



Cooperative Institute for
Dynamic Earth Research

CIDER 2018 Pre-AGU Workshop

Sunday, December 9, 2018

Location: Carnegie Institute of Washington - DTM, Broad Branch Road

PROGRAM

Chair: TBD

- 1:00 - 1:05 pm: **Bruce Buffett/Daniel Frost** (University of California, Berkeley)
Introduction and Logistics
- 1:05 - 1:35 pm: **Keynote: Rich Walker** (University of Maryland) - "Short-lived Radiogenic Isotope Systems Make Life Horrible/Wonderful for Geodynamicists"
- 1:35 - 2:05 pm: **Keynote: Diana Roman** (Carnegie Institute of Washington - DTM) - "An Emerging View of the Volcanic Eruption Cycle"
- 2:05 - 2:30 pm: Coffee break
- Chair: TBD
- 2:30 - 5:00 pm: **Presentations from the 2018 summer program**
- 2:30 - 2:45 pm: **Kiran Chotalia, James Muller, Joe Schools, Erik C Weidner, Jenna Adams, Magali I Billen, Louis N Moresi, Meghan S Miller, Lauren Waszek, Thorsten W Becker, Carolina R Lithgow-Bertelloni, Lars P Stixrude, and Dominique Weis:**
"Can a subducted sedimentary layer survive into the deep mantle? Maybe, if it is strong or thin"
- 2:45 - 3:00 pm: **Elizabeth Colette Thompson, Eva Bredow, Neala Creasy, Karen E Godfrey, James Muller, Man Xu, Chengzu Wang, Maxim Ballmer, Shichun Huang, Gabriele Morra, and Sujoy Mukhopadhyay:**
"Thermochemical Evolution of Mantle Plumes Observed Spatially (TEMPOS)"
- 3:00 - 3:15 pm: **Sarah Arveson, Alexander Burky, Kristel Izquierdo, Guanning Pang, Jia Shi, Rashni Anandawansa, Nicholas Mancinelli, Miki Nakajima, Jessica Irving, Chrystele Sanloup, and Shichun Huang:**
"Assessing the Structure of the Lunar Deep Interior: a Seismological and Selenophysical Perspective"
- 3:15 - 3:30 pm: **Robert Citron, Ma. Teresa Escobar, Antoniette Greta Grima, Xiaobao Lin, Diogo J L Lourenço, Fred Wilson, Scott A Wipperfurth, Jun Yan, Sanne Cottaar, Laurent Montesi, Sujoy Mukhopadhyay, Rita Parai, and Maxwell L Rudolph:**
"Stable Heat-producing Element Enriched Provinces (SHEEP) in the lower mantle"
- 3:30 - 3:45 pm: **Mingda Lv, Margaret S Avery, Xiaoran Chen, Bethany Chidester, Jie Deng, Benjamin J Farcy, Daniel A Frost, Zhi Li, Joshua F Martin, Bruce A Buffett, Susannah Dorfman, and Lijun Liu:**
"Heat from Below"
- 3:45 - 4:00 pm: **Peter Nelson, Wanying Wang, Li-Wei Chen, Jack van Driel, David Willis, Neala Creasy, Lowell M Miyagi, and Thorsten W Becker:**
"Constraining Lower Mantle Plume Anisotropy: A Multidisciplinary Approach"

Keynote talks: 25 minutes with 5 minutes questions

Group talks: 12 minutes with 3 minutes questions