

# Sequence Stratigraphy, Detrital Zircon Geochronology, and Shale Geochemistry of Middle to Late Ordovician Quartzites in North America to Understand Provenance, Sediment Dispersal and Paleoclimate

Dr. Mike Pope

Detrital Zircon Geochronology indicates:

Provenance was a line source off Transcontinental Arch from Trans-Hudson Orogen (1.8-2.0 Ga) and Wyoming Craton (2.5-3.0 Ga)

Little to no recycling of underlying sedimentary rocks

Longshore Transport was the main method to re-distribute sediment along the shoreline

Next:

Completing sequence stratigraphic and paleoclimate interpretations, and expanding our research into coeval units in US Midcontinent

