

GREAT LAKES SIIM-Q FORUM

**INDUSTRIAL & SYSTEMS, SIMULATION, & QUALITY
ENGINEERING COMING TOGETHER IN DETROIT.**

**OAKLAND
UNIVERSITY™**



**School of Engineering and
Computer Science**



**Michigan
Simulation
User
Group**



**Greater Detroit
Section**
The Global Voice of Quality™



Three Tracks:

- Industrial Engineering Topics
- Quality Topics: Core Tools, DVP&R, Best Practices
- Deming Library Videos

WHEN: Saturday, June 30th, 2018; 9 am to 3 pm

**WHERE: Oakland University
115 Library Drive
Rochester, MI 48309
Room 116 EC (Engineering Center)**

**Cost: FREE! 😊 Refreshments and Lunch Provided.
Networking Afterwards**

[Register for June 30th](#)

Questions contact wedwards@oakland.edu or louann.lathrop@fcagroup.com

PROGRAM

Check- In/Network	Room 116 EC	8:30-9
Opening Remarks	Room 116 EC	9 –9:15
Lunch	Room 116 EC	11:30-12:30

Industrial Engineering Topics Room 275 EC

- HANDS-ON Ergonomics Simulation
- LEAN
- Engineering Management

Quality Track Room 116 EC

9:15 – 11:15 Core Tools Overview: The Alphabet Soup of Core Tools APQP, FMEA, PPAP/CP, MSA & SPC Jd Marhevko ASQ Fellow, Shainin Medalist, MBB, CMQ/OE, CQE and ASQ Certified trainer. SVP of Quality, Lean and EHS Accuride Corporation

- What do all of those acronyms mean? How do they relate to ISO 9001 or IATF 16949? This session will review the basics on:
- **APQP: Advance Product Quality Planning:** Guidelines for a product quality plan to develop a product or service that satisfies the customer
- **FMEA: Failure Modes and Effect Analysis:** Methodology used to ensure potential problems have been considered and addressed throughout the product and process development process (Ex. APQP). This traditionally includes the Control Plan (CP)
- **PPAP: Production Part Approval Process:** Ensures product consistently meets customer engineering specification requirements during production run at the quoted production rate
- **MSA: Measurement Systems Analysis:** Guidelines for assessing the quality of a measurement system where readings are replicated
- **SPC: Statistical Process Control:** Basic graphing statistical tools that enable process control and capability for continual improvement

12:30-1:30 What is the FMEA Tool, why we need it, how it works, the link between Process and Design FMEA, and some basics of the PFMEA.

Carlo Forest BIW ME Global Lead for PFMEA/BIQ/GSIP – GM Manufacturing Engineering - Quality Chain

1:30- 2:30 Designing an Effective DVP&R Process for Ensuring Product Reliability

Jim Wrock and Harry Guo, PhD, CRE, CQE, CRP FCA US LLC

Deming Library Videos

Room 277 EC

The Deming Philosophy looks at the world through a lens that is different from all others

The Deming Philosophy, known as Dr. Deming's "theory of management" and later his "System of Profound Knowledge," represents a holistic approach to leadership and management.

The philosophy brings together an understanding of variation, theory of knowledge, psychology and an appreciation for a system.

The distinguished producer, reporter and author Clare Crawford-Mason in collaboration with Dr. Deming produced the videos. Hear and see Dr. Deming in these videos.

9:15 -3:00

How to Survive and Prosper in the Global Market: The New Economic Age and The 14 Points, Part 1 & 2
Corporate Leadership/ Adoption of the new philosophy
Example: Communication of the New Philosophy/Application of the New Philosophy
Red Beads Experiment & Life / Lessons of the Red Bead Experiment
The Funnel Experiment & Profound Knowledge; How Managers and Workers can Change
How a company transformed itself: Cooperation - The Key to Quality / The Dangers of Buying on Price Tag Alone
History and Theory Guiding Systems Thinking: America in the Global Market/ Understanding Profound Knowledge
Competition, Cooperation & the Individual; The Quality Leader
People Systems: The Toughest Challenge; Competition Doesn't Work: Cooperation Does Work
Profound Knowledge for Leadership ; Leadership for the Transformation