



"RoHS Reliability Impact," and "Value Stream Mapping" Two presentations by Larry Akre

Sr. Procurement Quality Engineer for Emerson Process Management Rosemount Flow Division, USA

Algonquin College

Thursday, May 17, 2007 From 6pm to 9pm

Co-Sponsored by the IEEE Ottawa Section's

Reliability, Power Engineering, Robotics & Automation + Control Systems, and Engineering Management Society Chapters, plus Algonquin College Student Branch

RoHS Reliability Impact- A Reality Check

This presentation will provide an insight into the reliability concerns in the use of non lead platings. Discussion will center on the impact of RoHS in the areas of failure mechanisms, whisker growth, solder joint strength, solderability, and shelf life.

Value Stream Mapping: How does Reliability play a role in making Lean Manufacturing a Success?

This powerful tool allows an organization to fully understand the flow of products from receiving, through all process(s) (Manufacturing, Administrative, and Engineering) to finished product shipment. This process allows one to understand their Current State of affairs and allows an organization the ability to review the product flow in a systems thinking perspective. The resulting analysis will allow an organization to streamline work processes (Manufacturing, Administrative, Design) and make appropriate improvements through Kaizen events, OEE and DOE evaluations to improve First Pass Yields, thereby cutting lead times, reducing operating costs, reducing inventory (increasing inventory turns) and reducing operating costs resulting in improve reliability.

<u>Biography</u>

Larry Akre is a Sr. Procurement Quality Engineer for Emerson Process Management – Rosemount Flow Division. He has over 20 years experience in the Quality field including Military Electronics, Automotive and Medical devices. His current responsibilities are European Directive Compliance (Pressure Equipment and Hazard Location Directives) for procured raw materials, Supplier Lean Initiatives that includes Supplier Certification, Design Reviews, Process Capability Analysis, DOE, DFMEA, and PFMEA for new and existing components regarding Investment Castings, Flanges and machined parts commodities. He is a member of the following professional Organizations: American Society for Quality (ASQ), Institute of Electrical and Electronic Engineers (IEEE). He is an ASQ CQE (Certified Quality Engineer). His professional involvement ranges from being the Chief Proctor for the ASQ administration of certified exams to current Treasurer of the Twin Cities IEEE Section and current Chair of the Minnesota Reliability Consortium of IEEE.

Logistics

Registration:

To confirm a seat and food, e-mail either: <u>RaedAbdullah@ieee.org</u> -- Raed Abdullah -- Reliability <u>couillard@management.uottawa.ca</u> -- Jean Couillard, Engineering Management <u>almuhtadi@ieee.org</u> – Wahab Almuhtadi – Power Engineering <u>jsas@ccs.carleton.ca</u> – Jurek Sasiadek -- Robotics & Automation, + Control Systems <u>jtang613@ieee.org</u> – Jason Tang – Algonquin College Students Branch

By May 16 th	IEEE Members: \$5; Students \$2
	Non-IEEE Members \$10

After May 16^{th} Add \$5 to the above

Sandwiches, finger snacks and drinks will be provided to those registered.

Location:

Algonquin College 1385 Woodroffe Avenue T119 (Technology Building)

Parking – east of T building:

- Free Parking after 5PM in Lots 8, 9, and 12
- Pay parking Lot 15 & Visitor's Parking

Campus Map:

http://www.algonquincollege.com/main/yourAlgonquinTab/directions/woodroffeMap.htm

Public Transportation:

Baseline Station at Woodroffe & Baseline http://www.octranspo.com/Main_MenuE.asp