Ontology Summit 2016:
Framing the Conversation:
Ontologies within Semantic
Interoperability Ecosystems

Healthcare Track: Session 1
March 10, 2016

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Healthcare Track: **Goal and Mission**

- **Healthcare and biomedical domains:** a very large ecosystem of vocabularies and ontologies
- *Goal:* To provide insight into the nature of semantic interoperability issues and approaches in the Healthcare ecosystem
- *Mission:* Present issues of semantic interoperability and integration in domain of healthcare: Example: Semantic Electronic Health Record (EHR) and Systems
  - Discuss approaches in semantic interoperability and integration in healthcare: precoordination, postcoordination, mapping, anchoring, foundational ontologies and architectures, hybrid approaches
  - Discuss approaches for achieving semantic interoperability of vocabularies and ontologies in healthcare
  - Discuss gaps in current approaches in semantic interoperability in healthcare
  - Discuss current/future challenges and prospects in semantic interoperability in healthcare
  - Propose best methods for achieving semantic interoperability in healthcare

Healthcare Track: **Today's Speakers**

- Kincho Law (Department of Civil and Environmental Engineering, Stanford University, USA):

    An Ontology-Based Approach for Facilitating Information Retrieval from Disparate Sources: Patent System as an Exemplar

- Olivier Bodenreider (US National Library of Medicine, USA):

    Ontologies Support Semantic Interoperability in Healthcare

- Eric Little (OSTHUS, Inc. USA):

    Integrating the Laboratory for Improved Analytics: How Semantics Is Driving an Evolution of 21st Century Labs

- Parsa Mirhaji (Clinical Research Informatics, Montefiore Medical Center, Albert Einstein College of Medicine, USA):

    The Semantic Data Lake in Healthcare