

# “Fully Online Introductory Physics with a Bona Fide Lab”

Michael Schatz

Georgia Institute of Technology

Wednesday, Jan. 20th

ASB room 210

4:00pm reception\*

4:30pm lecture

This talk will describe a college-level introductory physics course that is suited for both on-campus and online environments. The course emphasizes a “Your World is Your Lab” approach whereby students examine and capture (with cellphone videos) motion in their surroundings, and apply physics principles to understand and to predict their observations. Each student reports findings via YouTube; these lab reports are distributed in the class for peer review. In this talk, we will highlight the evolution of the course from a MOOC to a fully online, for-credit course.



Michael F. Schatz is a professor and Associate Chair for Undergraduate Studies in the School of Physics at the Georgia Institute of Technology. In 1991, Schatz received his PhD in physics at the University of Texas, Austin; he joined the faculty of Georgia Tech in 1996. Schatz conducts research in both experimental nonlinear dynamics and physics education. He is currently Director of the Hands-on Research in Complex Systems Schools at the International Centre for Theoretical Physics (ICTP) in Trieste, Italy. He is a recipient of the Cottrell Scholars Award.

\*Please join us for live music and refreshments. Visit [csme.utah.edu](http://csme.utah.edu) for more information.

# “Stimulating Change in STEM Education: Engaging Faculty at the Department Level”

Susan Shadle

Boise State University

Wednesday, Jan. 27th

Marriott Library’s Gould Auditorium

4:00pm reception\*

4:30pm lecture

Evidence-based instructional practices are well-documented by education research to be effective in supporting student learning. However, their adoption is not widespread in higher education. As part of an NSF WIDER project, we are engaged in an institutional change project aimed at engaging all STEM (Science, Technology, Engineering and Math) faculty to explore and adopt evidence-based instructional practices. This presentation will describe our work in stimulating faculty exploration, with special attention to faculty in different stages of adoption of new teaching ideas.



Susan E. Shadle is Director of The Center for Teaching and Learning and Professor of Chemistry and Biochemistry at Boise State University. Her faculty development work focuses on effective course design, assessment of student learning, and the development of rich pedagogical toolboxes. She contributes professionally to both the national POGIL Project (Process Oriented Guided Inquiry Learning) and the POD Network (Professional and Organizational Development Network in Higher Education). Her scholarly interests are focused on factors that impact faculty and institutional change.