LEARNING FROM EARTHQUAKES: NAPA TO NEPAL (AND TAIWAN)
Session Topics

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Session Topics

South Napa Earthquake (8.24.2014)

Nepal Earthquake (4.25.2015)

Taiwan Earthquake (2.06.2016)

Response

Recovery

Reconstruction
South Napa Earthquake

Max Intensity: 7
Max PGA: 0.6g
Magnitude (M_L): 6.0
Depth: 10 km
South Napa Earthquake

Damage:

- 14km of surface rupture
- Unreinforced Masonry Buildings
- Parapets
- Wine barrels
- Cylindrical steel tanks
- Masonry Chimneys
- Cripple walls
- Nonstructural building damage

Figure courtesy of Maryann Phipps
Nepal/Ghorka Earthquake

Max Intensity:  8.84
Max PGA:      1.04g
Magnitude (M_L):  7.6
Depth:        15 km
Deaths:       ~8,800
Affected Pop.: 8 million

Aftershocks:
M6.6 (4/26)
M6.7 (4/26)
M7.3 (5/12)

Figure courtesy of EERI Learning from Earthquakes
Nepal/Ghorka Earthquake

Damage:
- Landslides
- Historical structures and monuments
- Public facilities (hospitals, government buildings, schools)
- Road blockage
Taiwan Earthquake

Magnitude ($M_L$): 6.6
Depth: 14.6 km
Deaths: 117
Injuries: 551
Displaced: >900 families

Figure courtesy of Degenkolb
Taiwan Earthquake

Building damage:

11 Complete Collapsed*
247 Red Tag
335 Yellow Tag

*Mainly non-ductile concrete buildings

Financial damage:

> $12 million USD

source: Central Emergency Operation Center; NCDR; Construction and Planning Agency, Ministry of the Interior, Taiwan
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Photo courtesy of Degenkolb Engineers

Photo courtesy of Erica Fischer

Photo courtesy of EERI Learning from Earthquakes
PANEL DISCUSSION
QUESTION #1:
Can you talk about the response phase after the earthquake in which you were involved?
QUESTION #2:
Can you talk about the recovery process in the country/region that was affected by the earthquake?
QUESTION #3:
Can you talk about the reconstruction process (if applicable)?
QUESTION #4:
Any **key takeaways** from your experience in regions after a major earthquake that you would like to share with the audience?