

2025 Water and Wastewater Workshop

Keynote address

Shauna Curry BE'94

Engineer. Advocate. Global leader. Innovator. Educator.



1 How will humanity respond to the challenges while setting us up to navigate an uncertain future?

2 What best equips us to make the greatest contribution to our world?

3 How can you build connections, foster relationships, tap into the skills and talent of each other?

"The Passage" by: Jim Elzinga/Roger Vernon, Guardians Of The Ice
Columbia Icefield, The Canadian Rockies





Rio Magdalena, Colombia



Sharanamati Village, Nepal
Photo: Gavin Gough





Water collection
Rural, Congo



Water transportation
Rural, India



Child collecting water in Kenya



Water storage, Syrian refugee camp
Mann District, Jordan





Mohammadpur Lakhanpur Village,
Desari Bihar, India



Caracas, Venezuela






Bangalore, India



Democratic Republic of the Congo,
Central Africa





**More than
2.2 billion people
live without
safely managed
drinking water**



**3.5 billion people
still live without
safely managed
sanitation**

Data source: WHO/UNICEF 2023
Teknaf, Cox's Bazar, Bangladesh





Canada:

coast to coast to coast



Rural

British Columbia

British Columbia

B.C. Interior communities face millions in water upgrades, including former home of the 'world's best water'

Interior Health enforcement of new water standards creates backlash in small communities



Tom Popyk · CBC News · Posted: Mar 15, 2025 7:00 AM MDT | Last Updated: March 15

Canal Flats struggles for a solution

In Canal Flats, the cost and necessity of the infrastructure upgrades weigh on the mayor's mind.

"If the government is going to start downloading more and more stuff like they have been lately to the municipalities, they have to supply the municipalities with a way to deal with it, whether that be money, whether that be support, whether it be bringing people in to do it," Dougherty said.

"But just to download it on smaller communities, it's a hardship."



Canal Flats, BC

Some 800 residents in Canal Flats get their untreated tap water from municipal wells, which Interior Health has deemed to be at risk of groundwater contamination. (courtesy Village of Canal Flats)

WST

Rural
Nunavut



Cambridge Bay

Rural
Nunavut



Cambridge Bay

Rural

Newfoundland & Labrador



Valley Pond, Town of Branch

Rural
**Newfoundland
& Labrador**



Town of Glenburnie-
Birchy Head-Shoal Brook

Urban

FIGHTING

THE RECORD, Kitchener, Ont.

E. coli will have 1

Two to 10 per cent of estimated 2,000

The seven who died

7 people died, 2,321 got sick: They are more than numbers

By NICOLAAS VAN RIJN
STAFF REPORTER

Lenore Al, 66, Edith Pearson, 83, Vera Coe, 75, Laura Rowe, 84, Evelyn Hussey, 84, Betty Trushinski, 56, And little Mary Rose Raymond, only 2.

The seven who lost their lives — and the 2,321 people who got sick — were the true

The Walkerton Herald-Times

Vol. 140 - No. 22 - Wednesday, May 31, 2000 - \$1.00 per copy (includes GST)

Killer bacteria strikes town

Five lose lives to E. coli

By Patrick Rafis
Herald-Times staff

Five people are dead and one

Boil water, filters won't work

With Walkerton's water

E. coli a factor in 7 deaths, coroner says

The Office of the Chief Coroner announced Friday that the expert committee appointed to study deaths that may have been related to the Walkerton E. coli outbreak has updated its findings after reviewing additional deaths since its previous announcement on July 26.

The committee has reviewed a total of 27 deaths and assigned them to the following categories:

- Four deaths were directly caused by the E. coli outbreak in

how she impacted their life, how she made differences in their life.

Lenore Al was a retired library worker and was suffering from a minor bladder infection before her rapid decline. But, her son Robert said, she was basically a healthy woman. She was, her family said, a quiet person and an avid reader. One of her reasons for retiring was to spend more time with her husband John, a retired manager and part-owner of a furniture manufacturing

"The biggest example obviously is places like Walkerton."



Walkerton, Ontario

In April 2000, days of heavy rains washed cow manure from a nearby pasture into Walkerton's water system through a cracked well, creating the worst E. coli outbreak in Canadian history. Seven people died, and more than 2,000 fell ill. (Haydn Watters/CBC News)



Calgary, Alberta



University of Calgary, Alberta





Pierre Payan, Haiti





Gurugram, Haryana, India

Newfoundland & Labrador

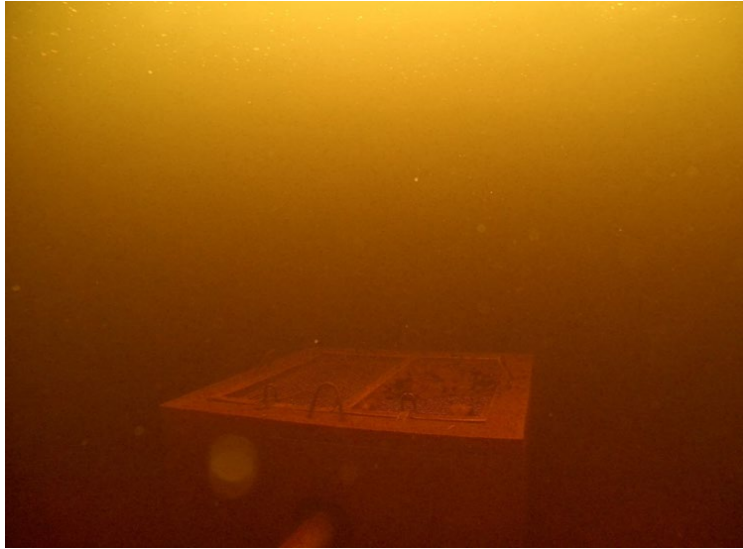




Potable Water Dispensing Units (PWDUs)



A resident fills up their jug in a PWDU



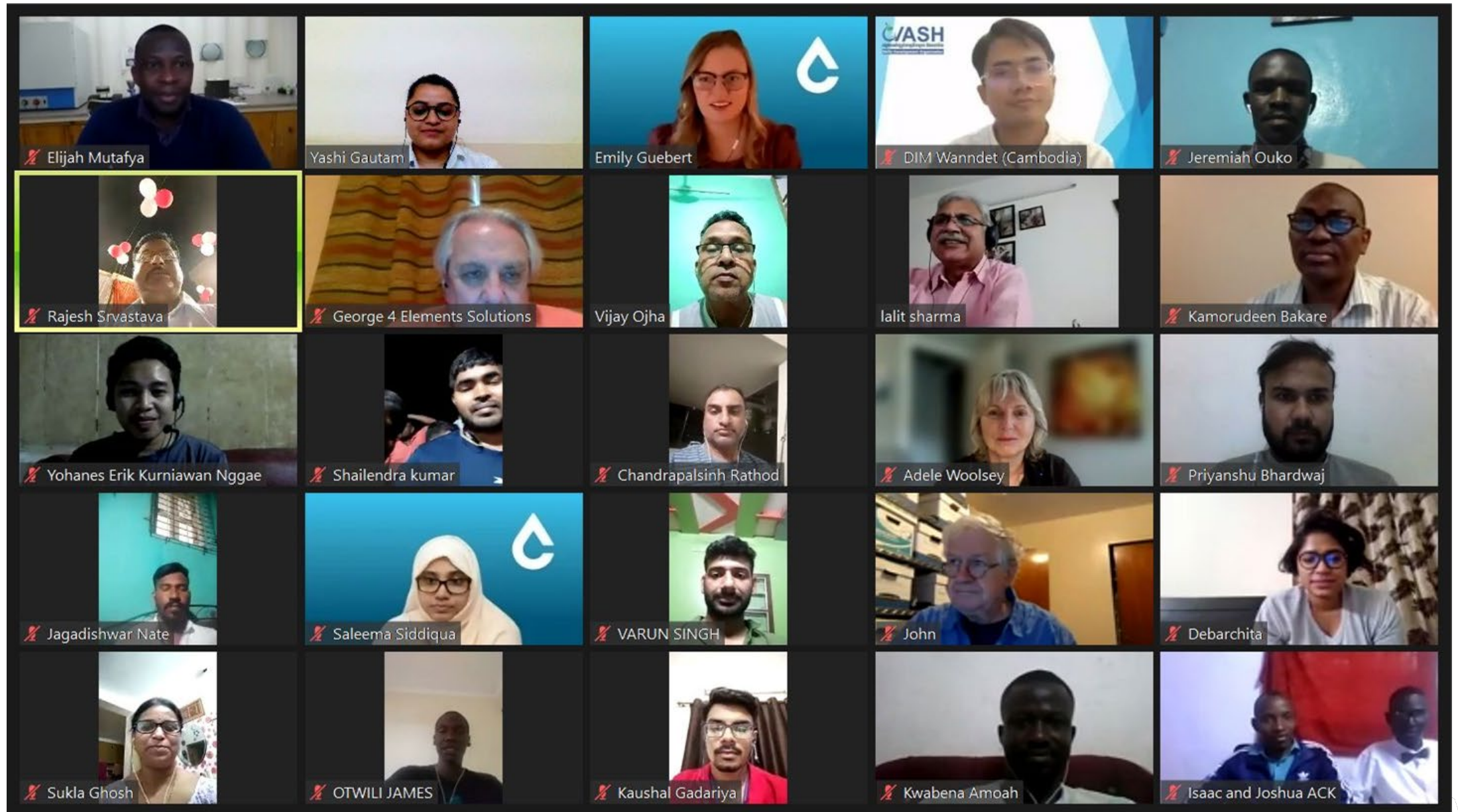
Town of Glenburnie-Birchy
Head-Shoal Brook

Town of Branch





1 person ► 5,000 filters ► 25,000+ people



6 million





Ndola, Zambia, Africa



100 million
by 2030





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Thank you

Kisii County, Kenya

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