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### **Geoscience Bulletin Board – 26 November 2018 – compiled by Elaine J. Hanford**

Caltrans finally embraces cone penetrometer testing in seismic design of highway bridges – some of us were using it in California for geotechnical investigations back in the 1970s

- <https://www.roadbridges.com/assessing-impact>

Expanded polystyrene being used to insulate permafrost beneath Dalton Highway in Alaska

- <https://www.plasticsnews.com/article/20181116/NEWS/181119933/insulating-foam-paves-the-way-for-ice-road-truckers>

“Laser guide stars” created and used to assess magnetic field of Earth

- <https://www.sciencedaily.com/releases/2018/11/181114104048.htm>

USGS conducting analysis of sediment cores to assess metals within Lake Powell sediments

- <https://www.usgs.gov/news/view-sediment-core-collection-lake-powell>
- <https://www.deseretnews.com/article/900043259/study-will-look-at-mining-pollution-at-lake-powell.html>

Airborne magnetic survey augmenting geophysical survey will map geology of SE Missouri, including St Francois Mountains & New Madrid Zone

- <https://www.usgs.gov/news/low-flying-airplane-map-geology-southeast-missouri>

Site of magnetic reconnection located in magnetotail of Earth

- [http://www.spacedaily.com/reports/Satellites\\_encounter\\_magnetic\\_reconnection\\_in\\_Earths\\_magnetotail\\_999.html](http://www.spacedaily.com/reports/Satellites_encounter_magnetic_reconnection_in_Earths_magnetotail_999.html)

Fuego volcano erupted for 5<sup>th</sup> time in 2018

- [http://www.spacedaily.com/reports/Thousands\\_evacuated\\_as\\_Guatemala\\_volcano\\_erupts\\_then\\_stops\\_999.html](http://www.spacedaily.com/reports/Thousands_evacuated_as_Guatemala_volcano_erupts_then_stops_999.html)
- [http://www.terradaily.com/reports/Red\\_alert\\_after\\_Guatemala\\_volcano\\_erupts\\_again\\_200\\_flee\\_999.html](http://www.terradaily.com/reports/Red_alert_after_Guatemala_volcano_erupts_again_200_flee_999.html)

Landscape of Antarctica was shaped by rivers during warmer era prior to the Ice Sheet

- [http://www.spacedaily.com/reports/Antarcticas\\_hidden\\_landscape\\_shaped\\_by\\_rivers\\_in\\_warmer\\_era\\_999.html](http://www.spacedaily.com/reports/Antarcticas_hidden_landscape_shaped_by_rivers_in_warmer_era_999.html)

For the global warming alarmists: Purpose of study “to examine how warming caused by human activities may have impacted these storms & could affect similar storms in the future”

- [http://www.spacedaily.com/reports/Climate\\_simulations\\_project\\_wetter\\_windier\\_hurricanes\\_999.html](http://www.spacedaily.com/reports/Climate_simulations_project_wetter_windier_hurricanes_999.html)

Measuring methane emissions from Sólheimajökull volcanic glacier in Iceland

- [http://www.spacedaily.com/reports/Glaciers\\_and\\_volcanoes\\_combine\\_to\\_release\\_large\\_amounts\\_of\\_methane\\_999.html](http://www.spacedaily.com/reports/Glaciers_and_volcanoes_combine_to_release_large_amounts_of_methane_999.html)

*Dromaeosauriformipes rarus* - 110 myo tiny dinosaur footprints may be new species of raptor or perhaps dinosaur chicks

- [http://www.terradaily.com/reports/Worlds\\_smallest\\_dinosaur\\_tracks\\_reveal\\_new\\_sparrow-sized\\_raptor\\_999.html](http://www.terradaily.com/reports/Worlds_smallest_dinosaur_tracks_reveal_new_sparrow-sized_raptor_999.html)

Geologist follows 315 myo footprints from small primitive reptile into the Grand Canyon

- <https://www.reviewjournal.com/news/science-and-technology/unlv-geologist-follows-ancient-footprints-into-grand-canyon-1533245/>

Pre-failure analysis of the Gagraskogarfjall landslide in western Iceland

- <https://blogs.agu.org/landslideblog/2018/11/22/fagraskogarfjall-landslide-insar/>

Benthic bacteria at depths of 4,000+ meters are absorbing estimated 10% of CO<sub>2</sub> annually

- <https://www.iflscience.com/environment/something-living-at-the-bottom-of-the-sea-is-absorbing-large-amounts-of-the-co2-in-oceans/>

Brittle overprinting in the South Mountains metamorphic core complex in Phoenix, Arizona

- <https://blogs.agu.org/mountainbeltway/2018/11/21/brittle-ductile-south-mountains-arizona/>

Cobalt deposits in largest cobalt-mining region are 150M years younger than previously thought

- <https://phys.org/news/2018-11-earth-cobalt-deposits-previously-believed.html>

Catalina Island off the southern California coast is sinking – key to understanding plate tectonics and EQ risk in the region

- <https://phys.org/news/2018-11-island-sea-level-earthquakes.html>

“True polar wander” may have caused the last ice age

- <https://www.astrobio.net/also-in-news/true-polar-wander-may-have-caused-ice-age/>
- <https://phys.org/news/2018-11-true-polar-ice-age.html>

Methane concentrations in gas bubbles in ground and surface waters may distinguish pre-existing levels as baseline for new drilling-related sources in Marcellus Shale

- <https://phys.org/news/2018-11-ground-stream-clues-reveal-shale.html>

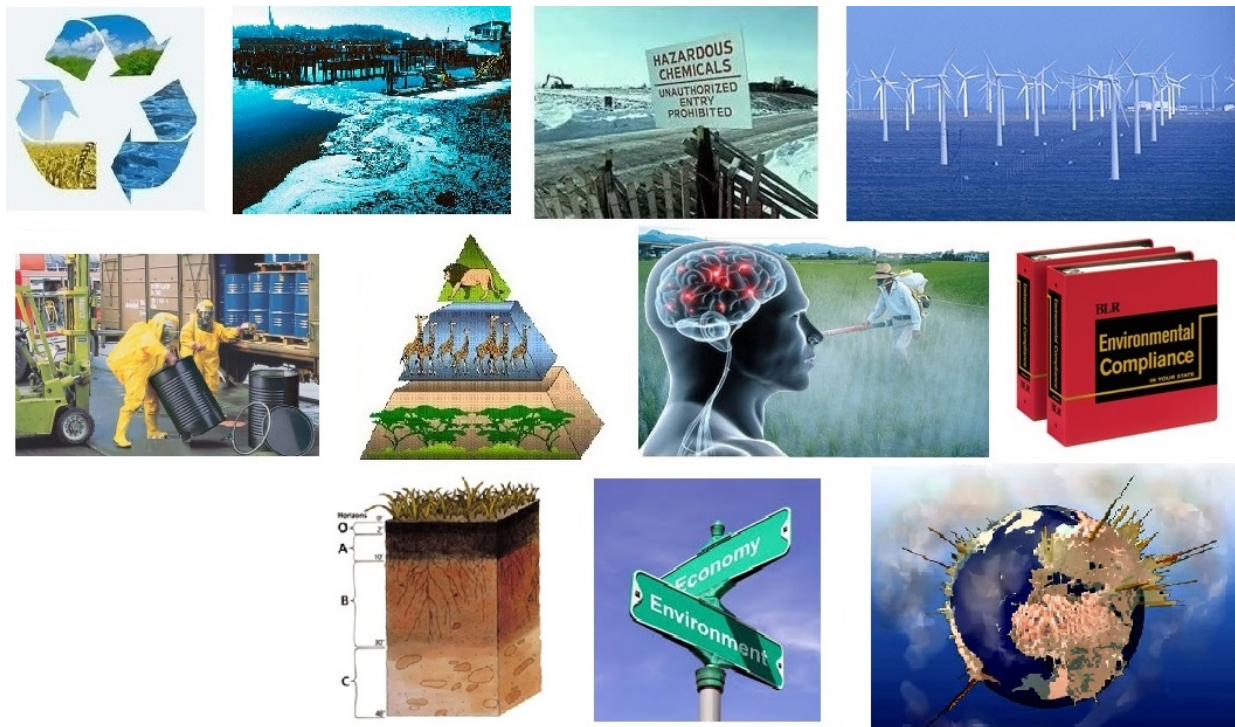
*Losowicia bojani* – newly discovered species of gigantic dicynodont

- [https://www.eurekalert.org/pub\\_releases/2018-11/uu-gm112118.php](https://www.eurekalert.org/pub_releases/2018-11/uu-gm112118.php)
- [https://www.eurekalert.org/pub\\_releases/2018-11/aft-etc111918.php](https://www.eurekalert.org/pub_releases/2018-11/aft-etc111918.php)

New electro-chemical process for removing toxic mercury from contaminated water

- [https://www.eurekalert.org/pub\\_releases/2018-11/cuot-rtm112018.php](https://www.eurekalert.org/pub_releases/2018-11/cuot-rtm112018.php)
- Paper: <https://www.nature.com/articles/s41467-018-07300-z>

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## Environmental Science Bulletin Board – 26 November 2018 – compiled by Elaine J. Hanford

Another outbreak of pathogenic *E. coli* across the US & Canada from contaminated romaine lettuce from California

- <https://arstechnica.com/science/2018/11/trash-your-romaine-lettuce-and-dont-eat-any-in-restaurants-says-the-cdc/>
- <https://www.nbcnews.com/health/health-news/california-may-be-source-latest-romaine-lettuce-e-coli-outbreak-n939026>

Animals rescued from Camp Fire in northern California

- <https://www.dailydemocrat.com/2018/11/15/its-a-little-miracle-animals-rescued-from-the-flames-of-the-camp-fire/>

Rain finally came to California and helped subdue Camp Fire – concerns for mudslides & flooding

- <https://www.sfgate.com/bayarea/article/Rainstorm-helps-douse-Camp-Fire-cleans-air-13414708.php>

50 incredible animals from our National Parks

- [https://start.att.net/news/read/article/good\\_housekeeping-50\\_stunning\\_animals\\_from\\_our\\_national\\_parks-rhearst/category/lifestyle](https://start.att.net/news/read/article/good_housekeeping-50_stunning_animals_from_our_national_parks-rhearst/category/lifestyle)

World Toilet Day highlighted sheer size of the human population & lack of sanitation – but even if all had access to a toilet then where does the human waste go when it is flushed?

- <https://www.apnews.com/3652dc232c6c4e9f92cc0650e2ff3489>
- WaterAid Report: [https://www.wateraid.org/au/sites/g/files/jkxoof231/files/2018-11/WTD\\_Report\\_2018\\_A4\\_28pp\\_FINAL\\_FOR\\_ONLINE.pdf](https://www.wateraid.org/au/sites/g/files/jkxoof231/files/2018-11/WTD_Report_2018_A4_28pp_FINAL_FOR_ONLINE.pdf)

3D cementitious sandwich panels could have reduced structural loss in California wildfires

- <https://www.cnbc.com/2018/11/16/rsg-3-ds-building-panel-could-help-protect-homes-during-wildfires.html>

African swine fever identified in wild boar - US to increase inspections - chicken demand increases

- <http://www.macaubusiness.com/new-blow-to-china-as-african-swine-fever-found-in-wild-boar/>
- <https://whotv.com/2018/11/16/swine-specialists-ask-usda-to-step-up-disease-inspections/>
- <https://www.middletonpress.com/business/article/China-s-demand-for-chicken-soars-as-sick-pigs-13395213.php>

Andrew Wheeler, former acting chief, promoted to permanent US EPA Chief

- <https://www.apnews.com/db8f8e9a0c074b42a7c14d42eae6301c>

USDA launches new biosecurity campaign to protect health of poultry

- <https://content.govdelivery.com/accounts/USDAAPHIS/bulletins/21bf9e3>

Decision of Circuit Court of Appeals should send Grand Canyon Mine lawsuit back to court

- <https://www.grandcanyontrust.org/blog/court-reverses-course-canyon-mine-lawsuit>

Anti-vaccination stronghold at private school in North Carolina hit with chickenpox outbreak

- <https://www.mercurynews.com/2018/11/19/anti-vaccination-stronghold-hit-with-worst-chickenpox-outbreak-in-decades/>

International law enforcement operation identifies hundreds of marine pollution violations

- <https://www.unenvironment.org/news-and-stories/press-release/first-global-multi-agency-operation-highlights-widespread-marine>

WHO says lab tests confirm toxic waters in Iraq led to fish die-off in Euphrates River – high levels of bacteria, heavy metals & ammonia

- <https://www.660citynews.com/2018/11/20/who-says-iraq-river-pollution-toxic-to-fish/>

Norway calling jet fuels produced from biofuels “good” for the climate – new 30% goal

- <https://phys.org/news/2018-11-bio-jet-fuels-good-climate.html>

Puerto Rico seeking increased federal funding for recovery from Hurricane Maria

- <https://www.apnews.com/0efdf6b162b14f13bbc265444da4bfde>

Assuming “global warming alarmists” are correct, Dems ask for info on greenhouse gas policies

- <https://thehill.com/policy/energy-environment/417615-house-dems-probe-trumps-climate-rollbacks>

New map depicting extent of human-induced environmental degradation across the Earth

- [http://www.spacedaily.com/reports/Powerful\\_new\\_map\\_depicts\\_environmental\\_degradation\\_across\\_Earth\\_999.html](http://www.spacedaily.com/reports/Powerful_new_map_depicts_environmental_degradation_across_Earth_999.html)

Unhealthy levels of air pollution from California wildfires “paralyze” San Francisco region

- [http://www.terradaily.com/reports/California\\_wildfire\\_pollution\\_paralyzes\\_San\\_Francisco\\_region\\_999.html](http://www.terradaily.com/reports/California_wildfire_pollution_paralyzes_San_Francisco_region_999.html)

US Army works to increase security of the country & citizens along border with Mexico

- [http://www.terradaily.com/reports/US\\_Army\\_unfurls\\_miles\\_of\\_fencing\\_along\\_border\\_with\\_Mexico\\_999.html](http://www.terradaily.com/reports/US_Army_unfurls_miles_of_fencing_along_border_with_Mexico_999.html)

No surprise – Monsanto begins appealing landmark Roundup weed-killer cancer verdict

- [http://www.seeddaily.com/reports/Monsanto\\_appeals\\_Roundup\\_cancer\\_verdict\\_999.html](http://www.seeddaily.com/reports/Monsanto_appeals_Roundup_cancer_verdict_999.html)

New global vegetation database contains more than 1.1M complete lists of plant species sampled across the ecosystem

- [http://www.spacedaily.com/reports/Researchers\\_present\\_unique\\_database\\_on\\_Earths\\_vegetation\\_999.html](http://www.spacedaily.com/reports/Researchers_present_unique_database_on_Earths_vegetation_999.html)

Large tracts of Brazilian rainforest at risk of losing legal protection

- [http://www.terradaily.com/reports/Large\\_areas\\_of\\_the\\_Brazilian\\_rainforest\\_at\\_risk\\_of\\_losing\\_protection\\_999.html](http://www.terradaily.com/reports/Large_areas_of_the_Brazilian_rainforest_at_risk_of_losing_protection_999.html)

16 novel giant viruses discovered in Harvard Forest soil ecosystem in Massachusetts

- [http://www.terradaily.com/reports/Giant\\_viruses\\_has\\_been\\_found\\_in\\_a\\_soil\\_ecosystem\\_999.html](http://www.terradaily.com/reports/Giant_viruses_has_been_found_in_a_soil_ecosystem_999.html)

Dead sperm whale washed up in Indonesia had 115 cups & 2 flip-flops, 25 plastic bags, 4 plastic bottles, a nylon sack & more than 1,000 other pieces of plastic in its stomach

- <https://www.canberratimes.com.au/environment/sustainability/dead-whale-had-115-plastic-cups-2-flip-flops-in-its-stomach-20181120-p50h9p.html>

Heavy industry left neighborhoods of North Birmingham with toxic residue – Part 2

- <https://www.ehn.org/alabama-superfund-bribery-environmental-justice-2620705289.html?rebelltitem=4#rebelltitem4>
- Part 1 - <https://www.ehn.org/birmingham-alabama-environmental-justice-2620697262.html>

Dow Chemical Company sponsored testing on chlorpyrifos pesticide was biased

- <https://www.ehn.org/industry-studies-on-chlorpyrifos-misleading-2619918322.html>

Sydney, New South Wales, Australia coping with dust storm & health warnings

- <https://www.bbc.com/news/world-australia-46298309>

Earwax plugs in whales record stress hormones that reflect history of modern whaling

- <https://www.theatlantic.com/science/archive/2018/11/astonishing-history-locked-whale-earwax/576349/>

Investigating the cause of the Carr Fire & the Camp Fire in northern California

- <https://www.theatlantic.com/science/archive/2018/11/california-wildfires-fire-investigators/576286/>

Teaching the dogma of global warming alarmists?

- <https://www.mprnews.org/story/2018/11/21/minnesota-science-education-standard-climate-change-human-caused>

How to restore the forests of Japan? Restore wolves & cull deer and wild boar

- <https://news.mongabay.com/2018/11/restore-wolves-or-slaughter-deer-to-save-japanese-forests/>

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**Coastal Zone Management Bulletin Board – 26 November 2018 – compiled by Elaine J. Hanford**

Fish populations do not hold up to expectations of fishermen on coastal lakes

- [https://theworldlink.com/community/reedsport/sports/pete-heley-fisheries-are-hurting-on-coastal-lakes/article\\_35ef2771-8839-51d9-8081-33943d799102.html](https://theworldlink.com/community/reedsport/sports/pete-heley-fisheries-are-hurting-on-coastal-lakes/article_35ef2771-8839-51d9-8081-33943d799102.html)

Is more lighting really appropriate for Coastal Highway in Maryland?

- <https://mdcoastdispatch.com/2018/11/15/coastal-highway-lighting-decision-divides-city-council/>

Woolsey Fire results in suspending film permits in California coastal cities

- <https://www.screendaily.com/news/california-coastal-authorities-suspend-film-permits-amid-wildfires/5134594.article>

Coastal shipping shows signs of economic improvement in Greece

- <https://news.gtp.gr/2018/11/19/greece-coastal-shipping-signs-improvement-seen-chief/>

“Gulf of America” art exhibit highlights coastal life

- <https://www.wlox.com/2018/11/17/page-art-exhibit-gulf-america-highlights-coastal-life/>

\$55M+ safety improvement or “Bridge2Nowhere” being debated in coastal Alabama

- <https://www.al.com/news/beaches/2018/11/safety-need-or-bridge2nowhere-large-crowd-speaks-out-on-coastal-alabama-bridge-project.html>

Italian authorities demand seizure of Doctors Without Borders ship for alleged dumping of contaminated and medical waste at port

- <https://www.npr.org/2018/11/20/669596607/italy-wants-rescue-ship-seized-accuses-doctors-without-borders-of-illegal-dumpin>

State law dictates response to derelict, abandoned & displaced vessels along coastal North Carolina following Hurricane Florence – Part 2 of series

- <https://www.coastalreview.org/2018/11/state-law-dictates-displaced-boat-response/>
- Part 1: <https://www.coastalreview.org/2018/11/hundreds-of-derelict-boats-left-storms-wake/>

Perspective: Why many coastal states continue to allow building homes in flood zones

- <https://www.valuepenguin.com/news/home-construction-high-risk-flood-zones>

Sea turtles given “tender love” on the beach in Sansha in coastal China

- [http://www.china.org.cn/china/2018-11/20/content\\_73956767.htm](http://www.china.org.cn/china/2018-11/20/content_73956767.htm)

Demanding suitable measures be undertaken to address Ennore port oil spill

- <https://www.thenewsminute.com/article/ennore-port-oil-spill-ensure-cleanup-or-face-action-coast-guard-writes-ship-company-91866>

Collins Park in Miami Beach closed due to fecal enterococci bacteria in waters

- <https://www.nationofchange.org/2018/11/20/florida-beaches-closed-due-to-fecal-bacteria-in-water/>

Coastal erosion at Pantai Puteri beach, Melaka, destroys trees - caused by marine reclamation?

- <https://www.thestar.com.my/news/nation/2018/11/21/coastal-erosion-pantai-puteri-melaka-destroys-trees/>