**Friday Afternoon Geosciences Colloquium**

**Spring Semester, 2017**

*All presentations will be from 3:00-4:00 PM in the Baylor Science Building Room E-321.*

*A reception with refreshments precedes the presentation at 2:30 PM in the BSB E-wing clock tower room.*

 **Date Speaker Topic**

 January 13 Dr. Charity Lander Was there life on Mars? Assessing habitability

 *University of Oklahoma* and biosignatures on the red planet

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 January 20 Dr. Jamey Fulton Tracing microbial biogeochemistry at the top

 *Baylor University* of the critical zone in arid and semi-arid drylands

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 January 27 Professor Kate Freeman How stable is stabilized carbon in soils

 *Penn State University* when the world heats up?

 *O.T. Hayward Speaker* An organic geochemist's perspective

 on lessons from past climates

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 February 3 Professor Frederick Chester Fault structure and flash-weakening

 *Center for Tectonophysics* during earthquake slip

 *Texas A&M University*

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 February 10 Professor Joseph White Strange planet: Non-analogous plant-atmosphere

 *Baylor University* interactions of the late Carboniferous

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 February 17 Professor Beth Parker Plume behavior in sedimentary rock aquifers:

 *University of Guelph* Using chlorinated solvent contaminants as long-term

 *NSERC Industrial Research* natural-gradient tracers to understand

 *Chair, Hydrogeology* complex flow systems

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 February 24 Dr. Omar Harvey Measurements of energy and energetics:

 *TCU School of Geology,* What can they tell us about biogeochemical reactions

 *Energy & Environment* in Earth’s critical zone?

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 March 3 Professor Charles DeMets High-resolution reconstructions of the Pacific-

 *University of Wisconsin–* North American plate motion and implications for the

 *Madison* Neogene tectonics of western North America

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 March 17 Dr. Edith Wilson Transformation: From fossil fuels

 *Research Assoc., University of Tulsa* to the future

 *rockwhispererllc.com*

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 March 24 Dr. Linda Gunderson Changes and challenges in scientific integrity

 *Scientist Emeritus, USGS* and ethics – An interactive dialogue

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 March 31 Dr. James O’Connor, USGS The Great Missoula floods of the

 *Sigma Xi Distinguished Lecturer* last Ice Age

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 April 7 Professor Allen Glazner A 21st century view of plutons

 *University of North Carolina*

––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––––

 April 21 Professor John Geissman Magnetostratigraphy of Upper Permian to Lower Triassic

 *University of Texas–Dallas* (?) Beaufort Group strata, Karoo Basin, South Africa:

 Editor-in Chief, *Tectonics* Can we “see through” the Karoo Large Igneous Province?

Links to brief descriptions of the presentations and more information about the speakers are available online via <http://croninprojects.org/Vince/ColloquiumSpring2017.html>