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 lith
osphere 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 geochemis-
try and molecular phylogeny; habitats on Snowball Earth for the evolution of
eukaryotes

Lecture 5 (optional). Siderian glaciation and the Great Oxidation Event: Paleopro-
terozoic 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
https://en.wikipedia.org/wiki/Paul_F._Hoffman

Hosted by:
Curtin University