Distinguished Lectures
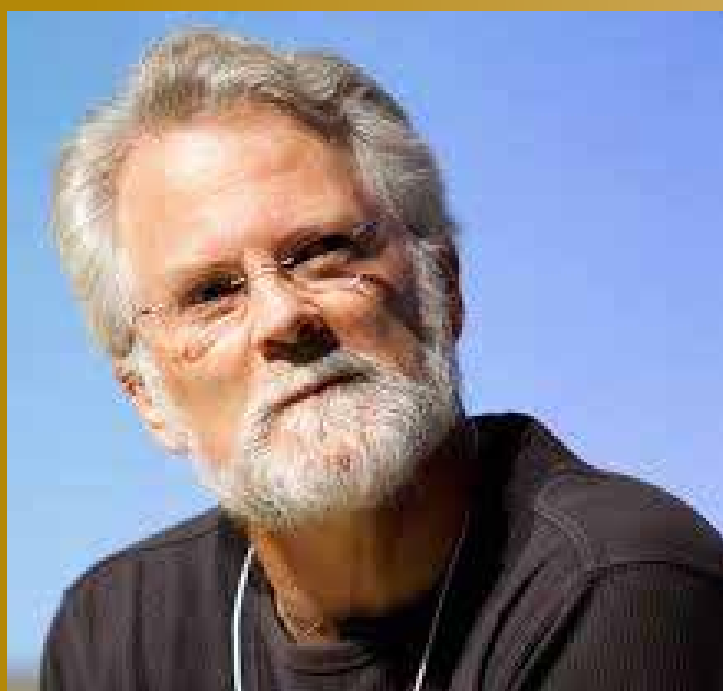## Fall 2015

Colorado State University's Information Science and Technology Center(ISTeC) *presents two lectures by*

Dr. Phil Long

Associate Vice Provost
Learning Sciences
University of Texas at Austin

ISTeC Distinguished Lecture

In conjunction with the School of Education, Electrical and Computer Engineering Department and Computer Science Department Seminar Series

"Learning Sciences and Their Lack of Impact on Learning Technologies and Learning Practices"

Monday, August 31, 2015
Reception with refreshments: 10:30 am
Lecture: 11:00 am - 12:00 noon
Morgan Library Event Hall

School of Education, Electrical and Computer Engineering Department, and Computer Science Department Special Seminar *Sponsored by ISTeC*

"Building a Framework for Learning Analytics - The Current Developments in IMSGlobal Caliper and RAM Caliper Instrumentation of Learning Environments"

Monday, August 31, 2015
Lecture: 2:00 pm - 3:00pm
Lory Student Center, Room 308-310

Abstracts

Learning Sciences & their Lack of Impact on Learning Technologies on Learning Practices.

Technologies extend our senses and augment our bodies. They enable us individually as well as situate us socially. Our opportunity to engage in learning individually, in groups, or in massive collectives is transforming the landscape of higher education. Simultaneously we are discovering more and more about how we learn. Data from neuroscience, cognition and memory research is telling us about how we engage with each other, filter and encode the deluge of data washing past us, and act on our world. Yet some of the core principles of effective learning are not universally embraced either in learning technologies or teaching practices. Why? Technology disrupts the status quo in mean areas of human endeavor, yet the perception of the many is that hasn't changed the academy in appreciable measure over the past 100 years. This talk will address some very basic but significant aspects of what we know affects learning and discusses why it has had marginal impact on educational technology development and classroom practices.

Building a Framework for Learning Analytics - the current developments in IMSGlobal Caliper and RAM Caliper instrumentation of learning environments.

The penetration of digital environments to support learning, whether in hybrid formats at residential campuses or true distributed online programs, has opened up the possibility of capturing data hitherto inaccessible data about the process of learning. It may or may not tell us much about what is affecting, influencing or shaping learning and sense making in any particular class or interaction. In an attempt to at least make the process of building educational technologies that can be more than one-of custom code exemplars, IMSGlobal has formed the Caliper and Real-time Messaging Caliper workgroups to make these efforts result in inter-operable applications. Of course, as the phrase goes, the wonderful thing about standards is that there are so many of them. This talk will outline the current work on Caliper and its real-time cousin RAM Caliper, the strengths and weaknesses it currently has, and where it might be headed.

Speaker Biography:

Phil is the Associate Vice Provost for Learning Sciences and Deputy Director of the Center for Teaching and Learning at the University of Texas, Austin. Current work focuses on UTx, the local implementation of edX, learning analytics (SoLAR) and the digital enhancement of physical learning spaces.

He is also a Foundation Honorary Professor at the Institute for Teaching and Learning Innovation at the University of Queensland, Brisbane, Australia.

He is a lapsed biologist now learning scientist focused on emerging technologies, the cognitive interactions with them, & the spaces, physical and virtual wherein they occur.

To arrange a meeting with the speaker, please contact Prof. James Folkestad (james.folkestad@colostate.edu).

Upcoming Distinguished Lectures

September 14

"Polyhedral Crystalline Membranes"
11:00 am -12:00 noon

Morgan Library Event Hall
Monica Olvera de la Cruz

October 19

"From GPS and Google Maps to Spatial Computing"
11:00 am -12:00 noon

Morgan Library Event Hall
Shashi Shekhar