

Systems Engineering Research Center Presents:

**“A BOOTCAMP –
Introduction to Ontology for Systems Engineers”**

**Instructor: Dr. Barry Smith,
SUNY Distinguished Professor of Philosophy and
Julian Park Chair,
University of Buffalo**

Time	Topic	Lead
8:00 AM	Registration & Breakfast	All
8:30 AM	Applied Ontology Background: What ontologies are for 1980s: AI, Robotics 2000s: Biology 2000s: Semantic Web, Common Logic, AI again	Barry Smith
9:15 AM	Top-level and domain ontologies Building ontologies with Basic Formal Ontology BFO standards initiatives A BFO-based ontology of information artifacts A BFO-based ontology of environmental systems A BFO-based ontology for materials science	Barry Smith
10:15 AM	Coffee	
10:30 AM	Domain ontology suites Toronto Virtual Enterprise (TOVE) SWEET, and other domain ontology suites Open Biomedical Ontologies (OBO) Foundry Common Core Ontologies (CCO) Joint Doctrine Ontology AFRL Digital Thread/Digital Twin Industry Ontologies Foundry (IOF)	Barry Smith
12:30 PM	Lunch	All
1:15 PM	Some building blocks of a systems engineering ontology Activity Role Disposition Organization Engineered artifact Capability Function	Barry Smith
3:00 PM	Break	All
3:15 PM	Interactive session: Defining 'system'	Barry Smith
4:30 PM	Adjourn	All