

Weekly Science Report

September 23, 2016

“Books are the carriers of civilization. Without books, history is silent, literature dumb, science crippled, thought and speculation at a standstill. I think that there is nothing, not even crime, more opposed to poetry, to philosophy, ay, to life itself than this incessant business.”

Henry David Thoreau

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Introduction

Steve Detwiler created this publication with the support of Graham Hancock and John Anthony West to share news and information on various disciplines to include but not limited to paleontology, space sciences, genetics and archaeology. His goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. This publication is Mr. Detwiler's contribution to bring people together and share ideas and discoveries with his fellow humans.

I hope you enjoy this publication and that the content challenges and inspires you!

Steve Detwiler

News Articles

Paleontology, Evolution and Prehistoric Studies

Scientists reveal most accurate depiction of a dinosaur ever created

https://www.theguardian.com/science/2016/sep/14/scientists-reveal-most-accurate-depiction-of-a-dinosaur-ever-created?CMP=fb_gu

Fossil evidence reveals that cancer in humans goes back 1.7 million years

<http://phys.org/news/2016-09-fossil-evidence-reveals-cancer-humans.html#iCp>

Questions arise after excavation of California mammoth skull

<http://www.msn.com/en-us/news/us/questions-arise-after-excavation-of-california-mammoth-skull/ar-BBwdod8>

World's oldest fish hooks found in Japanese island cave

<http://www.bbc.com/news/world-asia-37402183>

Were Humans and Neanderthals Swapping DNA Earlier Than We Thought?

http://blogs.discovermagazine.com/d-brief/2016/02/17/human-neanderthal-hook-ups-occurred-50000-years-earlier-than-expected/#.V9_rh2dOUdV

Indigenous Australians most ancient civilisation on Earth, DNA study confirms

https://www.theguardian.com/australia-news/2016/sep/21/indigenous-australians-most-ancient-civilisation-on-earth-dna-study-confirms?CMP=fb_gu

History

She was targeted as a black Muslim woman in a football ad. Here's how she responded.

https://www.washingtonpost.com/news/early-lead/wp/2016/09/12/she-was-targeted-as-a-black-muslim-woman-in-a-football-ad-heres-her-powerful-response/?tid=sm_fb

Trial of SS medic who served at Auschwitz begins in Germany

https://www.washingtonpost.com/world/europe/trial-of-ss-medic-who-served-at-auschwitz-begins-in-germany/2016/09/12/cf677c32-78d7-11e6-8064-c1ddc8a724bb_story.html

Chicago family donates prized papers to U.S. Holocaust Museum

<http://www.chicagotribune.com/entertainment/ct-holocaust-museum-donation-ent-0913-20160912-story.html>

The Maya Were Tracking the Planets Long Before Copernicus

http://www.livescience.com/55837-mayan-astronomers-made-sophisticated-calculations.html?utm_content=bufferda01b&utm_medium=social&utm_source=linkedin.com&utm_campaign=buffer

Crown of Empress Xiao of Sui Dynasty revealed in northwest China

<https://archaeologynewsnetwork.blogspot.com/2016/09/crown-of-empress-xiao-of-sui-dynasty.html#dp1KHi7cBMqv4YXm.97>

The secret libraries of history

<http://www.bbc.com/culture/story/20160819-the-secret-libraries-of-history>

Malaysia: Archaeologists find ancient shipwrecks that could rewrite Southeast Asian history

<http://www.ibtimes.co.uk/malaysia-archaeologists-find-ancient-shipwrecks-that-could-rewrite-southeast-asian-history-1518076>

The untold stories of Japanese War Brides

http://www.washingtonpost.com/sf/national/2016/09/22/from-hiroko-to-susie-the-untold-stories-of-japanese-war-brides/?tid=sm_fb

Revealed: how Indigenous Australian storytelling accurately records sea level rises 7,000 years ago

https://www.theguardian.com/australia-news/2015/sep/16/indigenous-australian-storytelling-records-sea-level-rises-over-millenia?CMP=share_btn_tw

Archaeology

AG to decide about antiquities irregularities

<http://ht.ly/2JDc3046ltn>

Global effort launched to preserve precious sites

<http://www.bbc.com/news/science-environment-37312217>

Ship found in Arctic 168 years after doomed Northwest Passage attempt

https://www.theguardian.com/world/2016/sep/12/hms-terror-wreck-found-arctic-nearly-170-years-northwest-passage-attempt?CMP=fb_gu

Lost in the Great Fire: which London buildings disappeared in the 1666 blaze?

https://www.theguardian.com/cities/2016/aug/30/great-fire-of-london-1666-350th-anniversary-which-buildings-disappeared?utm_content=bufferf4a1b&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

Goddess Alert: Marble Statues of Aphrodite Unearthed at Petra

<http://www.livescience.com/56100-aphrodite-statue-from-petra.html>

Documents detail government damage of Trail of Tears

http://www.post-gazette.com/news/nation/2016/09/19/Documents-detail-government-damage-of-Trail-of-Tears/stories/201609190083?utm_campaign=Echobox&utm_medium=Social&utm_source=Facebook#link_time=1474293192

The Mary Rose artefact scans are a new way of analyzing history

<https://theconversation.com/the-mary-rose-artefact-scans-are-a-new-way-of-analysing-history-64924>

The Powerful Objects From the Collections of the Smithsonian's Newest Museum

<http://www.smithsonianmag.com/smithsonian-institution/powerful-objects-collections-smithsonian-museum-180960126/?no-ist>

Scientists uncovered a skeleton from the ancient world's most famous — and mysterious — shipwreck

https://www.washingtonpost.com/news/speaking-of-science/wp/2016/09/20/a-skeleton-from-the-site-of-the-ancient-worlds-most-famous-shipwreck-could-reveal-creator-of-the-first-computer/?tid=sm_fb

Syrian arch razed by ISIS and re-created with 3D technology arrives in New York City

<http://www.theverge.com/2016/9/19/12972504/palmyra-arch-of-triumph-isis-3d-replica-new-york-city>

Iraq struggles to stop antiquities smuggling

<http://ht.ly/hN82304qZfV>

World's worst restoration? China's Great Wall covered in cement

<http://www.cnn.com/2016/09/21/asia/great-wall-china-cement-repair/index.html?sr=fbCNN092216great-wall-china-cement-repair0401AMStoryLink&linkId=29060537>

Scanning software deciphers ancient biblical scroll

http://bigstory.ap.org/60785bb2031a478cb71ce9278782c320?utm_campaign=SocialFlow&utm_source=Facebook&utm_medium=AP

Egyptology

Nothing to report

General Science

'Bionic Olympics' Bring Cyborg Technology To Competition

<http://www.popsoci.com/futuristic-bionic-olympics-highlights-cyborg-technology?src=SOC&dom=fb>

MIT uses radiation to read closed books

<https://www.engadget.com/2016/09/12/mit-reads-closed-books-with-radiation/>

This MacArthur winner wants every child in the world to own a microscope

http://www.pbs.org/newshour/updates/macarthur-winner-wants-every-child-world-microscope/?utm_source=facebook&utm_medium=pbsofficial&utm_campaign=newshour

Physics, Earth and Space Sciences

Chemistry says Moon is proto-Earth's mantle, relocated

<http://phys.org/news/2016-09-chemistry-moon-proto-earth-mantle-relocated.html>

What Will It Take for Humans to Colonize the Milky Way?

http://www.scientificamerican.com/article/what-will-it-take-for-humans-to-colonize-the-milky-way1/?WT.mc_id=SA_FB_SPC_NEWS

Upcoming Galaxy Map Could Radically Transform How We See the Milky Way

http://www.scientificamerican.com/article/upcoming-galaxy-map-could-radically-transform-how-we-see-the-milky-way/?WT.mc_id=SA_FB_SPC_NEWS

DARPA Wants a 'Social Supercollider' To Help It Understand Humans

<http://www.nextgov.com/defense/2016/09/darpa-wants-build-social-supercollider/131416/>

How Much Fuel Is Left in Earth's Tank?

<http://www.seeker.com/how-much-fuel-is-left-in-the-planets-tank-2003488192.html>

White House, NASA to Discuss Asteroid Redirect Mission's Importance for Journey to Mars, Planetary Defense

<https://www.nasa.gov/press-release/white-house-nasa-to-discuss-asteroid-redirect-mission-s-importance-for-journey-to-mars>

Obama To Designate First Marine National Monument In The Atlantic Ocean

http://www.npr.org/sections/thetwo-way/2016/09/15/494042979/obama-to-designate-first-marine-national-monument-in-the-atlantic-ocean?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20160915

What the 'sixth extinction' will look like in the oceans: The largest species die off first

https://www.washingtonpost.com/news/energy-environment/wp/2016/09/14/what-the-sixth-extinction-will-look-like-in-the-oceans-the-largest-species-die-off-first/?utm_term=.9231c8e8eeef

Jeff Bezos on nuclear reactors in space, the lack of bacon on Mars and humanity's destiny in the solar system

https://www.washingtonpost.com/news/the-switch/wp/2016/09/15/jeff-bezos-on-nuclear-reactors-in-space-the-lack-of-bacon-on-mars-and-humanitys-destiny-in-the-solar-system/?tid=sm_fb

Scientists may have solved a key riddle about Antarctica — and you're not going to like the answer

https://www.washingtonpost.com/news/energy-environment/wp/2016/09/20/scientists-may-have-just-solved-a-riddle-about-antarctica-and-youre-not-going-to-like-the-answer/?utm_term=.2992a7e92b02

3 Earth-sized planets discovered in Aquarius

<http://www.aol.com/article/2016/09/14/3-earth-sized-planets-discovered-in-aquarius/21472145/?ncid=txtlnkusaolp00001357>

Space Submarines Could Swim in Extraterrestrial Seas

http://blogs.discovermagazine.com/crux/2016/08/03/space-submarines-will-explore-the-solar-systems-seas/#.V9_jVGdOUdV

3D Map Of Ocean Floor Uncovers Strange Surprise

<http://www.forbes.com/sites/mallorypickett/2016/09/12/3d-map-of-ocean-floor-uncovers-strange-surprise/#230b27171ad7>

Why mining the Moon and asteroids is good for science

<http://www.skymania.com/wp/2016/04/why-mine-moon-asteroids.html/9348/>

SpaceX developing massive space ship capable of carrying 100+ humans to Mars and beyond

http://www.blastr.com/2016-9-20/spacex-developing-massive-space-ship-capable-carrying-100-humans-mars-and-beyond?WTuff0esrch=Blastr Facebook&_source=True Anthem Blastr&utm_campaign=trueAnthem:+Trending+Content&utm_content=57e1e9a204d3016735e16d9a&utm_medium=trueAnthem&utm_source=facebook

NASA to Announce 'Surprising' Europa Discovery Monday

<http://www.msn.com/en-us/news/technology/nasa-to-announce-surprising-europa-discovery-monday/ar-BBwpOrG>

China's giant space telescope starts search for alien life

<http://www.cnn.com/2016/09/21/health/china-fast-telescope-search-for-aliens/index.html?sr=fbCNN092216china-fast-telescope-search-for-aliens0601AMVODtopLink&linkId=29065584>

That frozen volcano on Ceres isn't hibernating

http://www.blastr.com/2016-9-21/frozen-volcano-ceres-isnt-hibernating?WTuff0esrch=Blastr Facebook&_source=True Anthem Blastr&utm_campaign=trueAnthem:+Trending+Content&utm_content=57e2ae8204d301114437152d&utm_medium=trueAnthem&utm_source=facebook

Blue Origin's Jeff Bezos wants to colonize the solar system, and has a few tips for NASA

http://www.blastr.com/2016-9-23/blue-origins-jeff-bezos-wants-colonize-solar-system-and-has-few-tips-nasa?_source=Blastr True Anthem Blastr Facebook&utm_campaign=trueAnthem:+Trending+Content&utm_content=57e55f9604d3015a3097957f&utm_medium=trueAnthem&utm_source=facebook

Environment, Climate Change and Alternative Energy Sources

The Business Case To Mobilize Against Climate Change: Jobs And Innovation

<https://www.fastcoexist.com/3063560/the-business-case-to-mobilize-against-climate-change-jobs-and-innovation>

Wind- and Sun-Powered Catamaran Preps for Global Voyage

<http://www.seeker.com/wind-and-sun-powered-catamaran-preps-for-global-voyage-2003218239.html>

Food waste could store solar and wind energy

<http://phys.org/news/2016-09-food-solar-energy.html>

Silent rooftop wind turbines could generate half of a household's energy needs

<http://www.goodshomedesign.com/silent-rooftop-wind-turbines-could-generate-half-of-a-households-energy-needs/>

"No evidence of recovery" as Arctic sea ice sinks to near record lows

<http://www.cbsnews.com/news/sea-ice-in-the-arctic-sinks-near-record-levels/?ftag=CNM-00-10aab6a&linkId=28842453>

First wave-produced electricity in U.S. goes online in Hawaii

<http://www.staradvertiser.com/2016/09/18/breaking-news/first-wave-produced-electricity-in-u-s-goes-online-in-hawaii/?1i>

Biological, Genetics and Medical Sciences

A Refrigerator Backpack Could Help Transport Vaccines And Organs

http://www.popsci.com/new-refrigerator-could-help-transport-vaccines-and-organs?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=57d6458e04d30151f10a8e21&utm_medium=&utm_source=

How to Help Someone Who Has a Fetal Alcohol Spectrum Disorder

<http://www.crisisprevention.com/Blog/September-2015/FASD#.V9a8WtpLV2F.facebook>

SERMC Welcomes "Fab Lab"

<http://www.navsea.navy.mil/Media/News/Article/937342/sermc-welcomes-fab-lab/>

Dolphins recorded having a conversation 'just like two people' for first time

<http://www.telegraph.co.uk/science/2016/09/11/dolphins-recorded-having-a-conversation-for-first-time/>

Reactor shutdown threatens world's medical-isotope supply

<http://www.nature.com/news/reactor-shutdown-threatens-world-s-medical-isotope-supply-1.20577>

Healthcare Is Coming Home With Sensors And Algorithms

<http://medicalfuturist.com/healthcare-is-coming-home/>

Zuckerberg, Chan Pledge \$3B to End Disease

<http://abcnews.go.com/Technology/wireStory/zuckerbergs-charitable-goal-end-disease-42256424>

Other

UNESCO science experts explore robots' rights

http://www.unesco.org/new/en/media-services/single-view/news/unesco_science_experts_explore_robots_rights/#.V9vuq2dOUdV

Additional Informational

Fallen cities: how artists have captured ruins, from Kabul to Rome – in pictures

<https://www.theguardian.com/cities/gallery/2016/aug/25/fallen-cities-artists-captured-ruins-kabul-rome-in-pictures>

Lascaux cave paintings discovered

http://www.history.com/this-day-in-history/lascaux-cave-paintings-discovered?cmpid=Social_FBPAGE_HISTORY_20160912_576911835&linkId=28487290

How Mountains In Our Solar System Compare [Infographic]

http://www.popsci.com/article/science/how-mountains-our-solar-system-compare-infographic?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=57d8cc6e04d3015afb57fbff&utm_medium=&utm_source=

Update: Congressional Briefing Panel: Humans to Mars: Why, How, and When

<http://us7.campaign-archive1.com/?u=db83c35bebf68040dcf49943b&id=fc46ed604e&e=1310e0e934>

Protection of cultural heritage in armed conflict - Interview with Kristin Hausler

<https://phap.org/thematic-notes/2016/07/protection-cultural-heritage-armed-conflict-interview-kristin-hausler>

The Nabataeans of Ancient Arabia

<http://etc.ancient.eu/interviews/nabataeans-ancient-arabia/>