



# BMPTRAINS Model Training Workshop (6 CEU/PDH Hours)



**Date:** April 20, 2017

**Time:** 9 am – 4 pm

**Location:** Renaissance Orlando Airport Hotel (on SR 436 at last intersection before airport)  
5445 Forbes Place; Orlando, FL 32812 - Complimentary self-parking

**Workshop Objectives:**

1. Understand the theory essential for estimating annual runoff volumes, mass loadings, and nutrient mass removal
2. Understand the basis of removal for 15 Best Management Practices
3. Define input data required for the BMPTRAINS Program
4. Use BMPTRAINS for the selection of stormwater best management practices

**Agenda:**

TIME	INSTRUCTOR	TOPICS
8:00-9:00 am	--	Registration and Continental Breakfast
9:00-9:20 am	Wanielista	*Introduction to Version 8.1 BMPTRAINS *Training expectations
9:20-10:15 am	Livingston	*Using Low Impact Design BMPs and BMPTRAINS to Achieve and Verify Higher Levels of Stormwater Load Reduction
10:15-10:30 am	--	Morning Break
10:30-12 noon	Harper	*Runoff generation *Runoff emc values *Calculation of mass loadings *BMP removals and BMP trains
12:00-1:00 pm	--	Lunch
1:00-2:15 pm	Hardin and Wanielista	*Using the BMPTRAINS model *Disconnecting impervious areas using depression storage options (such as rain gardens, tree wells, planter boxes, and swales) *Typical retention basins and wet detention ponds and other LIDs *Sorption media applications *New options within Version 8.4 *Others as defined by participants
2:15-2:30 pm	--	Afternoon Break
2:30-3:30 pm	Hardin, Wanielista and Livingston	*BMPTRAINS case studies (continued) *New information on GIS, co-mingling cost analysis, and others
3:30-4:00 pm	Wanielista, Hardin, Harper, and Livingston	*Discussion *Comments *Review

**Course Materials:** For maximum benefit, each participant should have a computer with the latest Release 8.4 BMPTRAINS model loaded. The model download is free and is available at [www.stormwater.ucf.edu](http://www.stormwater.ucf.edu)

**Instructors:** Marty Wanielista, Harvey Harper, Eric Livingston, and Mike Hardin

**CEU Hours:** All attendees present for the entire workshop will receive a Certificate of Attendance. **If you wish to receive credit for 6 CEU/PDH hours, please add an additional \$35 to your registration fee.**

**Cost:** **Workshop Fee is \$199** and includes continental breakfast, buffet lunch with beverage service, and 2 breaks

**Hotel:** If you would like to stay the night before, please contact the Renaissance Hotel directly at 407-240-1000. Tell them you are attending the April 20<sup>th</sup> Workshop for a discounted rate. There are other overnight accommodations close-by also.

**REGISTRATION:**

To pre-register and reserve your seat at the Workshop, please e-mail your information to:

Sharon Darling at: [sdarling@erd.org](mailto:sdarling@erd.org).

To confirm your reservation, please complete the information below and mail with your check to:

Sharon Darling  
Environmental Research & Design, Inc.  
3419 Trentwood Blvd., Suite 102  
Belle Isle, FL 32812-4864

Please make checks payable to: **Environmental Research & Design, Inc.**

(Cut here and mail along with your registration check)

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**REGISTRATION FORM -- BMPTRAINS WORKSHOP  
April 20, 2017**

Attendee's Name: \_\_\_\_\_

Florida PE License #: \_\_\_\_\_ Requesting PDH/CEU Credits:  yes  no

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Special Dietary Request: \_\_\_\_\_