TUESDAY
DECEMBER
5 · 2017
8:30am - 4:30pm

AN INTRODUCTION TO
ONTOLOGY
FOR SYSTEMS ENGINEERS

LOCATION:
20 F St. NW, Washington, DC
20001

Ontologies and Semantic
Web Technologies are key enablers for
Model Based Engineering.
This boot camp has been organized
to provide the attendees with an
introduction to the concept of Ontologies
in this context.

Agenda for the Bootcamp:

1. Ontology background
   (1980s: AI, 2000s: Biology, 2000s: Semantic Web)

2. OWL, Common Logic

3. What ontologies are for?

4. Top-Level and Domain Ontologies

5. The Industry Ontologies Foundry

6. Defining 'System'

Boot camp Instructor is
Professor Barry Smith, *University of Buffalo.*

Smith is the creator of **Basic Formal Ontology**
(BFO), which is the most commonly adopted
upper-level ontology development framework, now
used in over 300 civilian and government ontology
initiatives throughout the world.

Most recently he has contributed to the AFRL
Digital Thread/Digital Twin initiative, whose goal is
to develop an ontology-driven analytical framework
to allow use and re-use of authoritative data from
multiple heterogeneous sources to inform decision-
makers throughout a system's lifecycle.

ATTENDANCE CRITERIA:

**Participation is limited to those from the government,
Federally Funded Research and Development Centers
(FFRDCs), SERC Collaborator Universities, and National
Laboratories. Participation will be capped at 35.
Workshop organizers will confirm admission to the
workshop by October 15th, so REGISTER NOW at:
http://www.sercuarc.org/events/serc-bootcamp-
intro-to-ontology-for-systems-engineers/**

SYSTEMS
ENGINEERING
RESEARCH CENTER

Dr. Dinesh Verma, *Executive Director, SERC (Stevens Institute of Technology)*
Dr. Barry Boehm, *Chief Scientist, SERC (University of Southern California)*

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