Clean and Safe Drinking Water Workshop - Summary

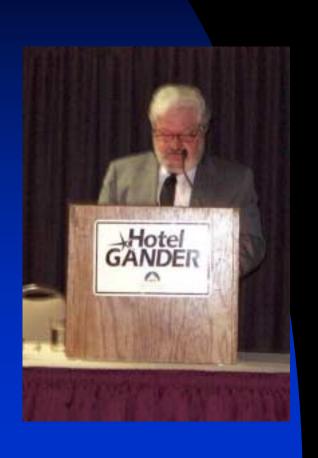




GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Environment

Gander, March 12th, 13th & 14th, 2002

Introduction



- Welcoming remarks
 - Claude Elliott, Mayor of Gander
 - Walwin Blackmore, Mayor of Grand Falls – Windsor and President NLFM
 - Ken Dominie, Assistant Deputy Minister of Environment

Martin Gravel, P.Eng CH2M HILL Canada

- Transitioning from Conventional
 Treatment to Integrated Treatment
- Membrane Filtration Application from Inside to Outside
 - "Old Friend" Traditional water treatment, review of the past and look at new trends. The "weakest link"
 - Membrane technology is growing rapidly due to smaller, cheaper and better systems

Amir Salama, P.Eng OZOMAX Ltd.

- Ozone Technology and Applications
 - Ozone is an alternate form of disinfection. It is a powerful chemical and does not create some of the DBP side effects.
 - How ozone is produced, applied in water systems and comparative benefits.

Bob Helleur, Ph. D. Memorial University Newfoundland

- Chemistry of Drinking Water Purification: a Balancing Act
 - Various alternates have benefits and advantages over others.
 Sometimes those alternatives have to be rationalized for example in "cost vs acceptable water quality"

Jackie Leinburger, P.Eng Trojan Technologies Inc.

- Disinfection of Drinking Water with Ultraviolet Light
 - UV light theory and how it deactivates harmful pathogens.
 - ◆ Very effective for Cryptosporidium
 - High relative cost effectiveness for small systems

Walter Schajnoha ProMinant Fluid Controls

- Chloramination in Drinking Water Systems
 - ◆ Interaction of Chlorine + Ammonia
 - Low DBPs, good residual applications
- Chlorine Dioxide in Drinking Water Systems
 - Very effective disinfectant
 - Applications can be sensitive to operating parameters and DBPs

Derek Proulx, P.Eng US Filter, Wallace & Tiernan

Products

- Chlorination Equipment and Accessories
 - How to get chlorine into the water
 - ◆ How to measure it
 - How to optimize the application

Cyril McCarthy, P.Eng Department of Municipal and Provincial Affairs

- "Improving Operation and Maintenance of Water and Sewer Systems - Programs Available from the Department of Municipal and Provincial Affairs
 - Operator training and certification?
 - Review of existing MPA programs
 - Municipal Capital Works
 - Disinfection Assistance Program
 - Regional Cooperative Initiative

Graham Gagnon, Ph.D. Dalhousie University

- Overview and Framework for Selection of Water Treatment Process
 - Objectives of water treatment
 - Physical treatment methods
 - Disinfection
 - Distributions systems

Willard D'Eon, P.Eng CBCL Limited, Halifax

- Point of Entry and Point of Use Filters
 - What filters and devices are recommended?
 - Standards NSF, CSA
 - Pros and cons of various types
 - Solutions for various problems

Thank you!

Exhibitors:



Atlantic Technical Services Ltd.

Brimac Carbon/Jade Water Treatment

Flotech Enterprises Ltd.

Pall (Canada) Ltd.

K & D Pratt/Tubecraft

Kean's Pump Shop Ltd.

MGI Limited

Sansom Equipment Ltd.

Western Pump Services

Thank you!

Participants:



Thank you!

Please provide your comments to us on any matter you wish to mention about this workshop so we can address those matters in the future

If you would like to have a colour version of these presentations, please check our web site and we will have them there for you to download