

# Well Performance and Sustainability Seminar



**Before**



**After**

February 1, 2018  
10:00 AM to 2:30 PM  
Lunch Provided

Megaplex 20 Theaters at the District  
11400 South Bangerter Highway  
South Jordan, Utah

Presented by:

**HANSEN  
ALLEN  
& LUCE<sub>INC</sub>**  
ENGINEERS

Certificates for Professional Development  
Hours will be given to Seminar Attendees



## SEMINAR HIGHLIGHTS

- Pumping System Design and Installation
- Motor Conditions
- Power Quality
- Well Monitoring
- Well Hydraulic Efficiency
- Well Development Options
- Chemical Treatment Alternatives

## SEMINAR SCHEDULE

- 9:30 - 10:00 Check In
- 10:00 - 11:00 Pumps and Motors
- 11:00 - 12:15 Well and Aquifer Interaction
- 12:15 - 12:45 Lunch
- 12:45 - 2:00 Well Performance Solutions
- 2:00 - 2:30 Questions & Answers

## SEMINAR PRESENTERS:



### PUMPS AND MOTORS:

**Ben Miner, PE** has more than 20 years of experience serving the water resource needs of municipal, industrial, and agricultural clients. He specializes in water wells, including pump, motor and related equipment selection, well casing and wellhead design, well performance evaluation, well maintenance, pumping system upgrades, materials selection, pressure transients and screen sizing. Ben designs well related piping, fittings, meters and valve systems. He

also maintains professional contacts with well and pump equipment vendors and manufacturers.



### WELL AND AQUIFER INTERACTION:

**Lance Nielsen, PE** serves as project engineer and manager for water resources engineering projects and has specialized in water resource investigation and analysis since 1999. His expertise in groundwater characterization, 2D and 3D groundwater flow and water quality modeling, well siting evaluation, well design and development, and regulatory compliance related to well drilling and operation has helped several water systems with the development of new water sources and the maintenance of existing sources. Lance has completed formal training in well drilling fluids design.



### WELL PERFORMANCE SOLUTIONS:

**Bill Bigelow, PE** has 38 years of experience in municipal water systems engineering including wells, springs, water system facilities design and construction and master planning. Bill specializes in well drilling and well rehabilitation and has completed training courses in drilling mud design and biofouling remediation.

Registration – **Deadline January 25, 2018.** Attendance is limited. Registrations will be accepted on a first-come first-served basis. Please submit lower portion with payment – Copies accepted

### Well Performance and Sustainability Seminar - February 1, 2018, 10:00 a.m.

Name	Affiliation	Registration Fee (Includes Lunch)
		\$15.00
Amount Enclosed or PO Number:		

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

Phone No. : \_\_\_\_\_

Send registration form and payment by check, money order or purchase order to:

Hansen, Allen & Luce, Inc.  
859 W. South Jordan Parkway, Ste. 200  
South Jordan, Utah 84095

For further information call Bill Bigelow,  
Ben Miner, or Lance Nielsen  
at **801-566-5599**