President Liz Cottrell called to order GSW’s first hybrid meeting at 20:03 EST.

Attendance
There were 101 attendees, 33 in-person and 68 on Zoom.

Minutes
The meeting began with the approval of the minutes from the previous meeting (1571st). The minutes of the 1570th meeting had been posted online and a Minute’s Minute was read aloud at the 1571st meeting. No corrections were noted, and the minutes were accepted.

New Members and Guests
Sixteen new members were announced: Will Odom (USGS), Riley Bates (petroleum geology, retired), Juliana Troch (Smithsonian NMNH), Nico Kueter (Carnegie EPL), Phil Piccoli (UMD), Sourabh Shubham (UMD), Kris McCandless (VA Dept Env Quality), Alan Pitts (USGS), John Counts (USGS), Campbell Bates, Karin Lehnigk (UMASS, Amherst), Steven Benford (retired), Laurel Bauer (USNRC), Jonathan Arthur (AGI), Palma Botterell (USGS) and Josie Hammon (US Senate).

Fourteen guests were introduced:
One in-person guest: Liam Peterson (UMD); Thirteen plus virtual guests: Robert C. Smith, II (PA Geological Survey, retired), Aley El-Shazly (MarshallU), William Vincett (UDelaware), Abigail Nalesnik (UDelaware), Kelly Brigham (UMASS), John Brady (Smith College), Peter Lipman (USGS Emeritus), Clinton Tippett (Shell Regional Geologist retired), Victoria Avery (USGS), Christina Cauley (UOregon), Alex Bearden (KansasSU), petrologists of an undetermined number (WWASH U) and Blake Wallrich (VanderbiltU).

Announcements
1. Dan Doctor announced a November 20th USGS-sponsored field trip that will focus on the tectonic and landscape evolution history at the boundaries of the Blue Ridge Anticlinorium. Details are posted on the GSW website.

Informal Communication
There was no informal communication.

Obituaries
No obituaries were announced.

Formal Program
The formal program commenced at 20:16 EST with the Bradley Lecture delivered by Terry Plank (Lamont-Doherty Earth Observatory, Columbia University).

Terry Plank presented “At the Speed of Volcanic Eruptions.” Plank explained new constraints on volcanic run-up, forecasting and eruption dynamics and addressed the following questions: What happens under volcanoes in the months leading up to eruption? How does the magmatic system prepare for an eruption? And why are some eruptions more explosive than others? Plank said that crystal clocks reveal some answers. Chemical zonation
preserved inside crystals and their inclusions provide some of the fastest clocks in geology. These timescales of chemical diffusion operate over minutes to years prior to eruption. *Talk Length: 53’22”*

Questions were asked by: Jamie Allen (NSF), Brooks Hanson (AGU), Roz Helz (USGS), Larry Meinert (Economic Geology & CSM), Steve Mackwell (Rice U), Yan Zhan (Carnegie Institution for Science), Carl-Henry Geschwind (Independent Researcher, retired), Bill Burton (USGS Emeritus), Megan Holycross (Cornell U), Yasmina Martos (NASA Goddard Space Flight Center), Beth Doyle (NVCC/Marymount U), Liz Cottrell (NMNH), Brent Grocholski (Science) and Abigail Nalesnik (U Delaware).

President Cottrell adjourned the 1570th meeting at 22:14 EST.

Respectfully submitted,

Beth Doyle