

# CALL FOR ABSTRACTS

## PRODUCTION BOREHOLES

**MAINTENANCE**

**MONITORING**

**REHABILITATION**

Submissions by July 5, 2019, Email to:

Dr. Seifu Kebede, Addis Ababa University, seifukebede@yahoo.com

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**Borehole Rehabilitation Conference**

**AUGUST 8, 2019**

**Addis Ababa University, Addis Ababa, Ethiopia**

Hosted and Sponsored By:



**Addis Ababa  
University**



AND

**USAID LOWLAND WATER, SANITATION AND HYGIENE (LOWLAND WASH) ACTIVITY**

# Borehole Rehabilitation Conference

August 8, 2019, Addis Ababa University, Ethiopia

## *“A Topic Whose Time Has Come”*

**Theme:** New boreholes are the common recipe/solution used by national governments and the donor community for failed or failing boreholes, and often at a great expense. What is often absent in town and village water supply implementation plans is the programming for borehole monitoring, maintenance and repairs.

Basic O&M programming as well as periodic diagnostic evaluations need to be worked into governmental and donor planning for village borehole systems. In our experience, borehole rehabilitation programs (redevelopment) and maintenance approaches need to be strengthened in most countries.

Production Boreholes are at the heart of infrastructure for groundwater-based water supply systems and represent large investments in the borehole as well as auxiliary equipment including pumps, pump housing, power sources, electrical controls, storage tanks, and the distribution piping system. Boreholes can operate efficiently for up to 25 years and longer with proper design/construction, operation, and timely maintenance. On the contrary, life cycles are shorter for boreholes that are poorly designed and constructed and/or poorly operated or attended to during operation.

This conference will provide presentations from practitioners in Ethiopia that are involved with groundwater supply development and water utility operations.

### **Who Should Attend:**

- Water Engineers and Water System Operators.
- WASH Practitioners.
- NGOs.
- Governmental Technical Officials.
- Consultants.
- Drilling Companies.
- UNICEF – WASH Reps.
- World Bank Technical.
- African Development Bank – Technical.
- Industry Groups that Utilize Groundwater for Operations.

# **Borehole Rehabilitation Conference**

**August 8, 2019, Addis Ababa University, Ethiopia**

## **Call for Abstracts for Presentations – Submit by July 5, 2019**

### **Topic Areas:**

- Borehole Performance Monitoring Case Studies.
- Borehole Maintenance Programming – Case Studies (Diagnostic Evaluations)
- Causes of Borehole Failure and Under-Performance.
- Borehole Rehabilitation Approaches, Solutions, and Case Studies.
- Borehole Design Issues:
  - ◆ Open Hole versus use of well screens in Bedrock Aquifers – the technical rationale for either approach.
  - ◆ Well screen slot size openings and filter pack designs.
  - ◆ Well screen materials and screened intervals rationale.
  - ◆ Pump placement and borehole design approaches to optimize borehole longevity.
- Case studies of microbial clogging and corrosion in boreholes.
- Chemical and biofouling potential monitoring for preventative maintenance of boreholes.

### **Email Copies of Abstracts:**

Dr. Seifu Kebede, Addis Ababa University,

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Vince Uhl, PG, UHL & Associates, Inc.

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## **Conference Program**

### **Morning:**

Presentations by Accepted Abstracts.

### **Afternoon:**

Training Sessions from Professionals on:

- (1) Borehole Diagnostic Evaluation Methodologies;
- (2) Borehole Design Approaches; and
- (3) Borehole Mechanization challenges from manual hand pumps to solar pumping systems.