

**Weekly Science Report
December 2, 2016**

“Human kindness has never weakened the stamina or softened the fiber of a free people. A nation does not have to be cruel to be tough.”

Franklin D. Roosevelt

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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

Pregnant T. Rex Found, May Contain DNA

<http://www.seeker.com/pregnant-t-rex-found-may-contain-dna-1771065249.html>

'Slam-dunk' find puts hunter-gatherers in Florida 14,500 years ago

<https://www.sciencenews.org/article/hunter-gatherers-florida-14500-years-ago>

3.7 Billion Year Old Fossils Found in Greenland Bring Us Closer to Life's Origin

<https://futurism.com/3-7-billion-year-old-fossils-found-in-greenland-bring-us-closer-to-lifes-origin/>

History

Poor maintenance threatens Edinburgh World Heritage status

<http://www.bbc.com/news/uk-scotland-edinburgh-east-fife-38106203?platform=hootsuite>

Holocaust jacket from Dachau found in Long Island tag sale

<http://www.cbsnews.com/news/holocaust-jacket-dachau-long-island-tag-sale/?ftag=CNM-00-10aab6a&linkId=31450573&ftag=CNM-00-10aab6a&linkId=31603331>

Holocaust survivor pleads with Austrian voters: Don't let far right win

<http://www.cnn.com/2016/11/30/europe/austria-election-holocaust-survivor-plea/index.html?sr=fbcnni113016austria-election-holocaust-survivor-plea0920PMStoryLink&linkId=31760894>

Japan's attack on Pearl Harbor still intrigues 75 years later

<http://www.staradvertiser.com/2016/11/30/hawaii-news/prologue-japans-attack-on-pearl-harbor-still-intrigues-75-years-later/?HSA=193b38d4e46a99bab93b8f43a4f644674c2ec4f4>

Italy's Last Bastion of Catalan Language Struggles to Keep It Alive

http://www.nytimes.com/2016/11/21/world/europe/catalan-italy-alghero.html?_r=2

American priest killed in Guatemala put on path to possible sainthood by Pope Francis

<http://latino.foxnews.com/latino/lifestyle/2016/12/02/american-priest-killed-in-guatemala-put-on-path-to-possible-sainthood-by-pope/>

A History of Vandalism: Welcome to Ukraine's Historic Holocaust Site

http://www.huffingtonpost.com/nikolas-kozloff/a-history-of-vandalism-we_b_13402898.html

A 1,000 year old promise of peace

<http://www.bbc.com/travel/story/20161121-a-1000-year-old-promise-of-peace?platform=hootsuite>

The Tragic, Forgotten History of Black Military Veterans

http://www.newyorker.com/news/news-desk/the-tragic-forgotten-history-of-black-military-veterans?mbid=social_facebook

Former Auschwitz guard's conviction on 300,000 accessory to murder charges upheld

<http://www.orlandosentinel.com/news/nationworld/>

#DefineAboriginal: Pauline Hanson's 'no definition to Aboriginal' comment sparks sharing of racism stories

http://www.abc.net.au/news/2016-11-29/pauline-hanson's-comment-sparks-defineaboriginal-racism-stories/8075468?WT.tsrc=Facebook_Organic

Modern-day Monuments Men wanted by the British Army

<http://theartnewspaper.com/news/news/modern-day-monuments-men-wanted-by-the-british-army/>

France Restitutes Flemish Portrait to Descendants of German-Jewish Couple

<https://news.artnet.com/art-world/france-restitution-flemish-portrait-765716>

After Pearl Harbor, this mail plane had a new mission: Find the attackers

https://www.washingtonpost.com/local/after-pearl-harbor-this-mail-plane-had-a-new-mission-find-the-attackers/2016/12/01/34216070-a1f5-11e6-a44d-cc2898cfab06_story.html?%3Ftid=sm_fb&utm_term=.aad191cca18b

Stolen Nazi concentration camp gate believed found in Norway

<https://www.yahoo.com/news/stolen-nazi-concentration-camp-gate-believed-found-norway-160919723.html>

Archaeology

Skeleton Offers Clue to Amelia Earhart's Fate

<http://www.seeker.com/skeleton-could-be-amelia-earhart-died-as-a-castaway-2074592765.html>

A portal to a subterranean realm

<http://www.bbc.com/travel/story/20161121-a-portal-to-a-subterranean-realm?platform=hootsuite>

Preserving excavated sites a big challenge, say archaeologists

<http://timesofindia.indiatimes.com/city/bengaluru/Preserving-excavated-sites-a-big-challenge-say-archaeologists/articleshow/55608258.cms?platform=hootsuite>

Montreal museum confirms location of city's first European settlement

<https://www.sootoday.com/national-news/montreal-museum-confirms-location-of-citys-first-european-settlement-473116>

Cissbury Fort 'damaged by metal detectors'

<http://www.bbc.com/news/uk-england-sussex-38101813?platform=hootsuite>

Ancient stolen artefact repatriated

<http://cyprus-mail.com/2016/11/24/ancient-stolen-artefact-repatriated/?platform=hootsuite>

Macon has always considered it a national treasure; now it will become official

<http://www.macon.com/news/local/article117903533.html>

Safeguarding Our Cultural Past from Future Climate Change: Stories from Jamestown

<https://www.usgs.gov/news/safeguarding-our-cultural-past-future-climate-change-stories-jamestown>

Is the destruction of cultural property a war crime?

<http://www.apollo-magazine.com/is-the-destruction-of-cultural-property-a-war-crime/>

Ancient mound used for defense hints at walled city in Japan

<http://www.asahi.com/ajw/articles/AJ201611290062.html>

Mexico archaeologists find temple to wind god beneath supermarket

<https://www.theguardian.com/world/2016/nov/30/mexico-temple-wind-god-archaeology-supermarket>

Ancient Thai city is protected but still crumbling

<http://www.star2.com/living/living-environment/2016/11/29/ancient-thai-city-is-protected-but-still-crumbling/>

Nobel laureates urge action to protect heritage sites

<http://www.france24.com/en/20161201-nobel-laureates-urge-action-protect-heritage-sites>

Fort Lewis College students vandalize Native American ruins in Utah

<http://www.the-journal.com/article/20161129/NEWS01/161129864/FLC-students-vandalize-Native-American-ruins-in-Utah?platform=hootsuite>

Rare glimpse of unprecedented Auschwitz restoration

<http://www.sbs.com.au/news/article/2016/12/02/rare-glimpse-unprecedented-auschwitz-restoration>

Egyptology

Egypt unearths 7,000-year-old lost city

<https://www.theguardian.com/science/2016/nov/23/egypt-unearths-lost-city-first-dynasty-sohag-province>

Secretary Kerry Signs Cultural Property Protection Agreement With Egypt

<http://ht.ly/MAFL306Fmdr>

General Science

Chinese Soldiers Have Laser Guns

http://www.popsoci.com/chinese-soldiers-have-laser-guns?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=583b2757f6d7a100076ad354&utm_medium=&utm_source=

This drone gun knocks drones out of the sky gently, with radio waves

<http://www.popsoci.com/drone-gun-downs-drones-with-radio-waves?src=SOC&dom=fb>

3-D printing future unfolds at lab

http://www.goldenstatenewspapers.com/tracy_press/news/d-printing-future-unfolds-at-lab/article_ebaa7ab4-b7f9-11e6-ac9d-fb06554f2232.html#.WEGXEESZxVU.twitter

Physics, Earth and Space Sciences

This pioneering astronaut blazed a trail for women engineers to follow

https://mic.com/articles/158134/this-pioneering-astronaut-blazed-a-trail-for-women-engineers-to-follow?utm_source=policymicFB&utm_medium=brandedContent&utm_campaign=USAF-Q416#.rchcQHfDH

Let's Colonize Titan

https://blogs.scientificamerican.com/guest-blog/lets-colonize-titan/?WT.mc_id=SA_FB_SPC_BLOG

Take A Look At The Infinity Machine

http://www.popsci.com/infinity-machine?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=58397367a167da00072f70b7&utm_medium=&utm_source=

Have We Found The Fifth Force Of Nature?!

http://www.seeker.com/have-we-found-the-fifth-force-of-nature-1994218388.html?utm_campaign=socialflow&utm_source=facebook&utm_medium=dnewsocial

Scientists say time travel is possible

<http://www.aol.com/article/news/2016/11/28/scientists-say-time-travel-is-possible/21615723/?ncid=txtlnkusaolp00001357>

SpaceX wants to surround Earth with an internet service that's 200 times faster

<http://www.sciencealert.com/spacex-wants-to-cover-the-globe-with-an-internet-service-200-times-faster-than-average>

6,000 years ago, the Sahara desert was tropical—what happened?

<http://phys.org/news/2016-12-years-sahara-tropicalwhat.html#iCp>

Too much space travel is hazardous for your eyeballs

https://www.washingtonpost.com/news/speaking-of-science/wp/2016/11/29/too-much-space-travel-is-hazardous-for-your-eyeballs/?tid=sm_fb&utm_term=.4a11073521e1

Physics may be a small but crucial fraction of our reality

https://www.newscientist.com/article/2114398-physics-may-be-a-small-but-crucial-fraction-of-our-reality/?utm_medium=Social&utm_campaign=Echobox&utm_source=Facebook&utm_term=Autofeed&cmpid=SOC%7cSNS%7c2016-Echobox#link_time=1480771503

The Plan To Get To Mars In Three Days Explained

http://www.seeker.com/the-plan-to-get-to-mars-in-three-days-explained-1678576307.html?utm_campaign=socialflow&utm_source=facebook&utm_medium=dnewsocial

US military prepares for the next frontier: Space war

<http://edition.cnn.com/2016/11/28/politics/space-war-us-military-preparations/index.html?sr=fbcn112816space-war-us-military-preparations1131PM/ODtopLink&linkId=31639000>

Teenage girls have built Africa's first-ever private satellite

<http://www.sciencealert.com/14-awesome-teenage-girls-have-built-africa-s-first-ever-private-satellite>

Why this undergrad could save us from a comet apocalypse

<http://www.blastr.com/2016-11-28/why-college-undergrad-could-save-us-apocalypse>

First signs of weird quantum property of empty space?

<http://phys.org/news/2016-11-weird-quantum-property-space.html>

'Ailing' Buzz Aldrin, the second man to walk on the moon, is safely evacuated from the South Pole

https://www.washingtonpost.com/news/morning-mix/wp/2016/12/01/ailing-buzz-aldrin-second-man-on-the-moon-is-being-medically-evacuated-from-the-south-pole/?tid=sm_fb&utm_term=.032f2d4856d2

Forget Mars. Why we should colonize Saturn's moon Titan instead

http://www.blastr.com/2016-12-1/forget-mars-why-we-should-colonize-saturns-moon-titan-instead?_source=Blastr_True_Anthem_Blastr_Facebook&utm_campaign=trueAnthem:+Trending+Content&utm_content=5840e3b304d30132987c789b&utm_medium=trueAnthem&utm_source=facebook

Nations OK European Space Agency's Mission to Mars in 2020

<http://abcnews.go.com/Technology/wireStory/nations-european-space-agencys-mission-mars-2020-43928727?yptr=yahoo>

Environment, Climate Change and Alternative Energy Sources

Why Morocco is leading the charge against climate change

<http://edition.cnn.com/2016/11/17/africa/morocco-green-energy/index.html?sr=cnnifb>

Captain Cook's detailed 1778 records confirm global warming today in the Arctic

<http://phys.org/news/2016-11-captain-cook-global-today-arctic.html>

Science in America's National Parks

<http://discovermagazine.com/2016/april/10-americas-outdoor-laboratory>

Will Salt Water Quench the World's Thirst?

https://www.scientificamerican.com/article/will-salt-water-quench-the-world-s-thirst/?WT.mc_id=SA_FB_CHEM_NEWS

Is Earth Becoming a Less Habitable Planet?

https://blogs.scientificamerican.com/life-unbounded/is-earth-becoming-a-less-habitable-planet/?WT.mc_id=SA_FB_SPC_BLOG

They're called the Black Mambas, and they're a poachers worst nightmare

<http://edition.cnn.com/2015/12/21/africa/black-mamba-anti-poaching-rhinos-south-africa/index.html?sr=cnnifb>

As warming seas menace fish, communities seek ways to stay afloat

<http://news.trust.org/item/20161125090402-u92xa/>

Watery mission: SpaceX and NASA join forces on 2021 monitoring project

http://www.preventionweb.net/news/view/51096?&a=email&utm_source=pw_email

Can this university save bluefin tuna from extinction?

<http://money.cnn.com/2016/11/30/technology/kindai-bluefin-tuna-farming/index.html?sr=twCNN120116kindai-bluefin-tuna-farming0402AMVODtopLink&linkId=31775486>

Perovskite solar cells hit new world efficiency record

<https://techxplore.com/news/2016-12-perovskite-solar-cells-world-efficiency.html>

Island Now Runs Entirely on Solar Power

http://www.natgeoexplorer.com/article/island-now-runs-entirely-solar-power/?utm_source=Facebook&utm_campaign=link_fbch20161203EXPLblogsolar&utm_medium=Social&utm_content=EXPLORER&sf44324790=1

New Video Game Simulates the Global Sustainability Challenge

<http://www.yaleclimateconnections.org/2016/11/new-video-game-simulates-the-global-sustainability-challenge/>

Cold Fusion Lives On, with Experiments Creating Energy When None Should Exist

https://www.scientificamerican.com/article/cold-fusion-lives-on-with-experiments-creating-energy-when-none-should-exist/?WT.mc_id=SA_FB_CHEM_NEWS

Portable river turbine could trigger a 'riverlution' in clean energy

<http://www.digitaltrends.com/home/portable-river-turbine/>

How much coral has died in the Great Barrier Reef's worst bleaching event?

<https://theconversation.com/how-much-coral-has-died-in-the-great-barrier-reefs-worst-bleaching-event->

[69494?utm_medium=email&utm_campaign=Latest%20from%20The%20Conversation%20for%20November%2029%202016%20-%206180&utm_content=Latest%20from%20The%20Conversation%20for%20November%2029%202016%20-%206180+CID_ee1d65709a6f690e40175f445a1d6bb1&utm_source=campaign_monitor&utm_term=How%20much%20coral%20has%20died%20in%20the%20Great%20Barrier%20Reefs%20worst%20bleaching%20event](https://www.foxnews.com/story/69494?utm_medium=email&utm_campaign=Latest%20from%20The%20Conversation%20for%20November%2029%202016%20-%206180&utm_content=Latest%20from%20The%20Conversation%20for%20November%2029%202016%20-%206180+CID_ee1d65709a6f690e40175f445a1d6bb1&utm_source=campaign_monitor&utm_term=How%20much%20coral%20has%20died%20in%20the%20Great%20Barrier%20Reefs%20worst%20bleaching%20event)

Cuba's Underwater Paradise Could Be a Model for Sustainable Tourism

https://blogs.scientificamerican.com/guest-blog/cuba-s-underwater-paradise-could-be-a-model-for-sustainable-tourism/?WT.mc_id=SA_FB_ENGYBUS_OSNP

Pope Francis: "Never been such a clear need for science" to protect the planet

https://www.washingtonpost.com/news/energy-environment/wp/2016/11/29/pope-francis-urges-world-leaders-not-to-delay-climate-change-efforts/?tid=sm_fb&utm_term=.59f367f00410

Brexit puts Europe's nuclear fusion future in doubt

https://www.newscientist.com/article/2114690-brexit-puts-europes-nuclear-fusion-future-in-doubt/?utm_medium=Social&utm_campaign=Echobox&utm_source=Facebook&utm_term=Autofeed&cmpid=SOC%7cNSNS%7c2016-Echobox

A Forgotten Step in Saving African Wildlife: Protecting the Rangers

<http://www.nytimes.com/2016/11/28/science/a-forgotten-step-in-saving-african-wildlife-protecting-the-rangers.html?smid=fb-nytimes&smtyp=cur&r=0&mtrref=l.facebook.com&gwh=B41F1E4F07B7903FD91258A49D456553&gwt=pay>

How a 70-Year Old Idea could make engines more efficient

https://www.wired.com/2016/12/70-year-old-idea-make-engines-way-efficient/?mbid=nl_12116_p3&CNDID=41291302

Biological, Genetics and Medical Sciences

Zuckerberg: By 2100 We Will Have Cured Most All Diseases

<https://futurism.com/zuckerberg-by-2100-we-will-have-cured-most-all-diseases/>

Bacteria Have 'Biological Wheels' That We Can Finally See In 3D

http://www.popsci.com/3d-view-biological-wheels-that-let-bacteria-move?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=583a9ab6f6d7a10007fa4e9b&utm_medium=&utm_source=

The Editor of Life's Building Blocks

http://time.com/4518815/feng-zhang-next-generation-leaders/?xid=time_socialflow_facebook

Researchers aim for first human eye transplant within the decade

http://www.pbs.org/newshour/rundown/researchers-human-eye-transplant-decade/?utm_source=facebook&utm_medium=pbsofficial&utm_campaign=newshour

The app lending eyes to the blind

<http://www.cnn.com/2016/11/24/africa/be-specular-app-helps-the-blind/index.html>

Future of Combat Medicine: Powdered Blood, Spray Bottle Skin

<http://kitup.military.com/2016/11/future-combat-medicine-powdered-blood-spray-bottle-skin.html?platform=hootsuite>

Bionic Suit Helps A Paralyzed Man Take Thousands Of Steps

http://www.popsci.com/bionic-suit-helps-paralyzed-man-voluntarily-take-thousands-steps?con=TrueAnthem&dom=fb&src=SOC&utm_campaign=&utm_content=583d0576a167da00064cca38&utm_medium=&utm_source=

New Vaccine Could Be 'Final Nail in the Coffin for HIV'

http://www.nbcnews.com/feature/nbc-out/new-vaccine-could-be-final-nail-coffin-hiv-n689051?cid=sm_fb

The Neuroscientist who's building a better memory for Humans

https://www.wired.com/2016/12/neuroscientist-whos-building-better-memory-humans/?mbid=nl_12116_p1&CNDID=41291302

Other

The non-western books that every student should read

https://www.theguardian.com/education/2016/nov/26/the-non-western-books-that-every-student-should-read?CMP=fb_gu

America: This Is Your Future

<http://www.politico.com/agenda/story/2016/11/political-future-of-america-generations-diversity-tensions-000235>

Additional Informational

Why Do People Still Deny Climate Change Video

http://www.seeker.com/why-do-people-still-deny-climate-change-1792728393.html?utm_campaign=socialflow&utm_source=facebook&utm_medium=dnewsocial

TED Talk, Making sense of string theory

http://www.ted.com/talks/brian_green_e_on_string_theory?utm_campaign=&utm_medium=referral&utm_source=facebook.com&utm_content=talk&utm_term=science

TED Talk, Your kids might live on Mars. Here's how they'll survive

http://www.ted.com/talks/stephen_petranek_your_kids_might_live_on_mars_here_s_how_they_ll_survive

TED Talk, Hunting for Peru's lost civilizations -- with satellites

http://www.ted.com/talks/sarah_parcak_hunting_for_peru_s_lost_civilizations_with_satellites?utm_campaign=social&utm_medium=referral&utm_source=t.co&utm_content=talk&utm_term=science

Assessment of Moderate- and High-Temperature Geothermal Resources of the United States

<http://pubs.usgs.gov/fs/2008/3082/>

The Administration's Report on the Future of Artificial Intelligence

<https://www.whitehouse.gov/blog/2016/10/12/administrations-report-future-artificial-intelligence>

The 4 essential facts about Islam you really need to know

<https://mic.com/articles/160910/the-4-essential-facts-about-islam-you-really-need-to-know#.eRFnr3Gm7>

U.S. Holocaust Memorial Museum, Belfer National Conference for Educators, July 2017

<https://www.ushmm.org/educators/professional-events-and-resources/belfer-educators-conference?sf43133742=1>

National Geographic Digital Correspondent Contest

http://www.assignmentexplorer.com/?utm_source=Facebook&utm_campaign=link_fbch20161115_EXPLassignmentexplorer&utm_medium=Social&utm_content=EXPLORER&sf44264239=1

Simulations of directed energy comet deflection

<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=2555766>

Heroes of Pearl Harbor: George Welch and Kenneth Taylor

<http://www.history.com/news/heroes-of-pearl-harbor-george-welch-and-kenneth-taylor>

'Wanderers' Is A Fantastic Vision Of Humanity's Interplanetary Future

<http://www.popsoci.com/sci-fi-short-wanderers-will-inspire-you-explore-solar-system>

U.S. Holocaust Memorial Museum Impact of your Support

https://engage.ushmm.org/s-gt-thank-you-2016.html?utm_term=ALC1612EY3BS&mkt_tok=eyJpIjoiTIRFd1kyTTJNV1I6TW1FMCIInQiOiJyUDJ3Vko5U2RVSUNCZk5Z2g3YzNxS1B2OGJ6TktWSkhQWHZockdBRktySUIrWThPU2ZKWnInT09ROXVuM0R1XC9VK1Y0amFMaTR4RTU5Z2R0MzNMODRrbTVcL1wwMVplazlzTFNvTmFROUxuOD0ifQ%3D%3D