

Local Co-Chair

Scott Valinski
ScottMValinski@eaton.org
920-540-0273

Local Co-Chair

Treasurer
Sponsor & Vendor Exhibits
Duncan Rhodes – Retired
DuncanRhodes@ieee.org
541-525-5777

Program Chair

Todd Legette - International Paper
Todd.Legette@ipaper.com
513-404-8641

Co-Webmaster

Pete Famighetti - Retired
Pete.Famighetti@ieee.org
602-510-7376

Co-Webmaster

Nehad El-Sherif – MNKYBR Technologies Inc.
Nehad.e.el-sherif@ieee.org
306-370-0301

Registration

Lana Deleon – TECO Westinghouse
DeleonL@TECOwestinghouse.com
512- 218-7409

**Closing Event & Awards Dinner,
Transportation**

Ryan Prickette – Rockwell Automation
rprickette@ra.rockwell.com
216-317-5450

Awards

Rory Johnson
Rory.Johnson@ieee.org
253-732-1324

Guest Program

TBD
TBD.TBD@ieee.org
xxx-xxx-xxxx



2018 PPFIC Tutorial

Pump System Efficiency and Reliability

This tutorial will cover the fundamental operation of centrifugal pumps and the factors that affect the efficiency and reliability of a pumping system. A review will be provided of basic hydraulics and the concept of “fluid head”. The concept of pump head will be developed with the formulation of a “system curve”. The importance of the pump best efficiency point (BEP) will be covered in detail. Net positive Suction Head (NPSH) and the relevance to impeller erosion will be examined with practical examples. Optimum Pump system control will be discussed. Examples will be given of good and bad installations with the methodology for making accurate site measurements. Methods will be described for the identification of solutions to potential pump system problems. An introduction will be given to the USDOE software Pump System Assessment Tool (PSAT) for pump system understanding and energy conservation.

Instructor:

Roger G Lawrence, PE, CEM, MBA, LFIEEE
DOE Steam and Pump Specialist
Rglsolutions.com



Brief Biography

Roger G. Lawrence, PE, CEM, LFIEEE, Principal Engineer RGLSolutions. Director NCSU Facilities Engineering Management (FEM), has over 50 years in the electrical industry specializing in the reliable, energy efficient control and operation of rotating machinery. He is a 2010 IEEE Life Fellow for contributions to reliable energy efficient industrial motor drive systems. Mr. Lawrence is a Professional Engineer in the states of North Carolina, Florida, Texas and Georgia with complete career experience held by National Council of Examiners for Engineering and Surveying (NCEES). Certified Energy Manager (CEM), Secretary and Working Group member of IEEE 1566. Mr. Lawrence earned his Bachelor's degree in Electrical Engineering from Imperial College London and his Master of Business Administration from Mercer University. He has authored, published, and presented over 50 technical papers and magazine articles on adjustable speed drives, power quality, optimized system efficiency and distributed generation.