



STATEWIDE WASTEWATER OPERATOR TRAINING CENTER
WATER RESOURCES RESEARCH CENTER, UNIVERSITY OF HAWAII
HONOLULU, HAWAII



TRAINING SESSION ANNOUNCEMENT
319 NEW AND EMERGING SECONDARY TREATMENT TECHNOLOGIES (ADVANCED)

County: Honolulu
Location: University of Hawaii at Manoa
Holmes Hall, room 287
2540 Dole Street, Honolulu
Dates: **March 22 and 23, 2016**
Times: 8:00 a.m. – 11:00 a.m.
Lunch (11:00 a.m. – 12:00 p.m.)
12:00 p.m. – 3:00 p.m.
Audience: Operators
Educational Point: **1.0 CEU**
Instructor: John Harrison
Prerequisite: *Course #210 or Vol I of Ken Kerri's course*

COURSE DESCRIPTION

Day 1 will cover new technologies for old processes to both stretch capacity and optimize efficiency. Students will learn about modernizing techniques using compartmentalized biological selectors and how to turndown aeration equipment for energy conservation. Hybrid processes covered include selector activated sludge, cannibal activated sludge and vertical loop reactors. Modernization of conventional fixed film systems includes the use of moving bed media and flushing techniques to slough biosolids from biotowers. Day 2 will cover emerging processes with new technologies. Emerging technologies like submerged biological filters (SBFs) and membrane bioreactors (MBRs) do not require secondary clarifiers and eliminate the need for conventional filters to produce R-1 water. Operators will learn if these emerging processes have application at their facility. Lessons learned and case history discussions will help participants judge if emerging technologies have been adequately developed. Energy savings techniques using new aeration equipment and high speed blowers are also covered.

REGISTRATION

1. All Treatment Plant Personnel (County, State, Private):

TUITION: \$110

Registration and payment for all students is completed online at:

www.outreach.hawaii.edu/noncredit/courses

The class will be cancelled if less than 15 students are registered by the deadline.

The maximum enrollment for this class is 30

**Deadline:
Mar 15, 2016**

Additional Information available at

SWOTC website: www.wrrc.hawaii.edu/swotc.shtml

Email: uhwwtrainingcenter@gmail.com

Phone: (808) 956-7298

EQUAL OPPORTUNITY

Any disabled person requiring special needs will be accommodated. Any disabled person requiring special assistance should contact the Administrator at 956-7298 or uhwwtrainingcenter@gmail.com.

For more information please visit our website: www.wrrc.hawaii.edu/swotc.shtml