

**Weekly Science Report
June 2, 2017**

“In the face of evil, we must summon our capacity for good. In the face of hate, we must love. In the face of cruelty, we must live with empathy and compassion. We must never be bystanders to injustice or indifferent to suffering.”

President Barack Obama

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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

We're on the brink of mass extinction—but there's still time to pull back

<https://phys.org/news/2017-05-brink-mass-extinctionbut.html>

Domesticated rice dated back 9,400 years in China

<https://phys.org/news/2017-05-domesticated-rice-dated-years-china.html>

Volcanic 'geoengineering' may have caused a climate catastrophe that killed most animal species

<https://phys.org/news/2017-05-volcanic-geoengineering-climate-catastrophe-animal.html>

Huaca Prieta Provides More Proof of What Indians Already Knew

<https://indiancountrymedianetwork.com/history/traditional-societies/huaca-prieta-provides-proof-indians-already-knew/>

Collagen from a Tyrannosaurus rex bone proves Jurassic Park will never exist

<https://phys.org/news/2017-06-collagen-tyrannosaurus-rex-bone-jurassic.html>

Malta's Hypogeum, One of the World's Best Preserved Prehistoric Sites, Reopens to the Public

<http://www.smithsonianmag.com/travel/maltas-hypogeum-one-worlds-best-preserved-prehistoric-sites-reopens-public-180963397/#PSQM8DZpqXI5xDeQ.99>

Tunnel diggers stumble upon surprise find: ancient giant sloth

<http://www.cbsnews.com/news/ancient-giant-sloth-discovered-by-tunnel-diggers/>

New research reveals earliest directly dated rock paintings from southern Africa

https://www.eurekalert.org/pub_releases/2017-06/uotw-nrr060117.php

Paleobiologists make intriguing new discoveries about dinosaurs' ancestors

https://www.eurekalert.org/pub_releases/2017-05/kfu-pmi053117.php

Groundwater 'pit stops' enabled survival and migration of our ancient ancestors

https://www.eurekalert.org/pub_releases/2017-05/cu-gs052617.php

Life on terra firma began with an invasion

<https://phys.org/news/2017-06-life-terra-firma-began-invasion.html>

Mystery solved: Scientists reconstruct 10,300-year-old bison hunt

<http://www.kansas.com/news/local/article153093719.html>

Neuroarchaeology used to investigate early stone tool production

<http://www.pasthorizonspr.com/index.php/archives/05/2017/neuroarchaeology-used-to-investigate-early-stone-tool-production>

History

Meet the 19-year-old racing to preserve the stories of WWII veterans

<http://www.scp.org/programs/take-two/2017/05/25/56996/meet-the-19-year-old-racing-to-preserve-the-storie/>

Battle for the Aleutians: WWII's Forgotten Alaskan Campaign

http://www.history.com/news/battle-for-the-aleutians-wwiis-forgotten-alaskan-campaign?cmpid=FACEBOOK_FBPAGE_20170602&linkId=38306398

The Jews of Warsaw Buried the Truth So It Would Survive Them

<https://medium.com/@HolocaustMuseum/the-jews-of-warsaw-buried-the-truth-so-it-would-survive-them-84a46b47f385?sf84543831=1>

Videotapes Are Becoming Unwatchable As Archivists Work To Save Them

http://www.npr.org/sections/alltechconsidered/2017/06/03/529155865/videotapes-are-becoming-unwatchable-as-archivists-work-to-save-them?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170603

When an Unplayable Record Preserves a Long-Lost Language

https://creators.vice.com/en_us/article/long-lost-record-preserves-dead-alaskan-language

Bill Calls for Congressional Gold Medal for Chinese-American WWII Vets

<http://www.nbcnews.com/news/asian-america/bill-calls-congressional-gold-medal-chinese-american-wwii-vets-n757951>

General de Gaulle: France's noble, exasperating icon

<http://www.economist.com/node/16374536?fsrc=scn/fb/te/bl/ed/>

Ex-Auschwitz guard Reinhold Hanning, 95, dies year after being convicted

<https://www.usatoday.com/story/news/world/2017/06/01/former-auschwitz-guard-reinhold-hanning-95-dies-year-after-being-convicted-nazi-germany-ss/102376508/>

Why It's So Hard to Find the Original Owners of Nazi-Looted Art

<http://www.smithsonianmag.com/arts-culture/why-its-so-hard-find-real-owners-nazi-looted-art-180963513/>

Edith Wharton Recruited the World's Greatest Artists to Raise Money for WWI Refugees

<http://www.smithsonianmag.com/arts-culture/edith-wharton-recruited-worlds-greatest-artists-raise-money-wwi-refugees-180963493/>

After the Battle

<http://www.archaeology.org/issues/255-1705/features/5465-scotland-dunbar-battle>

The Blackener's Cave

<http://www.archaeology.org/issues/255-1705/features/5468-iceland-surtshellir-viking-cave>

Jerusalem dig sheds light on 2,000-year-old eating habits of local Jews

<http://www.jpost.com/Israel-News/Jerusalem-excavation-reveals-diet-of-ancient-Israelites-during-Second-Temple-period-494148>

Indian origins pinpointed using genetic evidence from current populace

<http://www.pasthorizonspr.com/index.php/archives/05/2017/indian-origins-pinpointed-using-genetic-evidence-from-current-populace>

Archaeology

Samples from Haryana excavation site to be sent for carbon dating

<http://indianexpress.com/article/india/samples-from-haryana-excavation-site-to-be-sent-for-carbon-dating/>

"Space archaeology" transforms how ancient sites are discovered

http://www.cbsnews.com/news/space-archaeology-transforms-how-ancient-sites-are-discovered/?utm_content=bufferabee1&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

Venice world heritage status under threat

<https://www.theguardian.com/travel/2017/may/26/venice-tourists-cruise-ships-pollution-italy-biennale>

Prominent Art Family Entangled in ISIS Antiquities-Looting Investigations

<https://www.wsj.com/articles/prominent-art-family-entangled-in-investigations-of-looted-antiquities-1496246740?mod=e2tw>

Why was a teenager with bone cancer buried on Witch Hill in Panama?

https://www.eurekalert.org/pub_releases/2017-06/stri-wwa060117.php

This Interactive Map Visualizes "At Risk" Archaeological Sites In The Mediterranean World

<https://www.forbes.com/sites/drsarahbond/2017/06/02/this-interactive-map-visualizes-at-risk-archaeological-sites-in-the-mediterranean-world/#79bed6c3362b>

Laser technology uncovers 1,600-year-old Christian frescoes in Rome's biggest catacomb

<http://www.telegraph.co.uk/news/2017/05/30/laser-technology-uncovers-1600-year-old-christian-frescoes-romes/>

Significant finds from underwater excavation on Delos island in Greece

<http://www.tornosnews.gr/en/greek-news/culture/25532-significant-finds-from-underwater-excavation-at-delos-island-in-greece.html>

Ceramic Heads of Possible Goddesses Discovered in Ancient Waste Dump

<http://www.livescience.com/59294-ceramic-heads-discovered-ancient-waste-dump.html>

Egyptology

The first genome data from ancient Egyptian mummies

<https://phys.org/news/2017-05-genome-ancient-egyptian-mummies.html>

Lost Egyptian Artifact Found in Michigan

<http://www.archaeology.org/news/5600-170602-egyptian-stele-faience>

Documentation work begins

<http://weekly.ahram.org.eg/News/20616.aspx>

Ten Late Period tombs uncovered in Aswan

<http://english.ahram.org.eg/NewsContent/9/40/269999/Heritage/Ancient-Egypt/Ten-Late-Period-tombs-uncovered-in-Aswan.aspx>

General Science

Researcher's 'miracle material' discovery could end cracked smart devices

<https://phys.org/news/2017-06-miracle-material-discovery-smart-devices.html>

'Instantly rechargeable' battery could change the future of electric and hybrid automobiles

<https://techxplore.com/news/2017-06-instantly-rechargeable-battery-future-electric.html>

Physics, Earth and Space Sciences

Researchers uncover new gravitational wave characteristics

<https://phys.org/news/2017-05-uncover-gravitational-characteristics.html>

Citizen scientists uncover a cold new world near sun

<https://phys.org/news/2017-06-citizen-scientists-uncover-cold-world.html>

UM researchers find new way to measure hurricanes: 'gravity waves'

<http://www.miamiherald.com/news/weather/hurricane/article150882007.html>

Paul Allen's built the World's largest plane to fling satellites into space

https://www.wired.com/2017/06/paul-allen-built-worlds-largest-plane-fling-satellites-space/?mbid=nl_6217_p2&CNDID=41291302

Physicists find another gravitational wave to suggest Einstein was right

https://www.wired.com/2017/06/physicists-find-another-gravitational-wave-prove-einstein-right/?mbid=nl_6217_p3&CNDID=41291302

Bigelow Aerospace founder says commercial world will lead in space

<http://www.cbsnews.com/news/bigelow-aerospace-founder-says-commercial-world-will-lead-in-space/>

NASA to Make Announcement About First Mission to Touch Sun

<https://www.nasa.gov/press-release/nasa-to-make-announcement-about-first-mission-to-touch-sun>

Do stars fall quietly into black holes, or crash into something utterly unknown?

<https://phys.org/news/2017-05-stars-fall-quietly-black-holes.html>

30 pages of calculations settle a 30-year debate over a mysterious new phase of matter

<https://phys.org/news/2017-05-pages-year-debate-mysterious-phase.html>

The world's most powerful X-ray laser beam creates 'molecular black hole'

<https://phys.org/news/2017-05-world-powerful-x-ray-laser-molecular.html>

A new twist on uranium's origin story, by CSU scientists

<https://phys.org/news/2017-06-uranium-story-csu-scientists.html>

UNESCO global ocean science report, first stock taking of global ocean science

<http://en.unesco.org/news/unesco-global-ocean-science-report-first-stock-taking-global-ocean-science>

NASA's GPS-Like Deep Space Navigation Experiment Set to Launch on SpaceX Rocket

<https://www.seeker.com/space/nasas-gps-like-deep-space-navigation-experiment-set-to-launch-on-spacex-rocket>

SpaceX blasts off cargo using recycled spaceship

<https://phys.org/news/2017-06-spacex-blasts-cargo-recycled-spaceship.html>

Environment, Climate Change and Alternative Energy Sources

A Farm Journalist Tells Farmers What They'd Rather Not Hear About Climate Change

http://www.npr.org/sections/thesalt/2017/06/02/531223294/a-farm-journalist-tells-farmers-what-theyd-rather-not-hear-about-climate-change?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170602

Trump misunderstood MIT climate research, university officials say

http://www.reuters.com/article/us-usa-climatechange-trump-mit-idUSKBN18S6L0?utm_campaign=trueAnthem%3A+Trending+Content&utm_content=5930abb104d30123a0683425&utm_medium=trueAnthem&utm_source=facebook

Why Climate Skeptics Are Wrong

https://www.scientificamerican.com/article/why-climate-skeptics-are-wrong/?WT.mc_id=SA_FB_ENGYSUS_OSNP

Wind Project in Wyoming Envisions Coal Miners as Trainees

<https://www.nytimes.com/2017/05/21/business/energy-environment/wind-turbine-job-training-wyoming.html?r=2&mtrref=www.globalcitizen.org>

Global Warming Gas Can Now Be Extracted from Air and Resold

<http://www.livescience.com/59308-facility-captures-carbon-dioxide-from-atmosphere.html>

Crack in Antarctic ice shelf could create one of the biggest icebergs in history

<http://www.cbsnews.com/news/antarctic-ice-shelf-biggest-iceberg-in-history/>

Chemical 'dance' of cobalt catalysis could pave way to solar fuels

<https://phys.org/news/2017-06-chemical-cobalt-catalysis-pave-solar.html>

Plasmonics could bring sustainable society, desalination tech

<https://phys.org/news/2017-06-plasmonics-sustainable-society-desalination-tech.html>

Scientists directly observe light-to-energy transfer in new solar cell materials

<https://phys.org/news/2017-06-scientists-light-to-energy-solar-cell-materials.html>

Biological, Genetics and Medical Sciences

Researchers discover first human antibodies that work against all ebolaviruses

<https://medicalxpress.com/news/2017-05-human-antibodies-ebolaviruses.html>

Here's the visual proof of why vaccines do more good than harm

<http://www.sciencemag.org/news/2017/04/heres-visual-proof-why-vaccines-do-more-good-harm>

NIH scientists try to crack the brain's memory codes

<https://www.nih.gov/news-events/news-releases/nih-scientists-try-crack-brains-memory-codes>

Resurrected: A Controversial Trial to Bring the Dead Back to Life

https://www.scientificamerican.com/article/resurrected-a-controversial-trial-to-bring-the-dead-back-to-life/?WT.mc_id=SA_FB_HLTH_NEWS

The lionfish zapper hits the open seas

http://www.pbs.org/newshour/updates/lionfish-zapper-hits-open-seas/?utm_source=facebook&utm_medium=pbsofficial&utm_campaign=newshour

Living fossil challenges thinking on brain evolution

<https://phys.org/news/2017-05-fossil-brain-evolution.html>

Human tests suggest young blood cuts cancer and Alzheimer's risk

https://www.newscientist.com/article/2133311-human-tests-suggest-young-blood-cuts-cancer-and-alzheimers-risk/?cmpid=SOC|NSNS|2017-Echobox&utm_campaign=Echobox&utm_medium=Social&utm_source=Facebook#link_time=1496319524

Treatment extends life for some with advanced prostate cancer

<https://medicalxpress.com/news/2017-06-treatment-life-advanced-prostate-cancer.html>

Gene therapy could 'turn off' severe allergies

<https://medicalxpress.com/news/2017-06-gene-therapy-severe-allergies.html>

Other

Some of us are complicit in racism

<http://www.cnn.com/2017/05/29/opinions/letter-religious-leaders-opinion-held/index.html>

5 women scholars in Islam you should know

<https://www.mysalaam.com/en/story/5-women-scholars-in-islam-you-should-know/SALAAM01062017084609>

Sci-Fi Authors Are Banding Together to Write Roadmaps for Our Future

https://motherboard.vice.com/en_us/article/sci-fi-authors-are-banding-together-to-write-roadmaps-for-our-future

In Public Understanding Of Science, Alternative Facts Are The Norm

http://www.npr.org/sections/13.7/2017/05/29/527892222/in-public-understanding-of-science-alternative-facts-are-the-norm?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170529

Aerospace Executive 'Absolutely Convinced' There Are Aliens On Earth

http://www.huffingtonpost.com/entry/robert-bigelow-ufos-aliens-on-earth_us_592ca03ce4b0065b20b7bfb7?ncid=edlinkushpmg00000313

Invisibilia: A Man Discovers The Terrible Emotion Locked In A Word

http://www.npr.org/sections/health-shots/2017/06/01/529876861/an-anthropologist-discovers-the-terrible-emotion-locked-in-a-word?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170601

Additional Informational

John Anthony West Crowdfund Campaign

<https://fundly.com/john-anthony-west-project>

Lucy Jones: scientists need to create “scientifically-defensible” stories

<https://blogs.agu.org/sciencecommunication/2017/05/24/lucy-jones-scientists-need-create-scientifically-defensible-stories/>

The last Muslim King in Spain

<http://www.heritagedaily.com/2017/05/the-last-muslim-king-in-spain/114961>

Space Agencies on Asteroid Day LIVE

<https://blog.asteroidday.org/2017/06/02/space-agencies-asteroid-day-broadcast/>

Trump Uses Executive Power to Shirk Responsibility on Climate Change

<https://www.npca.org/articles/1507-trump-uses-executive-power-to-shirk-responsibility-on-climate-change#sm.00001ps3gghpm5d2lysy5o4iaq4a6>