

Hidden Faults Under Silicon Valley

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Do new discoveries change our view of Santa Clara Valley earthquake hazards?



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**USGS, Conference Room A, Bldg 3,
Menlo Park, California**

- Seismic profiles have revealed the valley's deep structure and previously unknown faults
- Earthquakes and seismic reflection images suggest some reverse faults beneath the valley that are not seen at the surface
- The disastrous 1994 Northridge earthquake occurred on a hidden fault like those now known to underlie Silicon Valley
- Deep sedimentary basins on both sides of the valley can greatly amplify earthquake shaking



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Map for lecture site on reverse

