

# WATER WELL DESIGN & CONSTRUCTION WORKSHOP

An Engineered and Scientific Approach for Constructing Efficient Ground Water Production Wells



## DATE:

Thursday, November 8, 2018

## TIME:

8:00 am - 4:00 pm

## LOCATION:

Campbell Community Center  
1 West Campbell Avenue, #C-31  
Room: Orchard City Banquet Hall  
Campbell, CA 95008

## PRICING:

\$150 for AWWA Members  
\$250 for Non Members

This workshop is eligible for  
up to 7.0 contact hours.

## Workshop Description:

This workshop will highlight the critical components associated with the design and construction of a municipal ground water production well. The workshop presentations will address the major steps involved in the well construction process including siting criteria, material selection, formation sampling, gravel pack selection, screen slot size selection, well development, pump selection and well performance evaluation. Proper application of these design and construction techniques can maximize the well's production potential and service life. Additional topics will include the definition of well efficiency and a discussion on the hydraulic losses that contribute to drawdown in the well. The primary goal for designing and constructing an efficient well is to minimize the hydraulic losses which will reduce the drawdown in the well, thereby resulting in lower pumping costs for the well owner.

**Sponsored By:** CA-NV AWWA Water Well Technology Committee

Visit [www.ca-nv-awwa.org](http://www.ca-nv-awwa.org) for more information  
or call the Section Office at 909.481.7200

 American Water Works Association  
**California-Nevada**Section

# **WATER WELL DESIGN & CONSTRUCTION WORKSHOP**

**An Engineered and Scientific Approach for Constructing Efficient Ground Water Production Wells**

## **Water Well Technology Workshop**

November 8, 2018

Campbell Community Center

### **Preliminary Agenda**

- 7:30 -           **Registration**
- 8:00 – 8:15    **Opening Remarks & Introduction**
- 8:15 – 9:00    **Data Review and Regulatory Compliance Requirements for Developing a Preliminary Well Design; Scott Lewis, Luhdorff & Scalmanini**
- 9:00 – 9:45    **Well Design Considerations Using Life-Cycle Cost Analysis; *Chris Coppinger, Geoscience Support Services***
- 9:45 – 10:30   **Well Drilling Techniques and Construction Logistics; *Mark Howard, Layne Granite***
- 10:30 – 10:45 **Break**
- 10:45 - 11:30 **Well Casing Materials and Screen Design Principles; *Kevin McGillicuddy, Roscoe Moss Company***
- 11:30 – 12:45 **Lunch (provided)**
- 12:45 – 1:30   **Borehole Analytics Using Water Quality Tests and Geophysical Logs; *Larry Ernst, Wood Rodgers***
- 1:30 - 2:15     **Final Well Design and Construction Procedures; *Russ Kyle, KYLE Groundwater***
- 2:15 – 3:00     **Pump Design and Selection Procedures; *Mark Howard, Layne Granite***
- 3:00 – 3:45     **Well Efficiency Evaluation & Performance Optimization, *Ken Loy, West Yost Associates***
- 3:45 - 4:00     **Final Q & A , Adjourn**

# WATER WELL DESIGN & CONSTRUCTION WORKSHOP

An Engineered and Scientific Approach for Constructing Efficient Ground Water Production Wells

## Registration Form

AWWA Member \$150 / Non-member \$250 – Campbell – November 8, 2018

Attendee Name: \_\_\_\_\_

Attendee Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Cell Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_

Attendee E-mail: \_\_\_\_\_

Company Name: \_\_\_\_\_

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Company Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

AWWA Member #: \_\_\_\_\_

**\*Registration will not be processed without PAYMENT**

Make checks payable, in U.S. funds, to CA-NV AWWA

Check # \_\_\_\_\_ PO # \_\_\_\_\_  
(Must be accompanied by a physical copy of the Purchase Order)

**Payment Method: Credit Card: Visa \_\_\_\_\_ MC \_\_\_\_\_ AMEX \_\_\_\_\_**

Name on Card: \_\_\_\_\_

Credit Card # \_\_\_\_\_

Exp. Date: \_\_\_\_\_ Billing Zip Code: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Total Amount Due: \_\_\_\_\_

If you need a copy of your receipt, please enter e-mail address:

E-mail \_\_\_\_\_

**To register or cancel your registration at any time, please contact Shobhana at 909.291.2117.**

Please fill out this form completely and mail to:

**CA-NV Section AWWA  
10435 Ashford St., 2nd Floor  
Rancho Cucamonga, CA 91730**

Or you can fax it to (909) 291-2107 (secure fax line). Or email it to [schickarmane@ca-nv-awwa.org](mailto:schickarmane@ca-nv-awwa.org)

### CONTACT HOURS

All Contact Hours are emailed. In order to receive your Contact Hours, you must include your email address on this form. For attendance verification you must sign in and out. You must be in attendance for the full time in order to be awarded full credit. If your attendance cannot be verified you will not be issued Contact Hours. The Contact Hours advertised by the CA-NV AWWA are only an estimate, final hours are determined upon an audit of your record. It can take up to 30 days to process and issue your Contact Hour certificates.

### CA-NV AWWA CANCELLATION POLICY

Requests for refunds and requests for transfers must be made in writing and are subject to the following conditions: Full refund of fee paid (minus \$50.00 handling fee) will be issued for cancellations received more than two weeks prior to class date. All fees are non-refundable thereafter. Transfers are based on the availability. No transfer requests will be authorized within 72 hours prior to the class date.