

Weekly Science Report

July 10, 2015

“You must be the change you want to see in the world.”

Mahatma Gandhi

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Introduction

I created this publication with the support of Graham Hancock and John Anthony West to share news and information on various disciplines to include paleontology, space sciences, genetics and archaeology. My goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. Since the beginning of the internet age we have always heard of the world being drawn together but through my investigations I've never found a publication like the Weekly Science Report. This publication is my contribution to bring people together and share ideas and discoveries with my 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

Ancient Fish Evolved Gills to Survive Acidic Oceans

http://news.discovery.com/animals/ancient-fish-evolved-gills-to-survive-acidic-oceans-150706.htm?utm_medium=referral&utm_source=pulsenews#mkcpgn=rssnws1

Democracy May Have Predated Ancient Greece

<http://www.newhistorian.com/democracy-may-have-predated-ancient-greece/4193/>

Anzick Child Casts Doubt on Bering Strait Theory

<http://indiancountrytodaymedianetwork.com/2014/03/11/dna-politics-anzick-child-casts-doubt-bering-strait-theory-153947>

Checking DNA Against Elephants Hints At How Mammoths Got Woolly

<http://www.npr.org/2015/07/02/419248169/checking-dna-against-elephants-hints-at-how-mammoths-got-woolly?sc=tw>

'Proof' of Little-Known Mass Extinction Found

<http://news.yahoo.com/proof-little-known-mass-extinction-found-110353871.html>

Bankrolling A Dinosaur Dig And Unearthing A Giant: The Giganotosaurus

http://www.npr.org/2015/06/14/414286692/bankrolling-a-dinosaur-dig-and-unearthing-a-giant-the-giganotosaurus?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=npnews&utm_content=20150614

Researchers suggest new twist in Darwin's theory of evolution

<http://www.abc.net.au/news/2015-07-09/researchers-challenge-darwins-theory-of-evolution/6607706>

History

Design Competition Launched for National World War I Memorial

http://www.history.com/news/design-competition-launched-for-national-world-war-i-memorial?cmpid=Social_FBPAGE_HISTORY_20150706_203609083&linkId=15295120

One Photographer's Personal Endeavor to Track Down Survivors of the Armenian Genocide, 100 Years Later

http://www.smithsonianmag.com/history/one-photographer-personal-endeavor-track-down-survivors-armenian-genocide-100-years-later-180955763/?utm_source=facebook.com&no-ist

At WWII victory parade, Taiwan's Nationalists tout role fighting Japan

<http://www.latimes.com/world/asia/la-fg-taiwan-japan-war-anniversary-201507-story.html>

Germany seeks 3 1/2 years' jail for 'Bookkeeper of Auschwitz'

<http://www.businessinsider.com/afp-germany-seeks-3-1/2-years-jail-for-bookkeeper-of-auschwitz-2015-7>

Pope says families need a miracle, hints at 'scandalous' changes for the church

<http://www.cnn.com/2015/07/06/world/pope-ecuador-scandalous/index.html>

Mecca, thronged by pilgrims, builds to accommodate more worshippers

http://www.csmonitor.com/World/Global-News/2015/0707/Mecca-thronged-by-pilgrims-builds-to-accommodate-more-worshippers?utm_medium=referral&utm_source=pulsenews

Amelia Earhart Expedition Returns With No Immediate Answers

http://news.discovery.com/adventure/amelia-earhart-expedition-returns-with-no-immediate-answers-150707.htm?utm_medium=referral&utm_source=pulsenews#mkcpgn=rssnws1

Twenty years on, Srebrenica survivor remembers hours in hell

<http://news.yahoo.com/twenty-years-srebrenica-survivor-remembers-hours-hell-044309430.html>

Bosnian Serb leader says Srebrenica genocide is a 'lie'

<http://news.yahoo.com/bosnian-serb-leader-says-srebrenica-genocide-lie-191425555.html>

Jenny Horne: How a descendant of the president of the Confederacy helped vanquish his flag

http://www.washingtonpost.com/news/morning-mix/wp/2015/07/09/south-carolina-rep-jenny-horne-on-her-historic-and-surprisingly-personal-speech-it-needed-to-be-done/?tid=sm_fb

Quran in focus: the earliest known fragment

<http://www.thenational.ae/world/quran-in-focus-the-earliest-known-fragment>

How small genetic change in Yersinia pestis changed human history

<http://phys.org/news/2015-06-small-genetic-yersinia-pestis-human.html>

What If America Had Lost the Revolutionary War?

<http://www.theatlantic.com/international/archive/2014/07/what-if-america-had-lost-the-revolutionary-war/373964/>

One of the last grim scenes of the Civil War was caught on camera

http://www.washingtonpost.com/local/four-people-were-hanged-for-lincolns-assassination--and-it-was-caught-on-camera/2015/07/03/377614d4-1905-11e5-ab92-c75ae6ab94b5_story.html?tid=sm_fb

History buffs re-enact Holy Land crusader battle

<http://news.yahoo.com/ap-photos-history-buffs-enact-holy-land-crusader-190246817.html>

Marking 70 years since Second Sino-Japanese War

http://www.bbc.com/news/world-asia-china-33420751?OCID=fbasia&ocid=socialflow_facebook

How my family recovered a painting stolen by the Nazis and sold it for \$2.9 million

<http://finance.yahoo.com/news/how-my-family-recovered-a-painting-stolen-by-the-nazis-and-sold-it-for--2-9-million-143903895.html>

Inside the nuclear bunker where America preserves its movie history

<http://www.wired.com/2015/07/film-preservation/>

Archaeology

Unesco: Kathmandu's monuments not in danger

<http://directionkathmandu.com/information/unesco-kathmandus-monuments-not-in-danger/>

The Alamo is now a World Heritage site

http://www.foxnews.com/travel/2015/07/06/alamo-is-now-world-heritage-site/?cmpid=app_pulse&utm_medium=referral&utm_source=pulsenews

Watch This Drone Explore Underground Tunnels Beneath London

http://www.popsci.com/watch-drone-explore-underground-tunnels?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

Looted in Syria – and sold in London: the British antiques shops dealing in artefacts smuggled by Isis

http://www.theguardian.com/world/2015/jul/03/antiquities-looted-by-isis-end-up-in-london-shops?CMP=fb_gu

Mass Grave Reveals Ottoman Soldiers Fought To The Death In 16th Century Romania

http://www.forbes.com/sites/kristinakillgrove/2015/07/05/mass-grave-reveals-ottoman-soldiers-fought-to-the-death-in-16th-century-romania/?utm_medium=referral&utm_source=pulsenews

UNESCO's Irina Bokova Laments ISIS' 'Cultural Cleansing' of Antiquities

http://www.nbcnews.com/storyline/isis-terror/unesco-boss-irina-bokova-laments-isis-cultural-cleansing-antiquities-n386291?cid=sm_fc

Here are the new UNESCO World Heritage Sites for 2015

<http://roadwarriorvoices.com/2015/07/07/here-are-the-new-unesco-world-heritage-sites-for-2015/>

Iron Age warrior lived with arrowhead in spine

http://www.foxnews.com/science/2015/07/01/iron-age-warrior-lived-with-arrowhead-in-spine/?cmpid=app_pulse&utm_medium=referral&utm_source=pulsenews

The fight to preserve Gaza's archaeological heritage

<http://www.scidev.net/global/conflict/multimedia/preserve-gaza--archaeological-heritage.html>

Treasures From Spanish Galleon Sunk in 1622 Set For Auction

<http://www.history.com/news/treasures-from-spanish-galleon-sunk-in-1652-set-for-auction>

Iraq celebrates return of antiquities, appeals for world help

<http://www.channelnewsasia.com/news/world/iraq-celebrates-return-of/1970610.html>

New Smithsonian chief takes the grand tour

http://www.washingtonpost.com/entertainment/museums/new-smithsonian-chief-takes-the-grand-tour/2015/07/08/b55d2b26-25a3-11e5-aae2-6c4f59b050aa_story.html?hpid=z15

Egyptology

Nothing to report

General Science

Microsoft is offering research grants to work with HoloLens

<http://www.theverge.com/2015/7/6/8901289/hololens-research-grants-microsoft>

With Tiny Smartphone Spectrometers, Everybody Can Be A Chemist

http://www.popsoci.com/spectrometers-made-your-smartphone-camera?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

ORNL develops HVAC system that cuts costs

<http://www.wbir.com/story/news/2015/07/03/ornl-develops-hvac-system-that-cuts-costs/29285857/>

Elon Musk-backed Group Awards Millions in Grants to Keep Us Safe from AI

http://www.nbcnews.com/tech/innovation/elon-musk-backed-group-awards-millions-grants-keep-us-safe-n385456?cid=par-pulse-tech_20150701&utm_medium=referral&utm_source=pulsenews

The dawn of artificial intelligence

<http://www.economist.com/news/leaders/21650543-powerful-computers-will-reshape-humanitys-future-how-ensure-promise-outweighs?fsrc=scn/fb/te/pe/ed/thedawnofartificialintelligence>

Meet six inspiring innovators and their award-winning work

<http://www.one.org/us/2015/07/07/meet-six-inspiring-innovators-and-their-award-winning-work/?source=fb>

Where are the books? Libraries under fire as they shift from print to digital

http://www.washingtonpost.com/local/where-are-the-books-libraries-under-fire-as-they-shift-from-print-to-digital/2015/07/07/eb265752-1525-11e5-9518-f9e0a8959f32_story.html?tid=sm_fb

How the audacious Pentagon agency that invented the Internet is now trying to save it

<https://www.washingtonpost.com/blogs/the-switch/wp/2015/07/08/how-the-audacious-pentagon-agency-that-invented-the-internet-is-now-trying-to-save-it/?hpid=z17>

Physics, Earth and Space Sciences

Possible Signs of Alien Life on Comet: Philae Lander Detects Promising Features on Comet 67P

<http://abcnews.go.com/Technology/signs-alien-life-comet-philae-lander-detects-promising/story?id=32248300>

Astro-photographer captures space station crossing moon

<http://www.abc.net.au/local/photos/2015/07/02/4266055.htm>

Astronomy group proposes hi-def space telescope for spotting Earth-like planets

<http://www.theverge.com/2015/7/6/8901179/astronomer-group-proposes-hi-def-space-telescope-for-spotting-earth>

Sol Man: John Grant is on a road trip across Mars

http://smithsonianscience.si.edu/2015/07/sol-man-john-grant-is-on-a-road-trip-across-mars/?utm_medium=referral&utm_source=pulsenews

NASA Is Testing A Drone For Mars

http://www.popsci.com/nasa-has-mars-plane-concept?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

Saturn's Core Might Be Cloaked in a Neon Shield

http://www.scientificamerican.com/article/saturn-s-core-might-be-cloaked-in-a-neon-shield/?utm_source=pulsenews&utm_medium=referral&utm_campaign=Feed%3A+ScientificAmerican-News+%28Content%3A+News%29

Dilma To Houston, Brazil Aims To Relaunch Space Program With US Boost

http://www.worldcrunch.com/rss/tech-science/dilma-to-houston-brazil-aims-to-relaunch-space-program-with-us-boost/missile-saddam-hussein-vls-rockets-dilma-rousseff-space-program/c4s19203/?utm_medium=referral&utm_source=pulsenews#.VZvIcWdOUdU

Event Horizon Telescope Will Probe Spacetime's Mysteries

http://news.discovery.com/space/astronomy/event-horizon-telescope-will-probe-spacetimes-mysteries-150702.htm?utm_medium=referral&utm_source=pulsenews#mkcpgn=rssnws1

Reaching Pluto, and the End of an Era of Planetary Exploration

http://www.nytimes.com/2015/07/07/science/space/reaching-pluto-and-the-end-of-an-era-of-planetary-exploration.html?_r=0

NASA mission chases Pluto's shadow to catch details of its atmosphere

<http://phys.org/news/2015-07-nasa-mission-pluto-shadow-atmosphere.html>

NASA Selects Astronauts for First U.S. Commercial Space Flights

<http://blogs.nasa.gov/bolden/2015/07/09/nasa-selects-astronauts-for-first-u-s-commercial-space-flights/>

NASA's Dawn Probe Is in a Holding Pattern at Ceres After Glitch

http://www.nbcnews.com/science/space/nasas-dawn-probe-holding-pattern-ceres-after-glitch-n389716?cid=sm_fb

Dwarf planet Ceres offers big surprises for scientists

<http://phys.org/news/2015-07-dwarf-planet-ceres-big-scientists.html>

From Satellite Swarms to Interstellar Submarines, NASA Selects Leading-Edge Technology Concepts for Continued Study

<http://www.nasa.gov/press-release/from-satellite-swarms-to-interstellar-submarines-nasa-selects-leading-edge-technology>

Mount Spock? New Horizons' Pluto Name List Will Please 'Star Trek' Fans

http://www.nbcnews.com/science/space/mount-spock-new-horizons-pluto-name-list-includes-star-trek-n388091?cid=sm_fb

NASA Is Seriously Considering Terraforming Part of the Moon With Robots

<http://www.popsci.com/nasa-advances-lunar-terraforming-concept-phase-ii?src=SOC&dom=fb>

Rare system of five stars discovered

http://www.bbc.com/news/science-environment-33428506?ocid=socialflow_facebook

Student Experiment Will Count Cosmic Particles Around Pluto

http://news.discovery.com/space/targeting-pluto-dust-counter-will-count-cosmic-particles-150708.htm?utm_medium=referral&utm_source=pulsenews#mkcpgn=rssnws1

NASA Could Soon Launch A Giant Solar Sail Beyond Our Solar System

http://www.popsci.com/nasas-plan-sail-past-out-our-solar-system?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

Dozens of new craters suspected in northern Russia

<http://siberiantimes.com/science/casestudy/news/n0127-dozens-of-mysterious-new-craters-suspected-in-northern-russia/#.VaJvwhLO1ZU.facebook>

Environment, Climate Change and Alternative Energy Sources

A welcome dose of environmental optimism

http://www.newscientist.com/article/mg22730280.500-a-welcome-dose-of-environmental-optimism.html?utm_source=NSNS&utm_medium=SOC&utm_campaign=hoot&cmpid=SOC%257CNSNS%257C2015-GLOBAL-hoot#.VZqckmdOUdU

Amazon's Wildlife Threatened By Hydropower Dams, Study Says

<http://news.nationalgeographic.com/energy/2015/07/150701-hydropower-dam-threatens-amazon-wildlife/>

NASA Photos Show China's Plan to Meet New UN Climate Pledge

<http://news.nationalgeographic.com/energy/2015/06/150630-NASA-photos-show-China-solar-growth-climate-pledge/>

Bird mystery: Thousands disappear and abandon eggs, nests on island off Florida's Gulf Coast

http://www.foxnews.com/science/2015/07/07/bird-mystery-thousands-disappear-and-abandon-eggs-nests-on-island-off-florida/?cmpid=app_pulse&utm_medium=referral&utm_source=pulsenews

For The First Time, Waves Are Adding Power To The U.S. Grid

http://www.popsci.com/waves-are-adding-power-grid-hawaii?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

U.S. firm sues Canada for \$10.5 billion over water

<http://www.cbc.ca/news/canada/u-s-firm-sues-canada-for-10-5-billion-over-water-1.180821>

Solar-Powered Plane Lands in Hawaii After Flight from Japan

http://www.nbcnews.com/tech/tech-news/solar-powered-plane-lands-hawaii-after-flight-japan-n386396?cid=sm_fb

Retreating sea ice linked to changes in ocean circulation, could affect European climate

<http://phys.org/news/2015-06-retreating-sea-ice-linked-ocean.html>

What happens to a coral reef when an island is built on top?

https://www.washingtonpost.com/national/health-science/what-happens-to-a-coral-reef-when-an-island-is-built-on-top/2015/07/06/d409493c-168b-11e5-9518-f9e0a8959f32_story.html?tid=sm_fb

Large volcanic eruptions were responsible for cold temperature extremes recorded since early Roman times

<http://phys.org/news/2015-07-large-volcanic-eruptions-responsible-cold.html>

Biological, Genetics and Medical Sciences

Genetically Modified Mosquitos Massively Reduce Dengue Fever Risk

http://www.popsci.com/genetically-modified-mosquito-knocks-out-dengue-brazilian-neighborhood?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

What's the future of polar bears? Studies say they may soon be extinct

http://www.csmonitor.com/Environment/2015/0705/What-s-the-future-of-polar-bears-Studies-say-they-may-soon-be-extinct?utm_medium=referral&utm_source=pulsenews

Bacteria 'Fight Club' Could Help Find New Cures For Diseases

http://www.popsci.com/researchers-create-bacteria-fight-club-find-new-disease-cures?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

Laser Breathalyzer Can Sniff Out Disease

http://www.popsci.com/laser-breathalyzer-can-sniff-out-disease?con&dom=pulse&src=syndication&utm_medium=referral&utm_source=pulsenews

Dying Amazon healers are taking potential cures for cancer, AIDS and other diseases with them

<http://www.globalpost.com/article/6597619/2015/06/29/dying-amazon-healers-are-taking-potential-cures-cancer-aids-and-other>

Dolphin Brain Scan Reveals Surprising Similarity to Bats

http://www.nbcnews.com/science/science-news/dolphin-brain-scan-n388181?cid=sm_fb

Single-celled predator evolves tiny, human-like 'eye'

<http://phys.org/news/2015-07-single-celled-predator-evolves-tiny-human-like.html>

Other

Could black phosphorus be the next silicon?

<http://phys.org/news/2015-07-black-phosphorus-silicon.html>

Researchers build molecules using a laser beam

<http://phys.org/news/2015-07-molecules-laser.html>

Computer 'Brain' Could Unravel Life's Biggest Mysteries

http://news.discovery.com/tech/gear-and-gadgets/computer-brain-could-unravel-lifes-biggest-mysteries-150707.htm?utm_medium=referral&utm_source=pulsenews#mkcpqn=rssnws1

Scientists: Earth Endangered by New Strain of Fact-Resistant Humans

<http://www.newyorker.com/humor/borowitz-report/scientists-earth-endangered-by-new-strain-of-fact-resistant-humans>

Additional Informational

Kathmandu Valley World Heritage Site: Integrated Plan of Action

<http://un.info.np/Net/NeoDocs/View/1424>

Last chance to see: 25 magnificent and endangered structures

<http://www.cnn.com/2015/06/30/architecture/gallery/beautiful-buildings-verge-of-destruction/index.html>

TIME, A Year in Space

<http://time.com/space-nasa-scott-kelly-mission/?iid=space070815>

Raoul Wallenberg and the Rescue of Jews in Budapest

http://www.ushmm.org/wlc/en/article.php?ModuleId=10005211&WT.mc_id=10375&utm_content=sf10465759&utm_medium=spredfast&utm_source=facebook&utm_campaign=US+Holocaust+Memorial+Museum&sf10465759=1

Infographic: How we'll live on Mars

<http://ideas.ted.com/infographic-how-well-live-on-mars/>

Ten Dinosaurs You Never Read About Growing Up

http://www.forbes.com/pictures/gkie45gee/pinocchio-rex-gianzhousa/?utm_medium=referral&utm_source=pulsenews

Constellations & Ancient Civilizations Documentary Full HD

<https://www.youtube.com/watch?v=i4x7wa2OxRE>

US Dept. of Energy Blog, Capturing the Motion of the Ocean: Wave Energy Explained

<http://energy.gov/articles/capturing-motion-ocean-wave-energy-explained>