

WORKSHOP OUTLINE AND SPEAKERS

Process Design of Industrial Wastewater Treatment Systems – Design Approaches and State-of-the-Art Modeling Tools – Problem Solving Sessions for Organic and Nitrogen Removal

◆ Opening Remarks and Introductions

Moderator

Joseph G. Cleary, P.E., BCEE

Principal

HydroQual, Inc., Mahwah, NJ

◆ 8:00AM – 9:45AM

Industrial Wastewater Treatment Design Approaches and Principles of Organics Removal

W. Wesley Eckenfelder, Sc.D., P.E.

Senior Technical Consultant

AquaETer, Inc., Nashville, TN

◆ 9:45AM – 10:30AM

An Approach for Selecting Water and Wastewater Management Solutions – What are the Pros and Cons of Available Technology

Joseph G. Cleary, P.E., BCEE

HydroQual, Inc.

◆ 10:30AM – 10:45AM – BREAK

◆ 10:45AM – 11:30AM

Activated Sludge Problem Solving Session – Organics Removal

W. Wesley Eckenfelder, Sc.D., P.E.

Joseph G. Cleary, P.E., BCEE

◆ 11:30AM – 12:15PM

Modeling Industrial Wastewater Treatment: Program, Challenges, and New Directives

Spencer Snowling, Oliver Schraa and Hugh Montieth

Hydromantis, Inc.

Hamilton, ON, Canada L8P 4R5

◆ 12:15PM – 1:00PM LUNCH BREAK

◆ **1:00PM – 2:00PM**

Nitrogen Removal Design Approaches and Principles

W. Wesley Eckenfelder, Sc.D., P.E.

◆ **2:00PM – 2:45PM**

Nitrogen Removal – Problem Solving Session

W. Wesley Eckenfelder, Sc.D., P.E.

Joseph G. Cleary, P.E., BCEE

◆ **2:45PM – 3:15PM**

Biowin Modeling Tool and Case Study for Nitrogen Removal

Gary M. Grey

Associate

HydroQual, Inc., Mahwah, NJ

◆ **3:15PM – 3:30PM - BREAK**

◆ **3:30PM – 4:00PM**

Phosphorus Removal Design Principles and Case Studies

Gary M. Grey

HydroQual, Inc.

◆ **4:00PM – 4:30PM**

Receiving Water Quality Analysis and Modeling Tools – State-of-the-Art

Thomas W. Gallagher, P.E.

Principal

HydroQual, Inc., Mahwah, NJ

◆ **4:30PM – 5:00PM**

Wrap-up Summary of Design Approaches and State-of-the-Art Tools – When to Use What Approach - Panel Discussion and Q&A

W. Wesley Eckenfelder

Joseph G. Cleary

George J. Kehrberger

Spencer Snowling

Gary M. Grey

Thomas W. Gallagher