

**2<sup>nd</sup> Annual**

# Water Systems Symposium

Experts in the Classroom - Video Series

Problem-Based Learning Curriculum Case Studies

Policymakers Town Hall

Facilitated by [Sustainability Ambassadors](#)

Sponsored by [Cascade Water Alliance](#)

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**WHEN:** Saturday, November 5, 2016 | 9:00-4:00 (6 clock hours available)

**WHERE:** International Community School, 11133 NE 65th St, Kirkland, WA 98033

**WHO:** Teacher and student leaders from middle school, high school and college

*Every year, over 200 systems thinkers (like you) gather for an invigorating study of water systems including water supply, wastewater treatment, and stormwater management.*

**GOAL:** To inspire problem-based learning in the classroom explicitly aligned with real-world water resource management goals, locally, regionally and globally.

**REGISTRATION:** FREE, but on-line registration required. Limited to first 200. [Register Now](#)

Here is the full url if you need it: <http://www.brownpapertickets.com/event/2641939>

**AWESOME LUNCH:** Free, delicious, robust! Catered by Homegrown Sustainable Sandwich Shop

**CLOCK HOURS:** Six Clock Hours available! (For additional fee, paperwork provided at Symposium)

## Learning Objectives

1. I can explain how the future of local water will depend on the integration of water supply, wastewater, and stormwater systems.
2. I can translate knowledge and resources gleaned from the experts at the Symposium into problem-based learning opportunities in my classroom.

## The Symposium is organized in five parts...

1. **EXPERT TALKS:** Exciting 8-minute talks by experts from a range of topics including water systems science, engineering, policy, economics, geography, and the future of local and global water challenges. Includes two natural systems: watersheds and the water cycle, and three human infrastructure adaptations: water supply, wastewater treatment, and stormwater management.
2. **ASK IT NOW:** Immediate Q&A with each expert to solicit deeper understanding of the topic for classroom application.
3. **CLASSROOM APPLICATION:** Teacher-led breakout workshops on Community Curriculum Case Studies using real-world, problem-based learning to meet educational standards *in context* of water resource management goals.
4. **VIDEO LIBRARY:** Each expert talk (with beautiful slides!) is captured professionally on five video cameras, edited and posted online with annotated links and curriculum connections to catalyze ongoing classroom inquiry and problem-solving.
5. **POLCYMAKERS TOWN HALL:** Elected officials and staff from city and county government will share a unique civics lesson on: (1) innovations in water resource policy development, (2) their vision for the future of integrated water management, and (3) strategies for strengthening the relationship between what cities need to accomplish and what students learn in school.

## PROGRAM

- 8:30     **Registration sign in, clock hours, and coffee**
- 9:00     **Welcome** , Goals and **Orientation** - How the day will flow  
           **Pre-Test Results** - Audience Inquiry: "True or False?"
- 9:30     **SESSION ONE: 8-minute expert talks with Q&A** - live audience video documentation
- 10:45    **Break / Networking**
- 11:00    **WORKSHOPS: Problem-Based Learning Classroom Applications**  
           Teacher Fellows and selected experts will facilitate
- Share existing Community Curriculum Case Studies as a model to adopt or adapt
  - Facilitate group discussion based on participants own classroom experience
  - Meet with experts to explore learning opportunities for real-world problem solving
- 12:00    **LUNCH** - Catered by Homegrown Sustainable Sandwich Shop (Compost!)  
           Video Library Teaser...
- Where Does My Compost Go?
  - Homegrown Sustainable Sandwich Shop - Business Story
- 12:45    **Community Impact - "Classroom Rigor meets Community Relevance"**  
           How do we collect and report data for community impact?

- Problem-Based Learning 101
- Pre-Test as PBL entry event with student-built Wiki as classroom guide
- Personal and Family Pledge as behavior change assessment
- Home Water Conservation Audit
- Carry 5 - Walk for Water as a shared experience of empathy and action
- Strategies for reporting data to stakeholders
- Library – Annotated Links and Videos

1:30 **SESSION TWO: 8-minute expert talks with Q&A** – live audience video documentation

2:30 **Break / Networking**

2:45 **TOWN HALL - Policymakers on Water Management; Three Questions...**

- What are the top 2-3 innovations in water resource policy development?
- What is your city's vision for the future of integrated water management?
- What are the best strategies for strengthening the relationship between what cities need to accomplish and what students learn in school?

3:45 **Learning Reflection – Commitment Statements**

4:00 **Adjourn**