

## SUBSIDENCE INTEREST GROUP CONFERENCE AGENDA

Edwards Air Force Base, California

November 18–19, 1992

Wednesday - November 18th

8:00 AM	Opening remarks and introductions	Keith Prince, Menlo Park, CA
8:10	Welcome	Larry Plews, Edwards AFB, CA
8:20	Incidents and causes of land subsidence in the karst terrain of Florida	Craig Hutchinson, Tampa, FL
8:45	Subsidence caused by geothermal development near Mammoth Lakes, California	Christopher Farrar, Santa Rosa, CA
9:10	Land subsidence at Luke Air Force Base, Arizona	Herbert Schumann, Tempe, AZ
9:45	Break	
10:15	Land subsidence in El Paso	Charles Heywood, Albuquerque, NM
10:45	Preliminary look at land subsidence in the Ventura/Oxnard areas, California	Randall Hanson, San Diego, CA
11:00	Land subsidence associated with the San Jacino Fault, California	Douglas Morton, Riverside, CA
11:15	Static GPS surveys in land subsidence investigations in California	Marti Ikehara, Sacramento, CA
11:45	Lunch	NASA Cafeteria
1:00 PM	Kinematic GPS surveys in southern Arizona	Donald Pool, Tucson, AZ
1:30	Analysis of strain induced water-level fluctuations for estimates of aquifer elastic storage and hydraulic diffusivity	Devin Galloway, Sacramento, CA
2:00	Horizontal strain and tilt associated with water-level fluctuations—measurement techniques and results	Michael Carpenter, Tucson, AZ
2:45	Break	
3:15	Hydraulic forces associated with the generation of earth fissures at depth	Donald Helm, Las Vegas, NV
4:00	Simulation of three-dimensional granular movement	Thomas Burbey, Carson City, NV
4:45	Adjourn	

U.S. Geological Survey Open-File Report 94-532

Thursday - November 19th

8:00 AM	Overview of methods of simulating land subsidence with "MODFLOW"	Stanley Leake, Tucson, AZ
8:45	Simulation of transient ground-water flow and land subsidence in Picacho Basin, Arizona	Donald Pool, Tucson, AZ
9:15	Break	
9:45	Antelope Valley projects	
	Introductions—	Devin Galloway, Sacramento, CA
	- Antelope Valley regional geology	Gary Dixon, Las Vegas, NV Wesley Ward, Flagstaff, AZ
	Land subsidence and related factors—	
	- Hydrogeology of Antelope Valley	Clark Londquist, Sacramento, CA
	- Measurement of land subsidence: The Edwards AFB and Antelope Valley networks	Marti Ikehara, Sacramento, CA
	- Measurements of land deformation: The shape of the subsidence surface and its relation to earth fissures, and erosional features	James Blodgett, Sacramento, CA
	Managing in the future—	
	- Antelope Valley: Land subsidence as a resource management objective	Steven Phillips, Sacramento, CA
	- Edwards Air Force Base: Land subsidence and the base comprehensive plan	Larry Plews, Edwards AFB, CA,
	Discussion—	
11:45	Lunch	NASA Cafeteria
Field Trip—	Edwards Air Force Base	Francis Riley      Gary Dixon
	1:30–5:30 PM	Menlo Park, CA    Las Vegas, NV
		Antelope Valley Studies Group Sacramento, CA
1:30 PM	Convene tour: Hospital Ridge, Generals Quarters Overlook. Geologic and hydrologic boundary features, Mt. Mesa, San Gabriels, Tehachapis, the east Antelope structural basin, Antelope Valley Fault Zone and associated spring line, Graham Ranch Basin, South Track and South Base well fields, overview of subsidence affected areas.	
2:15	Holly site—one deep (840 ft) extensometer and four piezometers: counterweighted pipe extensometer with reference table, review compaction and water-level record.	

U.S. Geological Survey Open-File Report 94-532

- 3:30 Fissure site—two shallow (<55 ft) extensometers and five piezometers: pipe extensometers with reference table, review compaction and water-level record; earth fissure; fissure monument array; water-level monitoring installation.
- 4:45 Runway 17 (designated Space Shuttle runway) fissure zone: relation to inflection on land-surface elevation profile, and geologic structure—Antelope Valley Fault Zone at the El Mirage Fault.
- 5:30 Dinner Officers' Club
- 7:30 USGS Subsidence Interest Group meeting Officers' Club
- Subsidence in People's Republic of China and interest in international cooperation Stanley Leake, Tucson, AZ  
Donald Helm, Las Vegas, NV
- Recent effort by Western Region, Water Resources Division, USGS to brief USGS senior management on subsidence issues Stanley Leake, Tucson, AZ  
Donald Helm, Las Vegas, NV
- Subsidence Interest Group position paper—Where do we go from here? Open Discussion
- Subsidence Interest Group leadership—What is an appropriate form? Open Discussion
- 10:00 Adjourn