

Engineering Neuroscience & Health

Department of Biomedical Engineering

Division of Biokinesiology and Physical Therapy



ENH SEMINAR SERIES



Presents:

Russell Marcus

Hamilton College

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Monday

March 19, 2012

4:00 p.m.

Pizza will be served: 3:30– 4 pm

“Critical Assessment of the Scientific Method: Experience, Intuition, and Justification”

Russell Marcus Ph.D.

Assistant Professor of Philosophy

Hamilton College

www.thatmarcusfamily.org/philosophy

Scientific theories systematically represent the results of our most respectable intellectual pursuits. Our beliefs in our best scientific theories derive from the evidence which supports those theories. Such evidence has long been thought to be mainly inductive and observational. In contrast, evidence for our best mathematical theories seems to be deductive and distant from observation. But, assessment of the ways in which both mathematics and science is actually practiced undermines the differences in the ways in which we justify scientific and mathematical theories. Further assessment of scientific and mathematical methodology and the role of intuition in constructing theories shows that science and mathematics have much in common with philosophy. We'll discuss a variety of historical and contemporary cases.

Locations: *Seminar is simultaneously presented*

UPC: HNB 100 — LIVE
Hedco Neurosciences Building

UPC Campus Map/Directions:
<http://www.usc.edu/about/visit/upc/>

HSC: CHP 147 – Video Conference
Center for the Health Professional

HSC Campus Map/Directions:
<http://www.usc.edu/about/visit/hsc/>

Organized by Professor Francisco Valero-Cuevas <http://bbdl.usc.edu/ENH>

Web Cast

<http://capture.usc.edu/college/Catalog/pages/catalog.aspx?catalogId=946350f1-ca84-40e7-b867-e16adba01e4e>

Information about all seminars can be found at

<http://bbdl.usc.edu/ENH>