

**NIH Rapid Response Proposal 11/2/2015**

Through previous work by the PI in Flint (Faust et al., 2015), the project team has unique access to the Flint water distribution system details (**Figure 4**); including pipe and flow (supply and demand) details (see letter of support), and has initiated the modeling effort.



Figure 4. Flint water distribution system.

-----Original Message-----

**4/22/2016** McElmurry to [jmday@cityofflint.com](mailto:jmday@cityofflint.com)

Cc: Carol Jean Miller, Me, Sylvester Jones, Karen Weaver

Hello JoLisa, it was a pleasure meeting with you today. Sorry I was scatter brained! It's been a long week and I think my lack of sleep has finally caught up to me. To help provide you with some context, I have attached the project description for a NIH project for which I recently received funding. I have copied two of my colleagues working on this project with me: Carol Miller (WSU) and Susan Masten (MSU). Also included is a letter of support that was provided by Howard Croft, then Director of Public Works. I have spoken with both Mr. Jones (cc'd) and Mayor Weaver (cc'd) about this project multiple times and I believe I have their support.

As I mentioned, this project was envisioned last fall and a lot has changed. One of the most significant changes since last Fall has been US EPA's involvement. **With EPA's recent assistance it doesn't make sense for us to continue to develop our EPANET model independently.** Rather, we would like to work with you, the city, and the EPA, in developing a better understanding of the water distribution system. For instance, as eluded to in the proposal, we believe by coupling targeted water quality monitoring (that we can do as part of the NIH project) with detailed hydraulic modeling we can define portions of the physical infrastructure most impacted from the excessive corrosion.

To help us move forward, I would like to establish a data sharing agreement so that (1) we can share information openly between us (WSU and the City of Flint), (2) we can work directly with US EPA in developing this model and analyzing results, and (3) you and the City of Flint can be assured we will not share this sensitive information with anyone.

Could we sit down to discuss in more detail? We are happy to come to you anytime. I appreciate your assistance and look forward to meeting with you. Thank you!

Sincerely,  
Shawn McElmurry

**7/30/2016**

From Carol Jean Miller  
Re: Data Sharing Agreement for Flint Water Model  
To: Shawn Patrick McElmurry, [jmcdlay@cityofflint.com](mailto:jmcdlay@cityofflint.com)  
Cc: Sylvester Jones ([sjones@cityofflint.com](mailto:sjones@cityofflint.com)), [kweaver@cityofflint.com](mailto:kweaver@cityofflint.com), me

Hello Jolisa,

I am following up regarding the data share agreement hat Shawn provided via the email below. I realize the agreement will likely require some changes due to input you may have.

I'm a colleague of Shawn's from WSU and I'll be **working on some of the water network modeling aspects of this project**. I'd love to begin work on this as soon as possible - but would like to ensure we're all working off the same base model.

**Has there been any progress on approval of model sharing?** Do you have any questions about the data share agreement? We'd be very happy to work with whatever arrangement is most agreeable to you.

Looking forward to meeting you soon!

Carol

Carol J. Miller, PhD, PE  
Professor - Civil and Environmental Engineering  
Director - Healthy Urban Waters  
Wayne State University  
Detroit, MI 48202 (313) 577-3842  
<http://engineering.wayne.edu/uwerg/>  
Cell: 313 706-9060

3/13/2018

Shawn states in a seminar given at MSU that he has the EPA hydraulic model in his lab and they are working on calibrating it so they can go back in time (shows animation of model produced by Arcadis/EPA for City of Flint)

9/30/2018 Witness claims Dr. McElmurry took EPANET Hydraulic Modeling for NOVICE USERS COURSE

<https://www.regonline.com/builder/site/Default.aspx?EventID=2239013>

## Introduction to EPANet 2.0 Water Distribution Systems Model

Thursday, September 20, 2018 8:30 AM -  
Friday, September 21, 2018 5:00 PM (Eastern Time)

### **When:**

See information above

### **Where:**

US Environmental Protection Agency, Cincinnati, OH

**Cost: GENERAL: \$835.00.**

*Early registration \$745 until August 24, 2018.*

**AWWA members: \$775.00.**

*Early registration \$705 until August 24, 2018.*

### **CEU's:**

A certificate of completion will be issued. Also, depending on the State you practice, you may be eligible for 1.4 CEU's, 14 PDH's.

### **Why Take This Class:**

...It will cover the fundamentals of building and calibrating water distribution system models, specifically using EPANet 2.0 software, ...The students will be introduced on how to use this software and the class is also designed to improve the skills of novice users.

**Computers: Bring your own laptop with the EPANET software installed!**

The software may be downloaded for free from:

<http://www2.epa.gov/water-research/epanet#downloads>