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**Geosciences Bulletin Board – 13 July 2015**

148 mya Cleveland-Lloyd Dinosaur Quarry: Predator trap or poisoned geological crime scene?

History of the Scopes Trial and the teaching of evolution

Desert Research Institute investigates ice cores to study impacts of two historic volcanic eruptions

Planetary (?) geology: New Horizon probe approaching Pluto flyby on 14 July

Maybe…just maybe….Pluto will regain its status as a planet based on latest NASA images

NASA has recalculated volumes of water moving through the Water Cycle

These sharks are swimming around the active submarine Kavachi volcano (video)
Conflicting testimonies given on seismic safety of Diablo Canyon nuclear plant
  • http://www.power-eng.com/articles/2015/07/panel-hears-conflicting-safety-assessments-for-diablo-canyon.html

Landforms result from a balance of erosion and soil formation
  • http://www.technology.org/2015/07/08/uo-team-opens-window-landscape-formation/

Interview: Perspective on life as a geologist behind bars in Chinese prison
  • http://www.sciencemag.org/content/349/6243/13.full

Coal production from mining with mountaintop removal has declined significantly

Stratospheric intrusions accompany the Santa Ana winds and enhance wild fire risks

Ordovician fossils from Morocco are redefining evolutionary history
  • http://www.sciencedaily.com/releases/2015/07/150707213241.htm

Great Karoo formation in Africa yields clues to mid-Permian mass extinction 260 mya
  • http://www.sciencedaily.com/releases/2015/07/150707213116.htm

Evolution of the nose horn in the Triceratops family

Lessons learned from the 2013 Rim Fire that ravaged parts of Yosemite
  • http://www.terradaily.com/reports/Yosemite_forest_fire_example_of_possible_things_to_come_999.html

We know the magnetic field of Earth is weakening...but when exactly did the last magnetic reversal that created the Matuyama-Brunhes boundary (MBB) occur?
  • http://www.spacedaily.com/reports/Improved_age_for_Earths_latest_magnetic_field_reversal_using_radiometric_dating_999.html

Just how did the Woolly Mammoth become woolly?
  • http://science.psu.edu/news-and-events/2015-news/Miller7-2015

US Dept of Interior has been releasing large volumes of water to the Colorado River
  • http://www.treehugger.com/conservation/why-are-they-flooding-grand-canyon.html

New Zealand hoping to benefit from Chinese studies of animal activity as detectors of EQs
  • http://www.stuff.co.nz/science/70048317/kiwi-scientists-watch-as-china-studies-quake-warning-signs-from-animals

Studying the Moon to learn about the geologic history of Earth

Sea floor hot springs are significant source of iron in the ocean
Seismologists work 24/7 to identify and locate major earthquakes
• http://www.nature.com/news/the-24-7-search-for-killer-quakes-1.17914

Storm chasers chase violent storms at night across the Great Plains
• http://www.nature.com/news/night-time-storm-chasers-stalk-their-prey-on-us-plains-1.17925

Geologists have contrary interpretations on existence of active faults in Hollywood

Enviro-Sciences Bulletin Board – 13 July 2015 – compiled by Elaine J. Hanford

Extreme makeover: this is what humans are doing to the planet
• http://www.sciencedaily.com/releases/2015/06/150629080158.htm

Catastrophic floods in China resulted from air pollution
• http://news.sciencemag.org/asiapacific/2015/07/catastrophic-chinese-floods-triggered-air-pollution

Worst shark attack in recorded history
• http://www.smithsonianmag.com/history/the-worst-shark-attack-in-history-25715092/

Understanding the complexity of antibiotic resistance and the roll humans play

US Government views on wild horses
Obama Administration denies disaster assistance to Iowa in wake of massive HPAI outbreak that impacted more than 33 million birds and is causing economic hardships


Mercury scrubbers on power plants also reduce other air pollutants


South Africa's professional hunters defend trophy hunting as a key element in wildlife conservation (video) …or is this the epitome of human rationalization for a barbaric practice?

- [http://www.sciencedaily.com/videos/ea9a952ba754e44f6d56d84569404c9f.htm](http://www.sciencedaily.com/videos/ea9a952ba754e44f6d56d84569404c9f.htm)

California cities look to desalination to help solve water woes

- Santa Barbara: [http://www.washingtonpost.com/national/health-science/california-citizens-desalination-push-sparks-debate-over-costs-coastal-impact/2015/07/08/8f0b2ede-1a84-11e5-bd7f-4611a60dd8e5_story.html](http://www.washingtonpost.com/national/health-science/california-citizens-desalination-push-sparks-debate-over-costs-coastal-impact/2015/07/08/8f0b2ede-1a84-11e5-bd7f-4611a60dd8e5_story.html)

New model of complex marine food web highlights potential consequence of loss of fish biodiversity

- [http://www.sciencedaily.com/releases/2015/07/150708072518.htm](http://www.sciencedaily.com/releases/2015/07/150708072518.htm)

Why do men have a shorter lifespan than women?


Groundwater is important to food security

- [http://www.sciencedaily.com/releases/2015/07/150708090836.htm](http://www.sciencedaily.com/releases/2015/07/150708090836.htm)

Consumer-driven demand for high-tech and the waste that doesn’t go away


Understanding how Dengue fever virus adapts as it migrates

- [http://www.terradaily.com/reports/Study_explains_how_dengue_virus_adapts_as_it_travels_increasing_chances_for_outbreaks_999.html](http://www.terradaily.com/reports/Study_explains_how_dengue_virus_adapts_as_it_travels_increasing_chances_for_outbreaks_999.html)

Model developed to predict bird fatalities caused by collisions with wind turbines


Significant volcanic activity has had major impacts on human culture over historical times


Should these 7 wide-open spaces be made National Parks to protect them?


Panthers were placed on endangered species list have since rebounded and now prowl Florida


Sex reversal observed for the first time in wild lizards

These flatworms have what we might call bizarre mating behaviors
  • http://www.terradaily.com/reports/The_bizarre_mating_habits_of_flatworms_999.html

Interview: Dr. Marcus Feldman on the science of race
  • http://www.huffingtonpost.com/2015/07/06/human-race-biology-scientific-racism_n_7699490.html

Social engagement may facilitate disaster preparedness

Giant Shenhua Watermark coal mine wins approval, but may significantly impact valuable farmlands in Australia

Possible link between fracking and high infant mortality rate

Sewage, storm water, infrastructure & lawsuits in Chicago
  • http://chicagtonight.wttw.com/2015/07/06/thinking-big-about-sewage

Want to be healthy? Then take care of the microbial community in your gut
  • http://www.nature.com/nm/journal/v21/n7/full/nm.3906.html

As many confirmed cases of rabies in Kansas as in all of last year

While those baby chicks and ducklings for sale are cute, they pose significant risk of transmitting salmonella - 181 people in 40 US states have recently been infected
  • Related - 6 patients sue Foster Farms: http://www.wattagnet.com/175541.html

Increase in shark attacks (as shark populations decline) is due to increase in human population swimming in the ocean

New strain of norovirus will give folks a tummy ache around the globe

Robot helps detect potential problems in Trans-Alaska Pipeline to allow fixes & prevent leaks