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File 102
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AGENDA FOR THE NRC/USGS GEOLOGY WORKSHOP
October 4-7, 1983

OCTOBER 4

- 8:30-9:00 Opening Remarks & Introductions
- 9:00-10:00 Regional geologic and tectonic setting - broad overview of geology and tectonics and implications or impact to Yucca Mountain - W. J. Carr
- 10:00-10:15 Break
- 10:15-10:45 Configuration of regional aquifer system - pre-Tertiary rocks - M. Carr
- 10:45-11:30 Regional gravity and magnetics - subsurface framework - H. Oliver
- 11:30-1:00 Lunch
- 1:00-2:00 Seismology - regional and site seismic activity and hazards, relationship of seismic activity to active faults, and tele-seismic p-wave delay - A. M. Rogers
- 2:00-2:30 Geomorphology - Quaternary stratigraphy active processes, climate, mapping - D. L. Hoover
- 2:30-2:45 Break
- 2:45-3:45 Neotectonics - Quaternary fault investigations - W. C. Swadley
- 3:45-4:30 Open discussion

OCTOBER 5

- 8:30-10:00 Volcanism - rates, potential, and risk - B. M. Crowe
- 10:00-10:15 Break
- 10:15-11:30 Geologic setting of Yucca Mountain - distribution and continuity of volcanic rocks in the YM block - R. W. Spengler
- 11:30-1:00 Lunch
- 1:00-1:45 Borehole geophysics - Bulk physical properties and distribution of units
- 1:45-2:15 Paleomagnetic studies - magnetic properties of rocks to determine stratigraphic continuity - J. B. Rosenbaum
- 2:15-2:30 Break
- 2:30-3:30 Heat flow - Yucca Mountain and regional thermal gradients and anomalies - J. Sass
- 3:30-4:30 Open discussion

OCTOBER 6

- 8:30-10:00 Structural geology - surface and subsurface distribution of faults and fractures at Yucca Mountain - R. B. Scott
- 10:00-10:15 Break
- 10:15-11:00 Seismic reflection/refraction - status of seismic studies of Yucca Mountain area - Ackerman/Pankratz
- 11:00-11:30 Aeromagnetism - status of survey at Yucca Mountain - G. D. Bath
- 11:30-1:00 Lunch
- 1:00-2:00 In situ stress - Analysis of borehole hydrofrac measurements - J. Healy
- 2:00-2:30 Crustal deformation - newly established level lines and strain network - W. Carr
- 2:30-3:15 Break and caucus
- 3:15-4:00 Closing session

FIELD TRIP TO NTS - NRC/USGS GEOLOGY WORKSHOP
October 7

6:30-7:00 Badging and assemble at NVO
7:00-8:30 To NTS via bus (NV responsibility)
8:45-10:00 Travel to Yucca Mountain Crest via vans (NV responsibility)
10:00-10:30 Regional overview - W. J. Carr
10:30-10:45 Volcanism overview - B.M. Crowe
10:45-11:00 Site geology - R. W. Spengler
11:00-11:15 Structural geology - R. B. Scott
11:15-12:15 Lunch and Travel to ES Site
12:15-12:45 Local geology and structure - R. W. Spengler and R. B. Scott
12:45-1:00 Travel to trench #2
1:00-1:15 Trench #2 - W. J. Carr/W. C. Swadley
1:15-1:30 Travel to Trench #14 (near mouth of Drill Hole Wash)
1:30-2:00 Trench #14 - W. J. Carr/W. C. Swadley
2:00-2:45 Travel to Core Library
2:45-3:00 Break
3:00-5:00 Review core
5:00 Return to Las Vegas via bus (NV responsibility).

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