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**Geoscience Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford**

**Planetary Geology** – Simulations suggest Uranus was struck by Earth-sized body
- [https://start.att.net/news/read/category/news/article/bgr-uranus_was_slammed_by_an_object_twice_the_size_of-rpenskemc](https://start.att.net/news/read/category/news/article/bgr-uranus_was_slammed_by_an_object_twice_the_size_of-rpenskemc)

Less wastewater injection reduces seismic activity in Oklahoma but still above historical averages

Some evidence for the cause of the Great Unconformity across the world

**Klobiodon rochei** – new order of Middle Jurassic pterosaurs discovered in England

Permian “hidden cradle of plant evolution” discovered in Jordan

Anak Krakatoa lost two-thirds of height – estimated 150M to 180M cubic meters of material lost during eruption and landslide
Tackling Ordovician integrative stratigraphy and timescale subdivision and correlation in China

Low-intensity “hum” caused by slow slip near Vancouver Island may help predict next major EQ in Cascadia Subduction Zone

Drilling project begins for Baringo-Silali geothermal Project in Kenya

Peak Oil Review

Science News for Students: Asteroid impact in Greenland may have triggered Younger Dryas cooling
- https://www.sciencenewsforstudents.org/article/massive-crater-hides-under-greenlands-ice

Mary Anning changed fossil hunting and dinosaur science

Temperatures increase as continental collision develops & result in Barrovian sequence of regional metamorphism
- https://eos.org/research-spotlights/regional-metamorphism-occurs-before-continents-collide

15th International Circumpolar Remote Sensing Symposium was held in Potsdam, Germany
- https://eos.org/meeting-reports/remote-sensing-leads-to-better-understanding-of-polar-regions

Geophysical methods may provide methods of soil structure characterization over varied spatial & temporal scales

Exploring the far side of the Moon – geological & geopolitically significant

Creating a “virtual seismologist”
Geologically constrained velocity models improve field development

Derivation of some geologic terms: orogeny, ostracods, schist & gneiss
- https://interestingengineering.com/8-fascinating-origins-of-some-common-science-words

Reflections on the legacy of Grove Karl Gilbert (1843-1918)

Exploring the inside of a glacial crevasse
- https://www.accuweather.com/en/videos/incredible-footage-shows-explorer-climbing-up-glacier-crevasse/n3n2h5rze6goacq31ytzyzt8wurc1ub8

Seismic hazard estimate for Seattle has increased – the M9 project
- The Project: https://hazards.uw.edu/geology/m9/

Zircon crystals may not provide evidence of early development of magnetic field of Earth

Environmental Science Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford

Easy New Year resolution: consume less
Fungus-like infection detected in wild ponies in Chincoteague National Wildlife Refuge – 7 dead to date


Re-evaluating mercury emissions standards based on cost-benefit standard in Clean Air Act

- https://apnews.com/5c675cd468e648e7b97d4988bb3d05e

Perspective: Lessons from Orange County, California, water strategy: recycling & efficiency


In China, 1.39B population is aging and birth rate is declining

- https://start.att.net/news/read/category/news/article/newsweek-experts_chinas_population_is_degenerating-rnewsweek

Centuries old hydraulic systems to improve access to water in Peruvian Andes

- https://www.npr.org/sections/goatsandsoda/2019/01/02/600833370/climate-change-is-bad-for-perus-pastures-but-there's-a-1-200-year-old-solution

US ends 2018 with much of the West again in drought


Mojave County, Arizona, coping with too much agriculture and water wells – groundwater declines

- https://www.eenews.net/stories/1060110247

Three beetles named after “Game of Thrones” dragons

- https://www.huffingtonpost.com/entry/brett-ratcliffe-game-of-thrones-beetles_us_5c2a7256e4b08aaf7a92e3de

More than 10,000 contracted Hepatitis A in outbreaks across the US in 2018 – mostly homeless & drug-using populations

- https://www.huffingtonpost.com/entry/hepatitis-a-outbreak-america_us_5c0ecf0fe4b06484c9fd9d0c

Mega-sewer beneath the City of Chicago – attempting to build their way out of a problem

- https://slate.com/business/2019/01/chicagos-deep-tunnel-is-it-the-solution-to-urban-flooding-or-a-cautionary-tale.html

Trawler ran aground at Svalbard – crew rescued but 300,000 liters of diesel oil remain on board


Yosemite visitors creating crisis of garbage and human waste in the National Park

Apparent reversal in shrinking of Lake Urmia in Iran
  • http://www.terradaily.com/reports/Iran_sees_revival_of_imperilled_Lake_Urmia_999.html

Zinc is essential component of health and metabolic functions
  • http://www.terradaily.com/reports/Genetic_polymorphisms_and_zinc_status_999.html

Men should consider how exposure to THC in pot could impact their sperm and possibly future children
  • https://www.sciencedaily.com/releases/2018/12/181219075846.htm

Previously unknown strain of bacteria from ancient Irish soil halts growth of superbugs
  • https://www.sciencedaily.com/releases/2018/12/181227111427.htm

Chinese war on particulate air pollution causing more severe ozone pollution

Agricultural nutrient & sediment runoff impact stream water quality over time – conservation tillage

2020 Olympic torches to be made from aluminum recycled from Fukushima temporary housing

New study modeled complementarity in Texas of wind & solar resources for power generation

Maryland banned fracking & now rejects proposed TransCanada pipeline under the Potomac River
  • https://www.apnews.com/87385a8db7094a28814c8abb12c035c2

Woman in Virginia dies from rabies weeks after being bitten by dog in India
  • https://www.cdc.gov/mmwr/volumes/67/wr/mm675152a2.htm?s_cid=mm675152a2_w

Book Review: Sicker, Fatter, Poorer” - costs of hormone-disrupting chemicals

Monarch Butterflies are now wintering in Florida rather than Mexico
  • https://www.popsci.com/monarch-butterflies-winter-destinations-florida#page-2

Endangered Florida panther habitat for hunting & roaming lies within proposed construction area
  • https://www.theguardian.com/us-news/2019/jan/02/florida-panther-extinction-collier-county-development-project

Seeking to unify river corridor exchange in propagation & transformation of landscape
  • https://www.advancedscienecenews.com/advancing-predictive-understanding-of-river-corridor-exchange/
Coastal Zone Management Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford

2\textsuperscript{nd} tallest cable-stayed bridge in the US in final year of construction

18-km sunken-tube road & rail tunnel will link Denmark & Germany

20-year old wind farm off coast of Sweden upgraded and revitalized

Trash is economic, environmental, human health, and aesthetic problem for Gulf Coast communities

Seagrass beds are effective in protecting tropical beaches from erosion – saves beaches & money

Down to Earth with Coastal Scientist Gary Griggs

Major tsunami struck southern coast of China in 1076 causing “drastic cultural decline”

Increased seismic research in Eastern Mediterranean by Turkey angers Cyprus & Greece
- https://ahvalnews.com/eastern-mediterranean/increased-turkish-seismic-research-eastern-mediterranean-angers-cyprus-and
Potential consequence of poor coastal planning in New Jersey
• https://whyyp.org/articles/poor-coastal-planning-makes-n-j-vulnerable-as-climate-changes-study-finds/

Being born in these coastal areas may mean longer lifespan
• https://www.coastalliving.com/lifestyle/florida-life-expectancy-longer

In response to lawsuit – Oregon must issue new regulations addressing trapping of critically imperiled Humboldt martens in coastal forests

Bird habitat preservation initiative adds 1700 acres of coastal land in New Jersey

Recycled Christmas trees to be used as natural sand fence in Virginia to reduce coastal erosion

US Army Corps of Engineers awarded $92M contract for first phase to deepen & widen Corpus Christi Ship Channel – project estimated at $326M