

Table of Contents

KEYNOTE LECTURE: Reconstructing the Devonian Carbon Cycle Using the Northern Appalachian Basin Strata of New York State - James Zambito 1

TRIP 1: Symbiotic Relationships Among Benthic Invertebrates from the Ludlowville and Moscow Formations (Hamilton Group) in New York State: A Closer look at Faunal Interactions - Stephen Mayer and Carlton E. Brett 2

 Road log and Stop Descriptions 13

TRIP 2: Hydrologically Active Karst and Disappearing Lake Phenomenon in the Onondaga Escarpment, Western New York - Paul Richards 16

 Site Descriptions 19

KEYNOTE LECTURE

Reconstructing the Devonian Carbon Cycle Using the Northern Appalachian Basin Strata of New York State

James Zambito

Beloit College, Beloit, WI

Devonian climate trends have long been studied within the context of biological change. This presentation outlines efforts using stable carbon isotopes to reconstruct this climate volatility as recorded in the Northern Appalachian Basin strata of New York State.

About the Speaker:

Jay Zambito grew up outside of Rochester, NY and completed a BS in Earth Science at SUNY Brockport. He continued his education with a MS from the University at Buffalo (SUNY) and then a PhD from the University of Cincinnati that focused on Paleoecology in the Devonian of New York. Following his graduate studies, he held a Post-Doc position at the University of West Virginia where he studied Permian paleoclimate proxies and then spent 5 years as a Research Professor at the Wisconsin Geological Survey where he focused on the potential environmental impacts of frac sand mining. Since 2018 he has been an Associate Professor of Geology at Beloit College where he works with students to study the history of Earth and Life by integrating paleoclimatological, paleobiological, and paleoenvironmental data.

