

# O&M SPECIALTY WORKSHOP

## Tame Your Workload with Reliability Centered Maintenance (RCM)



Is your O&M team feeling overloaded and struggling to prioritize work orders? Maybe you see the need for a more strategic approach to maintenance? This workshop provides an in-depth look at asset management philosophies used by many wastewater agencies across the country. The system is known as reliability centered maintenance, or RCM, and provides strategies for managing maintenance priorities.

Learn from some of California's leading wastewater O&M experts during these interactive workshops. Get a jump on managing your facility's assets by learning the latest trends and techniques and listening to real-world case studies.

**Wednesday, March 8th**  
**Monterey Regional  
Water Pollution Control  
Agency**

14811 Del Monte Blvd.  
Marina, CA 93933

**Wednesday, March 15th**  
**City of Redding**

City of Redding Corporation Yard  
20055 Viking Way, Building #4  
Redding, CA 96003

**Wednesday, June 14th**  
**Encina Wastewater  
Authority**

6200 Avenida Encinas  
Carlsbad, CA 92011

### After attending this workshop, participants will be able to:

- Describe RCM and comprehensive asset management
- Develop procedures for your facility including: asset register, asset management planning, and risk based O&M
- Know what steps to take when a failure occurs

### Who should attend:

- O&M leaders
- Mechanics
- Electricians
- Instrumentation technicians
- Maintenance schedulers
- Inventory managers
- Wastewater operators
- Engineers and support staff

Earn up to 6.1 CWEA contact hours towards Industrial Waste Treatment Operator, Mechanical Technologist, Electrical & Instrumentation, Collection System Maintenance.

**EARLY BIRD RATE DEADLINE FEBRUARY 24 FOR MARCH WORKSHOPS  
AND JUNE 2 FOR JUNE WORKSHOP**



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## Workshop Program

7:30 a.m.	<b>Registration/Coffee/Light Snack</b>
8:30 a.m.	<b>Welcome, Opening Remarks and Today's Agenda</b>
8:45 a.m.	<b>Overview of RCM and Comprehensive Asset Management</b>
9:00 a.m.	<b>Introduction to RCM Principles</b>
9:15 a.m.	<b>Developing an Asset Register and Hierarchy</b>
9:45 a.m.	<b>Process Interviews and One Time Opportunities</b>
10:15 a.m.	<b>Break</b>
10:25 a.m.	<b>Failure Mode Effects Analysis</b>
11:10 a.m.	<b>Questions and Answers</b>
11:40 a.m.	<b>Lunch</b>
12:10 p.m.	<b>Overview of Asset Management Planning</b>
12:25 p.m.	<b>Risk Based Operations and Maintenance Task Selections</b>
12:55 p.m.	<b>Preventive Maintenance and Operator Routine Duties Implementation</b>
1:25 p.m.	<b>Lock Out Tag Out Procedures</b>
1:55 p.m.	<b>Break</b>
2:05 p.m.	<b>Critical Asset Repair Procedures</b>
2:25 p.m.	<b>Risk Based Spare Parts Implementation</b>
2:45 p.m.	<b>Questions and Answers</b>
3:15 p.m.	<b>Closing Comments</b>



**Ralph Stevens**



**Gerald Fejarang**



**Jeffrey Foushee**

## SPEAKER SCHEDULE

**Monterey:** Ralph Stevens and Gerald Fejarang, PE Solutions Engineer, Pinnacle Advanced Reliability Technologies (PinnacleARTTM)

**Redding:** Ralph and Jeffrey Foushee, Solutions Engineer, Pinnacle Advanced Reliability Technologies (PinnacleARTTM)

**Encina:** Ralph Stevens and Gerald Fejarang, PE Solutions Engineer, Pinnacle Advanced Reliability Technologies (PinnacleARTTM)

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## Tame Your Workload with Reliability Centered Maintenance (RCM)

### Registration Form

Workshops sell-out please register early.

**Early Bird** (due 2/24/17 for March workshops and 6/2/17 for June workshop)

- Member \$110    Non-Member \$196  
Registration includes lunch

**Regular** (after 2/24/17 for March workshops & 6/2/17 for June workshop)

- Member \$140    Non-Member \$226  
 Full-Time Student - No Cost (Provide proof of college attendance w/minimum of 9 units.)


#### Select Location

- Monterey 3/8/2017  
 Redding 3/15/2017  
 Encina 6/14/2017

#### PLEASE PRINT OR TYPE INFORMATION (attach form with additional attendees)

NAME FOR BADGE: \_\_\_\_\_  
FIRST NAME: \_\_\_\_\_ LAST NAME: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
AGENCY/COMPANY: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
PHONE: \_\_\_\_\_ E-MAIL: \_\_\_\_\_  
EMERGENCY CONTACT: \_\_\_\_\_ EMERGENCY PHONE: \_\_\_\_\_

CWEA MEMBER    WEF MEMBER   or    CA-NV AWWA MEMBER (must have current membership for member rates)

 **Special Services:**  Please check here if you require special accommodations to fully participate. Attach a written description of your needs and return it to CWEA 30 days before the conference.

**Dietary restrictions:**  Please check here to indicate dietary restrictions \_\_\_\_\_

Please indicate payment method:  CHECK    PURCHASE ORDER (attached)

VISA    MASTERCARD    DISCOVER    AMEX

Name of Account holder: \_\_\_\_\_

Account number: \_\_\_\_\_

Expiration date: \_\_\_\_\_ Billing zip code: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

#### Registration Options:

1. Register online at [mycwea.org](http://mycwea.org)
2. Send registration form and payments to:

##### CWEA Workshops

7677 Oakport Street, Suite 600, Oakland, CA 94621-1935

Fax (510) 382-7810

Please make checks payable to: CWEA 2017 O&M

#### REGISTRATION QUESTIONS?

Contact MEMBER SERVICES: 510.382.7800 x160

Full payment or purchase order is required to process registrations. If you have to cancel, written cancellation notice is required and must be received at least 15 days prior to the workshop date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to the event. A written special service request is required 30 days in advance.

Need help? We're here for you!

Contact **MEMBER SERVICES**

510.382.7800 x160

[memberservices@cwea.org](mailto:memberservices@cwea.org)

Questions about the content?

Contact: **Ralph Stevens**

**MAINTENANCE SUPERINTENDENT  
CARMEL AREA WASTEWATER DISTRICT**

831.238.1890

[Stevens@cawd.org](mailto:Stevens@cawd.org)

Sponsorship questions?

Contact: **Alec Mackie**

**DIR. OF COMMUNICATIONS**

510-382-7800 x114 or

[amackie@cwea.org](mailto:amackie@cwea.org)

REGISTER ONLINE AT MYCWEA.ORG

