



International Ozone Association Pan American Group

North American Regional Conference - Ozone Operations Workshop
Massachusetts Water Resources Authority, John J. Carroll WTP
Wednesday, May 6, 2009

The International Ozone Association is pleased to present this special Operations Forum & Workshop in partnership with our hosts, the Massachusetts Water Resources Authority.

OBJECTIVE:

Conduct demonstration and "hands-on" workshops for several activities encountered in water treatment plant Ozone systems operations and maintenance. The estimated duration of this workshop is about 5 hrs.

AUDIENCE:

Water treatment professionals including plant operators, instrument and maintenance staff and utility managers who use or may use ozone for disinfection or other purposes, engineers who design ozone systems for water treatment and ozone system suppliers and technicians who install and start up ozone equipment.

PRESENTERS:

Kerwin Rakness, Process Applications, Inc., Fort Collins, CO

Dave Coppes, Ken Perry, Jim Muri, Guy Foss & selected MWRA operations, instrumentation and maintenance staff



9:00 Introduction & Overview of John J. Carroll WTP Ozone System

*Attendees will now be split into two groups, to alternate between the midday sessions before & after lunch.
The entire workshop will reconvene at 1:45 PM.*

10:00 Session 1:

Ozone System Tour & Ozone Process Calculations

Ozone process data collected during the tour will be used to calculate ozone production, dose, generator specific energy (kWh/lb), ozone cost, contactor transfer efficiency, and disinfection credit. A spreadsheet for calculating ozone process parameters will be given to participants to take home and use.

Session 2:

Ozone Residual Grab Sampling & Verification of On-line Residual Monitors

This session will involve "hands-on" participation in ozone residual grab sampling and verification of residual analyzer calibration status. The gravimetric indigo method and Hach ampules will be used.

11:30 Lunch

12:15 Groups A & B proceed to their second session

1:45 Session 3:

Ozone Emergency & Preventive Maintenance Checklist

MWRA staff will review and discuss their "checklist" of maintenance activities, issues and considerations for ozone systems developed during four years operating experience.

3:00 Adjourn

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Join Us!

REGISTRATION FEES:

\$110 - BY APRIL 3
\$130 - AFTER APRIL 3

FOR MORE INFORMATION &
PRICING FOR THE IOA / IUVA
2009 REGIONAL CONFERENCE,
PLEASE VISIT
www.io3a.org/boston2009.html

**REGISTRATION FEE INCLUDES WORKSHOP,
TRANSPORTATION, REFRESHMENT BREAKS & LUNCH**

PARITICIPATION WILL BE LIMITED TO THE FIRST 60 REGISTRANTS.

CEU CREDITS WILL BE AVAILABLE FOR THIS PROGRAM.

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hosts, the Massachusetts Water Resources Authority.**

PARTICIPANT INFORMATION:

Last Name: _____ First Name: _____ IOA Member IUVA Member
 Nonmember _____
(Other, Please Specify)

Organization: _____ Position: _____

Address: _____
Street City State Country Postal Code

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