



## TRAINING ANNOUNCEMENT

# Water Fluoridation: Principles and Practices Courses February 10-12, 2015: Sacramento California

Next training will be September 2015 in Murfreesboro, TN

The CDC Division of Oral Health provides training on the basic engineering practices, operation, administration, and management of a state fluoridation program for community water systems. This course is designed primarily for state-employed engineers, fluoridation program managers, program administrators, and specialists involved with state water fluoridation programs. However, other personnel such as state and water utility staff involved in drinking water systems, state dental directors, and consulting engineers have benefited from this course.

The three-day training will be held from 8 a.m. on Tuesday, February 10, through 12 noon on Thursday, February 12. The course will be conducted at the Hilton Sacramento Arden West and the City of Sacramento Fairbairn Water Treatment Facility. CDC will provide transportation between the hotel and the Fairbairn WTF for the laboratory portion of the training. The course includes information on fluoridation and public health, fluoride additives, fluoridation equipment, system design, analytical procedures, fluoridation monitoring, and state program requirements. The instructional methods include lectures, group discussion, and hands-on training. This course has been certified for 1.80 CEU credits, or 18 Professional Development Hours. This CEU is certified as course number EV1805. CDC has been approved as an authorized provider by the *International Association for Continuing Education and Training* (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. It has also been approved for up to 18.5 ADA CERP CEU credits through the *American Association of Public Health Dentistry* dependent on extension of the AAPHD acceptance for CERP. A preliminary agenda and registration application are attached.

In addition to the water fluoridation course, a training session on use of the CDC Water Fluoridation Reporting System (WFRS) will be held on Monday, February 9, from 1 p.m. to 5 p.m. This session is designed both as an introduction to WFRS and for those who wish to become more proficient in its use. In order to have the full advantage of this training, participants should bring a laptop computer equipped with wireless internet capability so they can access WFRS via the Internet during the class. CDC will not provide laptop computers. Those without computers will still benefit by participating in the class, but use of a computer will allow the student to gain the best understanding of the use of WFRS. CDC offers 0.3 CEU for this course. This CEU is certified as course number EV1806. For information on WFRS, see

[http://www.cdc.gov/fluoridation/factsheets/engineering/wfrs\\_factsheet.htm](http://www.cdc.gov/fluoridation/factsheets/engineering/wfrs_factsheet.htm)

If you are interested in attending this training, please submit a completed registration application as soon as possible. Preference will be given to state fluoridation program engineers, administrators, and state program specialists; remaining spaces will be filled on a "first-come" basis. Due to space restrictions, registration for the Sacramento course is limited to 21 attendees. There is no registration fee for the course, but attendees will be responsible for their own transportation to Sacramento, lodging, and meals. CDC is unable to subsidize the costs of any attendees. Additional information on transportation, hotel, and the course will be provided when you register. CDC, our planners and our content experts wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, and have reviewed the content to ensure there is no bias.

For further information, contact Kip Duchon, P.E., National Fluoridation Engineer, at

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Faculty for this course are:

Kip Duchon, MS Environmental Engineering, PE, National Fluoridation Engineer, CDC  
Scott Presson, DDS, Senior Dental Officer, CDC

EV 1806—Use of Water Fluoridation Reporting System Objectives:

- Explain the role of WFRS as a national surveillance tool and state data reporting system
- Present the data structure and considerations of applicable fields
- Using a self-directed activity guided by a series of prompts, practice the skills covered in the training

EV 1805—Water Fluoridation Principles and Practices Objectives:

- Explain the public health and regulatory considerations related to water fluoridation practice
- Discuss fluoridation additive, equipment, and operational procedures
- Evaluate and critique laboratory procedures and practices
- Explain the context of water fluoridation to water treatment
- Manage water fluoridation program activities
- The history, development, and implementation of water fluoridation

If you have any questions or problems, contact:

*CDC/ATSDR Training and Continuing Education Online*

1-800-41TRAIN (1-800-418-7246)

Email at [ce@cdc.gov](mailto:ce@cdc.gov)

Accreditation Statements:

**IACET Continuing Education Units (CEU):**

The CDC has been approved as an authorized provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. CDC is authorized by IACET to offer (2.0) ANSI/IACET CEUs for EV 1805 and 0.3 ANSI/IACET CEUs for EV1806.

**Disclosure Statements:**

CDC, our planners, and our presenters wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters. Presentations will not include any discussion of the unlabeled use of a product or a product under investigational use. There is no commercial support for this activity

**ADA CERP Continuing Education Units (CEU):**

*This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP) through joint efforts between the American Association of Public Health Dentistry (AAPHD) and the Centers for Disease Control and Prevention. AAPHD is an ADA CERP Recognized Provider. AAPHD designates this activity for up to 18.5 continuing education credits. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.*

*The current term of acceptance extends from 11/1/2012 through 12/31/2014. Provider ID#214686.*

*AAPHD has recently requested another term of acceptance. To verify this request has been approved, you may contact the AAPHD office at [info@aaphd.org](mailto:info@aaphd.org).*

*Concerns or complaints about a CE provider may be directed to the provider or to ADA CERP at [www.ada.org/cerp](http://www.ada.org/cerp).*

# Water Fluoridation Principles and Practices

## A G E N D A

### Monday (*Optional day for WFRS users*)

12:45 - 1:00      Registration and sign-in (*We start promptly at 1:00 P.M.*)

1:00 - 5:00      Instruction on use of  
Water Fluoridation Reporting System

- *Overview of WFRS*
- *Data structure*
- *Water system records*
- *Entry of data and reports*
- *Practice session*

Attendees of this optional  
WFRS training should bring  
their own computer with  
wireless capability

### Tuesday (*First day for all participants*)

7:45 - 8:00      Registration and sign-in (*We start promptly at 8:00 A.M.*)

8:00 - 8:30      Opening Remarks  
- *Introductions/Course Expectations*  
- *Course Objectives*

8:30 - 10:30      Fluoridation and Public Health  
- *History of fluoridation and the problem of tooth decay*  
- *Fluoride's mechanism of action and benefits*  
- *Enamel fluorosis*  
- *Public health issues related to fluoride*

10:30 - 10:45      Break

10:45 - 12:00      Fluoride Additives  
- *Fluoride compounds in general*  
- *Additives used*  
- *Specifications*

12:00 - 1:30      Lunch

1:30 - 2:00      Regulatory Perspective  
- *EPA and Water Fluoridation.*  
- *M. C. L. and S. M. C. L.*  
- *Monitoring Requirements*  
- *Public Notification*

# Fluoridation Principles and Practices

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- 2:00 - 2:45**      **Fluoridation Equipment**
- *Method of feeding fluoride additives*
  - *Metering pumps*
  - *Fluoride additive equipment*
  - *Day Tanks*
  - *Ancillary equipment*
- 2:45 - 3:00**      **BREAK**
- 3:00 - 4:00**      **Design of Fluoridation Systems**
- *Water Treatment Context*
  - *Planning and Permitting*
  - *Design Basis*
  - *Calculations*
  - *Selecting Pumps*
- 4:00 -5:00**      **Risk Communication**
- *Communicating with the public on complex issues*
  - *Strategies of communicating risk*

## Wednesday

- 8:00 - 9:30**      **Health Effects and Current Issues**
- *Epidemiology of Peer Reviewed Studies*
  - *Systematic scientific reviews and how they consider fluoridation*
  - *Scientific review of common claims on fluoridation*
- 9:30 - 9:45**      **Break**
- 9:45- 10:45**      **Chemistry of Fluoride Analysis**
- *SPANS colorimetric determination*
  - *Specific Ion Electrode determination*
  - *Errors and methodology interferences*
- 10:45 - 11:00**      **Laboratory Safety and Session Directions**
- 11:00 - 11:30**      **Management of State Programs**
- *How Programs are Organized*
  - *EARWF*
  - *ASTDD Best Practices*
- 11:30 - 12:00**      **Data Management and CDC Resources**
- *General*
  - *WFRS*
  - *Proficiency Testing*
  - *My Water's Fluoride*
  - *Oral Health Maps*
  - *Program Support*

