilton Air Monitoring Network (HAMN) monitors wind data, more local accurate data

#### **Updates:**

##### **5. CCME 2017 State of the Air Video – Trevor Imhoff (5 minutes)**

Link to Video: <https://www.youtube.com/watch?v=xjW-iezfkOc>

##### **6. CCME Stakeholder Advisory Committee Documents Discussion – Group Discussion – **Deferred to February meeting****

##### **7. Clean Air Hamilton 2018 Strategic Activities and Objectives – Group Discussion (20 minutes)**

- Trevor I. – To help guide CAH into 2018 and make the committee as effective as possible would like to discuss current concerns for CAH members, challenges and potential opportunities.
- Trevor I. – Discussed previous 2016 strategic workshop which created CAH strategic activities including Governance & Structure, Air Zone Management, Transportation, Air Monitoring, Dust & PM<sub>2.5</sub> Mitigation.
- Lynda L. – Recommending transportation as a main theme for CAH for 2018. Budget deliberations currently underway and a new 10 year transit strategy.

- James K. – Asking if CAH can apply for Trillium Funding
  - Trevor I.- No CAH technically a municipal committee, has been previously discussed about transforming CAH into not-for-profit with decision to keep committee as is.
- Susan C. – Recommended looking at Trillium Transformative grant and inviting HSR to CAH table.
  - Trevor I. – Will look into inviting HSR.
- Fran S. – Asking how CAH can be more involved in policy/by-law decision quoting previous parking lot spacing and how it was too late for CAH to comment
  - Trevor I. – Yes something Public Health has been working on as well in regards to more effective commenting, however mainly for site plan applications and more long term plans. Asking Robert C. to expand on planning process
  - Robert C. – All policy changes, especially for long term plans undergo public consultations open houses/ town halls etc at which time public can comment.
  - Trevor I. – At that time would be best time for CAH to comment. Will look into how CAH can stay notified of those upcoming public consultations.
- Dan D. – Like transportation as a theme to focus on.
- Susan C. – Recommend connecting with McMaster Automotive Resource Centre (MARC) at Innovation Park.
- Lynda L. – Promoting transportation theme can help with swag, hand out presto cards or bus passes at events.
- Tiffany S. – Recommend Twitter account to help gauge interest of students at both elementary and secondary. Promoting active transportation to school.
  - Trevor I. – Great idea, CAH already working with Active Sustainable School Transportation (ASST)
- George M. – Recommending using mobile monitors to monitor busy intersection such as Hwy 400 on/off ramps to show impact of traffic.
  - Trevor I. – Could be possible with new more portable air monitors but current air pointers can only be located in public parks and require large electrical connection.
- Andrew S. – Recommending outlining CAH objectives that City owns and/or has direct control over.
  - Trevor I. – Great point, idea of promoting PM<sub>2.5</sub> mitigation through the use of effective technology on street sweepers. Was already recommended through air quality task force and something city directly owns and controls. Previous discussion with Public Works operations of street sweepers identified has right technology but perhaps not enough. Further thought on how best to promote and approach with PW is required.

## **8. Clean Air Hamilton 2018 Funding Applications Update – Trevor Imhoff (15 minutes)**

- Lynda L. – June is active transportation month, great to have presentation then. Recommend connecting with Debbie from HSR working on transit strategy

- George M. – Recommend discussion on MOECC land use compatibility, previous question to MOECC which asked about updating guidelines. Presentation on status of that and challenges.
- Fran S. – Asking about meeting that Golder Associates could present on airshed model?
  - Trevor I. – They will be presenting at Upwind Downwind Conference in March so only other month is February and there is internal communication steering committee
  - Andrew S. – Yes committee has received report from Golder on airshed model. Meeting soon to discuss findings
  - Fran S. – Recommending that Golder present to CAH following conference for more details and questions CAH members may have.
  - Trevor I. – Will speak to communication committee and/or Golder

### **9. Reschedule October and/or March meetings – Group Discussion (5 minutes)**

- Trevor I. – need to reschedule October meeting due to Thanksgiving, either week before or after?
  - Group decided October 15, 2018. Trevor I to update meeting invite

### **Member Updates:**

#### Susan Chapman – Ontario Lung Association

- February 3, 2018 is THE STEELTOWN STAIR CLIMB at 100 King Street West created by STEP UP and BREATH the lung association
- LINK:  
[http://support.on.lung.ca/site/TR/StepUpampBreathe/StepUpClimbEvent?fr\\_id=1160&pg=entry](http://support.on.lung.ca/site/TR/StepUpampBreathe/StepUpClimbEvent?fr_id=1160&pg=entry)

#### Michael Gemmell – Green Venture

- Recommending theme of electrification for Clean Air Hamilton

#### Peter Chernetz - Citizen

- uHoo air quality monitors capable of triggering humidifiers to come on based on readings
- Have not received feedback from breezometer and still would like some
  - Trevor I. to email breezometer company for more info for CAH discussion

#### Andrew Sebestyen - Stelco

- Stelco recently received two grants from Province of Ontario
- Working with company in Thorold to provide railway ties, creosol recycling preventing from going to landfill
- Low carbon technology for coke oven heating grant provided by OCE
- Lake Erie plant algae bio-pond, multiple uses including bio-diesel, fish stock food

#### Fran Scott – McMaster Institute for Healthy Environments

- New strategic plan created for MIHE

James Kasperzetz – Niagara Peninsula Conservation Authority

- Recommending Cap & Trade presentation from MOECC at CAH meeting

Trevor Imhoff – Hamilton Public Health Services

- Centre for Climate Change Management (CCCM) forums happening week of March 5 following Upwind Downwind Conference so look for invites
- Globe Forum 2018, international sustainability conference contacted myself and Brian regarding participation at the conference. Recommend to speak with Andrew S. at Stelco regarding new provincial funding. Will send link to group and contact info if anyone is interested.

**Action Items:**

- **EH to send out “How To” manual of Arduino PM sensors.**
- **Trevor I. to invite HSR to Clean Air Hamilton to discuss Transit Strategy.**
- **Trevor I. to discuss internally with PHS and PW regarding street sweepers.**
- **Trevor I. to email MOECC SDB branch regarding land use compatibility presentation.**
- **Trevor I. to send out Globe Forum 2018 link and contact info.**
- **Trevor I. to update March and October CAH meeting**
- **Trevor I. to email breezometer company for more info**

**Next meeting**

**February 12, 2017**

**3:00-5:00pm**

**City Hall Room 192/193**