

Update on the Geologic Maps Foundation's (GMF) efforts from 2016 - 2018 (as of 07 January 2018, most recent listed first)

Fault Displacement Hazards at Natural Gas Storage Fields:

1) 2018:

Presentations given to three professional geologic societies, title: Fault displacement hazards at Aliso Canyon and Honor Rancho natural gas storage fields, southern California:

- 6/28/2018, Los Angeles Basin Geologic Society Meeting
- 6/13/2018, American Association for the Advancement of Science, Pacific Section Meeting, CalPoly Pomona
- 5/23/2018, Fault Displacement Hazards at Aliso Canyon and Honor Rancho Natural Gas Storage Fields, Southern California, USA, American Association of Petroleum Geologists, National Meeting, Salt Lake City, UT.

[Abstract in PDF](#)
[Presentation slides](#)

Submitted comments to DOGGR (Division of Oil, Gas, & Geothermal Resources, California Department of Conservation) on February 27, 2018, RE: Public Comments to Modifications to Requirements for California. Underground Gas Storage Projects..... 1726.3. (Risk Management Plans).....GMF Comment on DOGGR Modifications to UGS Regulations http://geologicmapsfoundation.org/resources/GMF_comment_on_DOGGR_modifications_UGS_regulations_27Feb2018.pdf

2) 2017:

Science article discussing the Santa Susana fault hazard at the Aliso Canyon gas storage field and quality of scientific effort:

http://geologicmapsfoundation.org/resources/Science_3Nov2017_EvaluatingFaultLinesinAliso_v358_issue6363_p601.pdf

Presentations given to three professional geologic societies, Fault displacement hazards at Aliso Canyon and Honor Rancho natural gas storage fields, southern California:

- 9/11/2017, South Coast Geological Society, Santa Ana, CA, http://southcoastgeo.org/?page_id=12
- 10/17/2017, Coast Geological Society, Ventura, CA, <http://www.coastgeologicalsociety.org/home.html>
<https://www.facebook.com/coastgeologicalsociety/>
- 11/14/2017, San Joaquin Geological Society, Bakersfield, CA 9/11/2017, South Coast Geological Society, Santa Ana, CA, <http://sanjoaquingeologicalsociety.org/current-abstract/>

OpEd in LA Daily News discussing fault hazard at field and quality of scientific effort:

http://geologicmapsfoundation.org/resources/OpEd_LA_Daily_News_06Aug2017.pdf

Comments to PHMSA (Pipeline and Hazard Materials Safety Administration, U.S. Department of Transportation) on the Interim Final Rules (IFR) for interstate and intrastate gas storage fields: Inclusion of the earthquake fault displacement hazard and risk management into IFR, dated February 8, 2017,

http://geologicmapsfoundation.org/resources/Comments_to_IFR_08Feb2017.pdf

3) 2016:

Comments to DOGGR (Division of Oil, Gas, & Geothermal Resources, California Department of Conservation) regarding Supplement to SoCalGas' Storage Risk Management Plan #2, (10/11/2016), and shown as Attachment B to Letter from Southern California Gas to DOGGR

and CPUC, dated November 1, 2016,

http://geologicmapsfoundation.org/resources/GMF_Comment_to_Risk_Mgmt_Plan_2_06Feb2017_Final.pdf

Presentations given at professional society meetings and technical workshops:

Davis, T.L., 2016a, Well integrity and active faulting: presentation at the Workshop on Well Integrity for Natural Gas Storage in Depleted Reservoirs and Aquifers, U.S. DOE National Laboratories, Broomfield, CO, July 12-13, 2016

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_____, 2016b, The Santa Susana fault, Aliso Canyon gas storage field, southern California-possible fault rupture hazard, gas well integrity, and regulatory implications (abstract): Joint Annual Meeting of Pacific and Rocky Mountains Sections American Association of Petroleum Geologists (AAPG) Las Vegas, NV, October 2-5, 2016.

[Abstract in PDF.](#)

_____, 2016c, Fault displacement hazard at natural gas storage fields-a future research and regulatory direction: presentation at the Fault Displacement Hazard Analysis Workshop, December 8 – 9, 2016, Menlo Park, CA.

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[Presentation slides.](#)

Rohingya Refugee Crisis:

- 1) Provided GIS geologic mapping of Chittagong Hills, Bangladesh to Groundwater Relief (<http://groundwater-relief.org/>) for providing clean water at 3 refugee camps in Ukha and Teknaf Peninsula area of Bangladesh.

Debris Flow Hazards:

- 1) Debris Flow Facts & Safety Following the 2018 Ventura County Fires (11/28/2018): http://geologicmapsfoundation.org/resources/DEBRIS_FLOW_SAFETY_IN_VENTURA.pdf
- 2) Debris Flow Facts & Safety Following the Thomas Fire & Montecito Debris Flows, Southern California (1/30/2018): http://geologicmapsfoundation.org/resources/DEBRIS_FLOW_SAFETY_IN_VENTURA.pdf
- 3) Debris Flow Facts & Safety in Ventura: Debris flow safety summary in response to Thomas Fire's impact on the Ventura hillsides: Debris Flow Facts & Safety in Ventura (first distributed 12/22/2017): http://geologicmapsfoundation.org/resources/DEBRIS_FLOW_SAFETY_IN_VENTURA_OLD.pdf

Geologic Field Trips:

The Geologic Maps Foundation sponsored and led several professional society field trips in 2016-2018:

- 1) Geologic field trip to the Mojave National Preserve, California, 2016: <http://geologicmapsfoundation.org/resources/Geology%20of%20the%20Mojave%20National%20Desert%20Preserve%2023Sept2016.pdf>
- 2) Structural Geology and Oil Field Traps of the Western and Southern Margins of the San Joaquin Basin, California, 2016: <http://geologicmapsfoundation.org/resources/PS%20AAPG%202016%20Structure%20of%20WSSJB%20guidebook.pdf>
- 3) Structural transect along Highway 33, Ventura to the Cuyama Badlands, California (April 2, 2017): http://geologicmapsfoundation.org/resources/Structural_transect_along_Highway_33-02Apr2017_final.pdf
- 4) Santa Rosa Island Geology Field Trip (August, 2017): <http://geologicmapsfoundation.org/trips-santarosaisland-82017.html>
- 5) Structure of the northwestern Transverse Ranges and southeastern Coast Ranges, California, In conjunction with the Pacific Section American Association of Petroleum Geologists Annual Meeting, Bakersfield, CA 22-25 April 2018.

Geo-hikes:

This Meetup group is open to hikers, professional geologists, geology instructors, and geology students. Participants meet others with similar interests while getting great exercise. You do not have to be a geologist to attend but an eagerness to learn some basic geology and map reading skills are a must. Past and future events are posted at:

<https://www.meetup.com/Geo-hikes/>

Please share our efforts with any interested party or organization.

Much appreciated,

Thom

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