



CCFS Short course on

Snowball Earth

by

Professor Paul Hoffman

Friday 15 July, 2016, 9:30 am - 3:30 pm

Venue: Curtin University Bankwest Lecture Theater, Building 200A room 220
(next door to John Curtin Gallery)

Registration: Free registration, and all are welcome. Tea/coffee/light lunch will be provided.

RSVP: For catering purpose, please RSVP your attendance ASAP with weihua.yao@curtin.edu.au

The global climatic phenomenon known as Snowball Earth is arguably the most exciting and challenging discovery in geology in the last 35 years. It is inherently multidisciplinary: its recognition came from geology, its origin and predictive nature from climate dynamics, its verification from geochemistry and geochronology, and its legacy is geobiological. The proposed short course will synthesize the latest and most significant results from all four disciplines and highlight outstanding problems. The presenter is a leading spokesman and authority on Snowball Earth, with over 20 years of first-hand experience on six continents.

Lecture 1. Snowball geology: chronology, paleogeography, sedimentology, and paleoenvironmental context of Cryogenian glaciations

Lecture 2. Snowball climate dynamics: the atmosphere, cryosphere, ocean and lithosphere during Snowball Earth

Lecture 3. Snowball geochemistry: Snowball ocean acidification, deacidification, cap carbonates, elemental and isotopic proxy records, and redox

Lecture 4. Snowball geobiology: Neoproterozoic paleontology, organic geochemistry and molecular phylogeny; habitats on Snowball Earth for the evolution of eukaryotes

Lecture 5 (optional). Siderian glaciation and the Great Oxidation Event: Paleoproterozoic glaciation in North America and southern Africa, and evidence for a Siderian Snowball Earth

Information about Professor Hoffman can be found at:

<http://www.snowballearth.org/people.html>
http://en.wikipedia.org/wiki/Paul_F._Hoffman

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