

1603rd Draft GSW meeting minutes 9 Oct 2024

This GSW meeting was held in the Powell auditorium at the Cosmos Club.

President Dan Doctor called the meeting to order at 8:09 PM with ~57 attendees present.

Thirteen guests were announced, including scientists and students from the USGS, Smithsonian, National Academy of Science, Carnegie-Mellon, Auburn Univ, ESRI, and Arizona State. There were no obituaries.

Announcements included the location and date of our GSW fall field trip, to be held in Rock Creek Park on Sunday, 17 Nov, led by Callan Bentley. More details will follow.

Formal talk: **Dr. Isabel P. Montañez** (Univ. California-Davis, Dept of Earth and Planetary Sciences & Institute of the Environment) presented the hour-long Bradley Lecture: entitled: “**Paleo-CO₂ Revisited — New insight into the Earth System of the Deep Past**”. Dr Montañez is a National Academy of Sciences member and an alum of Bryn Mawr. Present-day levels are 423 ppm. She emphasized that present-day and projected **CO₂** have analogs only in the deep past, and discussed how well we know paleo **CO₂**. Specifically, the PIP (Proxy Integration Project) consortium is designed to advance paleo-CO₂ reconstruction over the Phanerozoic (~450 Ma) and she discussed the work of this consortium. Questions from the floor by B. Hansen (retired), V. Zabielski (NVCC), T. Wolfeheskey, an unknown Smithsonian early career scientist, Ved Lekić (UMD), S. Chaffey, A. Whithouse (Bristol, UK), J. Repetski (USGS) and D. Doctor (USGS).

Meeting adjourned at 9:35 PM. Submitted by M. Purucker (NASA), GSW meeting secretary.