

WESTAR Council

Fundamentals of Dispersion Modeling

September 13-14, 2017

REGISTRATION DEADLINE:
Friday, August 11, 2017

Washington Department of Ecology

300 Desmond Drive SE
Lacey, WA 98503
Phone: 360-407-6000

Attendees are Required to Provide a Laptop
Computer (see below)



REGISTRATION INSTRUCTIONS:

First Time Users (www.APTI-Learn.net):

1. Click on the “First time user? Click here to register” link in the upper right-hand corner of the webpage;
2. First screen requires: 1) work email address; 2) first and last names; 3) password; and 4) security question;
3. Second screen asks about affiliation/agency. There are two options for filling out this section:
 - Agency Quick Search, or;
 - Affiliation/Agency
4. Third screen includes a list of job functions and other profile information. You can click as many (or few) job functions as appropriate. Once you have completed this third screen, you are done setting up your profile.

After completing the profile:

5. Click the “Register” tab on the left side, or the “Register” bubble in the middle of the page;
6. Scroll down the 2017 Training Calendar until you see the training course that you are interested in registering for;
7. On the right side of the table you will see a “register” link;
8. Click the “register” link, and voila you are registered (be patient it takes a few seconds for the confirmation note to pop-up);
9. You will receive an automatically generated email saying that you have been placed on a waiting list (this is so unapproved attendees can be weeded out).
10. Once approved, you will receive a second email saying you are enrolled.

Previously Registered Users (www.APTI-Learn.net):

1. Enter email address and password in appropriate spaces;
2. Go to step 5 (above) and follow directions.

*IF YOU NEED ASSISTANCE REGISTERING FOR A COURSE PLEASE
CONTACT: JEFF GABLER (503) 478-4955 or JGABLER@WESTAR.ORG*

WEDNESDAY, SEPTEMBER 13, 2017

8:00	am	Introductions
8:30	am	Regulatory Requirements
9:15	am	Air Dispersion Modeling Overview
10:15	am	Break
10:30	am	AERSCREEN Example Problem
11:00	am	Dispersion Theories & Concepts
12:00	noon	Lunch (on your own)
12:45	pm	Meteorology & Modeling (Part 1)
1:45	pm	Gaussian Plume Problem Solving
2:30	pm	Break
2:45	pm	Meteorology & Modeling (Part 2)
3:15	pm	Meteorology Review Problems
3:30	pm	Introduction to AERMOD & AERSCREEN
5:00	pm	Adjourn for Day

THURSDAY, SEPTEMBER 14, 2017

8:00	am	Modeling Inputs & Outputs
9:15	am	Special Modeling Topics <ul style="list-style-type: none">• Plume Rise• GEP
10:15	am	Break
10:30	am	Special Modeling Topics <ul style="list-style-type: none">• Downwash• Terrain
11:15	am	AERSCREEN Model Problems
12:15	pm	Lunch (on your own)
1:00	pm	Permit Modeling – Guidelines on Air Quality Models
2:30	pm	Break
2:45	pm	AERMOD Runs – DOS & GUI – AERMET, AERSURFACE, AERMAP
3:30	pm	Model Review – Protocols, Maps, Results
4:15	pm	Flares, Risk, Odors
5:00	pm	Adjourn

ABOUT THE TRAINING

This 2-day dispersion modeling course is designed for modelers, permit writers, and meteorologists, and others interested in increasing their understanding the principles of air dispersion modeling. The course is a mix of lecture and hands-on elements. Attendees will how models incorporate the effects of transport and dispersion, atmospheric turbulence, stack characterization, building downwash and terrain impacts. Attendees will learn about:

- Regulatory Requirements
- US EPA Models including AERMOD & AERSCREEN
- Dispersion Theories & Concepts
- Plume Rise
- Role of Meteorology
- Model use and Interpretation within Regulatory and Non-Regulatory Contexts of Application

SPACE LIMITATION: Registration is limited to 20 attendees. Air quality staff from the fifteen western states receive registration preference.

REGISTRATION FEES: There are no registration fees for state, local or tribal air quality agency staff. For federal employees, the registration fee is \$750.

TRAINING LOCATION

Washington Department of Ecology

300 Desmond Drive SE
Lacey, WA 98503
Phone: 360-407-6000

COMPUTER REQUIREMENTS

HARDWARE:

- Intel or AMD Processor, 32 or 64 bit. 500 Megahertz (MHz) or higher
- 300 Megabytes (MB) Available Disk Space for the Application Install. Meteorological Data Files May Require Significantly More.
- 1 Gigabyte (GB) RAM
- 1024 x 768 Minimum Display Resolution
- Video Card with 3D Hardware Acceleration Required for 3D Views
- Mouse or Another Pointing Device

SOFTWARE:

- Windows 10, Windows 8, Windows 7, Windows VISTA, Windows Server 2008 or Windows Server 2012
- Microsoft .NET Framework 2.0 or later

HOTEL INFORMATION

If lodging accommodations are necessary, attendees/speakers are required to make their own reservations. Below is a list of hotels that are near Washington Department of Ecology but are not within short walking distance. Please check with the hotel for the availability of governmental rates; most hotels offer these rates.

Quality Inn & Suites – Lacey

120 College Street SE
Lacey, WA 98503
Phone: (360) 493-1991

Comfort Inn – Lacey

4700 Park Center Avenue NE
Lacey, WA 98516
Phone: (360) 456-6300

La Quinta Inn: Olympia - Lacey

4704 Park Center Ave Northeast
Lacey, WA 98516
Phone: (360) 412-1200

Ramada – Olympia

4520 Martin Way E
Olympia, WA 98516
Phone: (360) 459-8866

Holiday Inn - Lacey

4460 3rd Avenue SE
Lacey, WA 98503
Phone: (360) 491-7985