

1602nd Draft GSW meeting minutes 4 Sep 2024

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

President Dan Doctor called the meeting to order at 8:03 PM with ~40 attendees present.

Nine guests were announced, including early career scientists from the Smithsonian, Geological Society of America, the Univ. of MD and NASA.

One obituary was read, that of Daniel Milton (1934-2024). Dr. Milton, active in the GSW for many years, died on 26 May 2024 at the age of 89. A GSA and MSA fellow educated at Harvard and Caltech, Dr. Milton worked at the USGS (Flagstaff, Menlo Park) in a career that spanned more than 30 years. His geological expertise included Uranium on the Colorado Plateau, and Lunar and Martian geology, especially impact craters. Of note, he prepared the Apollo 11 lunar astronauts for the geology of their landing site.

Formal talk 1: Jane Hammarstrom (US Geological Survey) entitled 'Critical minerals in the U.S.: Past, present and potential'. Hammarstrom, a USGS geologist, GSW president in 2000, received her M.S. in Geology from Virginia Tech. Hammarstrom focused on minerals critical for the energy transition, in particular those that yield Cobalt and Manganese for batteries. She discussed resources, deposits and mines in Alaska, Idaho, N. Michigan, N. California, Puerto Rico, and the seabed. 20 minutes. Questions from the floor were taken from J. Allan (NSF retired), E. Cottrell (SI), M. Malinconico (Lafayette College), L. Rowan (CRS), and V. Zabielski (NVCC).

Formal talk 2: Tommaso Mandolini (UMD) entitled '3D microstructure, porosity, and permeability in an out of the fault in deformed sandstones'. Dr. Mandolini an early career scientist at the UMD Laboratory of Rock Physics, posited that slow faulting under high fluid pressure enhances permeability and porosity structure. 20 minutes. Questions from A. Jubb (USGS), J. Hammarstrom (USGS), R. Stokes (USGS), J. Allan (retired), Sara (?), Allison (CRS), and D. Doctor (USGS).

Formal talk 3: Joshua Martin (Geological Society of America Policy Fellow) entitled 'Geoscience's Role in Shaping Policy Decisions'. After receiving his Ph.D. in Geosciences from Ohio State, Dr. Martin is now in his 2nd year as the GSA Policy Fellow. Dr. Martin's presentation focused on working with the US congress on several policy questions, especially critical minerals, visa, and Immigrants. 20 minutes. Questions from E. Cottrell (SI), A. Jubb (USGS), and D. Doctor (USGS).

Meeting adjourned at 9:40 PM. Submitted by M. Purucker (NASA), GSW meeting secretary.