



**CROSSROADS OF AMERICA  
CHAPTER**

**Chapter Meeting**

6:00 PM, Tuesday June 11, 2019 [www.incose-coa.org](http://www.incose-coa.org)

**Program:**

**A Smart Manufacturing Reference Model**

In early 2017 the management boards of ISO and IEC created a Joint Working Group to pursue development of an International Standard for a Smart Manufacturing Reference Model. Over the preceding 5 years, several "smart manufacturing" reference model efforts had gained considerable support from national organizations and several international collaborations. However, none of these efforts was deemed suitable for the quickly emerging array of new techniques and technologies being applied in manufacturing facilities. To consolidate and focus work being done world-wide, ISO and IEC, as the major contributors to the development of standards in the domain of manufacturing enterprises, established a draft scope and term of reference to launch a Joint Working Group comprised of experts from ISO TC184 – Automation systems and integration, and IEC TC65 - Industrial-process measurement, control and automation. That group now numbers over 100 experts representing standardization bodies from over a dozen countries.

This presentation provides 1) a current status for that joint effort, designated as JWG21, 2) a bit of history about the way it arrived at producing a Technical Report - A meta-modelling analysis approach to Smart Manufacturing Reference Models (SMRMs) that identifies commonalities among the submitted smart manufacturing reference model candidates, and 3) expectations for a new International Standard for a Smart Manufacturing Reference Model.

Attendee Q&A and discussion time will be provided.

**Speaker: Richard Martin, President of Tinwisle Corporation, ESEP**



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### **Meeting Location / Host Site (see included directions and map to host site and parking)**

Eli Lilly & Company  
1200 West Morris Street –  
Building 301 Indianapolis, IN

### **Satellite Site**

No satellite site this month

### **Remote Access: If you cannot attend at the host location, join us remotely:**

Web access: <https://incose.pgimeet.com/GlobalmeetTwo> (join as a GUEST)

Audio: Toll Free: (719) 457-1414

Guest Passcode: 514 684 9877

### **Meeting RSVP**

To assure we have a (complementary) meal and seat reserved for you, please email your plan to attend to Chris Hoffman at [diesel\\_chris@me.com](mailto:diesel_chris@me.com). You do not need to be an INCOSE member to attend!

If you plan on attending at the Eli Lilly host site, please confirm your plans per the directions above so that your name can be entered into the Eli Lilly security system.

### **Event Schedule**

6:00 – 6:10	Arrival, Security Check In
6:10 – 6:30	Light Meal, Informal Networking
6:30 – 7:00	Business Meeting
7:00 – 8:00	Program
8:00 PM	Adjourn

### **Business Meeting:**

- Call to Order
- Approve/update minutes from previous Chapter meeting.
- Announcements
- Treasurer's Report
- Old Business
- New Business



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**Speaker Biographical Sketch:**

Since 1981, Richard Martin has been President of Tinwisle Corporation in Bloomington, Indiana, USA, where he has managed and provided services focused on enterprise integration to companies in the manufacturing, distribution, and services sectors. Other professional activities include:

- participation in an active research program to formalize the frameworks now in use for the management of model-based artifacts created in the course of enterprise operations – often referred to as Enterprise Architecture Frameworks;
- participation in the USTAG of ISO TC184/SC5 as Vice-chair and WG1 Convenor, currently the ISO 15704 revision editor and TC184 representative to ISO TC184 – IEC TC64 JWG21 Smart Manufacturing Reference Model team, and invited expert to IEC TC65 SyCSM AHG3;
- active participant in the INCOSE System Science WG, Architecture WG, INCOSE engagement with ISO/IEC JTC1/SC7/WG42, INCOSE Delegate to the Federation of Enterprise Architecture Professional Organizations where he serves on the Taxonomy WG and Board of Directors, and Deputy Assistant Director of the INCOSE Department of Standards Development;
- public service appointment to the Redevelopment Commission for Monroe County, Indiana, and Board of Directors member of the South Central Regional Sewer District.

Mr. Martin is a senior member of the Society of Manufacturing Engineers (SME), Life Member of the Institute of Electronic and Electrical Engineers (IEEE), and member of Association of Computing Machinery (ACM), and International Council on System Engineering (INCOSE).



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### Direction to Host Meeting Site: (Indianapolis)



**Directions:** Follow I-70 to the Harding Street exit. Follow Harding Street south and turn left (east) onto Morris Street. Follow Morris Street east to the Lilly Technology Center-North visitor entrance, shown here. Visitor parking is available in front of Building 301. Upon entering Building 301, proceed to the Security desk and check in. All visitors seeking access to any building at the Lilly

Technology Center must present government-issued identification (driver's license or passport) upon check-in. The security guard will issue a visitor badge and a Lilly host will escort you to the meeting room.

