Industrial Ontology Foundry (IOF)  
Creating semantic content for industry  
April 23-24, 2018  
National Institute of Standard and Technology, Gaithersburg, MD USA  

Agenda  

IOF Session Chairs: Dr. Dimitris Kiritsis, EPFL, Mr. Evan Wallace, NIST  

Day 1 – Monday, 23 March 2018  
Walker/Whetstone room  

Plenary Session  

9:00 – 9:15 Welcome  
9:15 - Keynotes and other session talks (see main agenda on website for details)  

12:30 – 2:00 IOF Working Lunch (grab lunch and meet in Goshen B)  
- Review charter. Does it need to be revised or extended?  
  - does the TOB need to make their own charter to cover their concerns?  
- Discuss potential new Domain Boards  
- Work on roadmap  
- Discuss dinner plans  

2:00 Presentations and other session talks (see main agenda on website for details)  

4:30 – 5:00 The Industrial Ontology Foundry state of play  
- Governance Board (Jim Wilson, OAGi)  
- Technical Oversight Board (Michael Gruninger, University of Toronto)  

5:00 – 5:30 Other session talk  
5:30 Adjourn  

6:00 - ?:00 IOF Social Dinner (not sponsored) – Location to be determined
Day 2 – Tuesday, 24 March 2018

**IOF Session break out**

8:30 – 9:10  **Keynote – Model-Based for Manufacturing in Airbus (Fernando Mas, Airbus Senior Expert - remote)**
- Presentation (30 min)
- Discussion (10 min)

9:10 – 9:20  **Overview of IOF Session**

**Case Studies**

9:20 – 9:50  **Standards for smart manufacturing: using ontologies to landscape standards into knowledge graphs (Irlan Grangel-González, Fraunhofer IAIS)**

9:50 – 10:05  **BREAK**

10:05 – 10:35  **Use Case: End of Life Processing (Richard Sharpe, Loughborough University)**

**Introductions**

10:35 – 10:45  **ST4SE - Semantic Technologies for Systems Engineering (Dr. Todd Schneider, Engineering Semantics)**

10:45 – 10:55  **Development of Ontology based decision support system for Manufacturing Process Planning (Dusan Sormaz [presenter], Professor, Arkopaul Sarkar, PhD Student; Department of Industrial and Systems Engineering Ohio University)**

10:55 – 11:10  **Towards a Unified Database for the Norwegian Manufacturing Research Laboratory (Oleksandr Semeniuta, Norwegian University of Science and Technology)**

**Experiences applying the IOF-like approach in industry 1**

11:10 – 11:40  **The Product Life Cycle Ontologies and the IOF: Cases, Lessons, Best Practices (J. Neil Otte, Department of Philosophy, University at Buffalo (SUNY))**

11:40 – 11:50  **BREAK**

**Early efforts of the IOF**

11:50 – 12:30  **Using BFO to categorize and define IOF proof-of-concept terms (Top-down approach) (Hyunmin Cheong, Research Scientist, Autodesk)**

12:30 -1:30  **LUNCH**

**Experiences applying the IOF-like approach in industry 2**

1:30 – 2:00  **Modular Ontologies for Engineering Design and Decision Making (Thomas Hagedorn, UMass Amherst)**

**Tools and experiences for managing, sharing, and using semantic content**

2:00 – 2:20  **Using Ontology for Model-driven User Experience (Sam Chance, Managing Director of Solution Engineering; Cambridge Semantics)**

2:20 – 3:00  **Tools and Infrastructure for continuous integration: FIBO case study (Dean Allemang, Working Ontologist, LLC; EDM council - remote)**
3:00 – 3:30  Mobi: A Shared Collaboration Environment for Semantic Content (Stephen Kahmann, Technical Lead, Special Programs; Inovex Corp.)
3:30 – 4:00  BREAK

Epilogue  Walker/Whetstone room

Plenary Session

4:00 – 5:30  Joint Panel
5:30  Workshop end

Description:

**Industrial Ontology Foundry**: Chairs – [Dr. Dimitris Kiritsis](mailto:), EPFL, [Mr. Evan Wallace](mailto:NIST (link sends e-mail)). The session focuses on the formation of an Industrial Ontologies Foundry (IOF), a new effort for converging existing semantic representations from the industrial and manufacturing domain. The primary purpose of the IOF is to develop a collaborative framework and platform for supporting the development, submitting, validating, and sharing ontologies for the industrial and manufacturing domains. In this way, the knowledge can be captured in a common semantic form and shared to facilitate smart manufacturing and other industrial practices and resources along the lifecycle of a manufactured product. This year’s session will review the structure of this new organization, what we’ve learned from an initial proof-of-concept effort, and the principles and processes that should be used to by the IOF to deliver value to the manufacturing industry.