

**Weekly Science Report
September 29, 2017**

**“Differences are not intended to separate, to alienate. We are different
precisely in order to realize our need of one another.”**

Archbishop Desmond Tutu

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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

Turkey's 12,000-year-old Hasankeyf settlement faces obliteration

<https://www.theguardian.com/world/2017/aug/29/turkeys-12000-year-old-hasankeyf-citadel-faces-obliteration?platform=hootsuite>

Fossil footprints challenge established theories of human evolution

<https://phys.org/news/2017-08-fossil-footprints-theories-human-evolution.html>

Cave Explorers Find New Fossils of Mysterious Human Relative

http://news.nationalgeographic.com/2017/09/ancient-humans-homo-naledi-lee-berger-paleontology-science/?utm_source=fb&utm_medium=social&utm_term=content&utm_content=link_ngcfb20170921newbones&sf115241797=1

Morocco opens an investigation into the selling of dinosaur fossils on the Internet

<https://english.alarabiya.net/en/variety/2017/09/06/Morocco-opens-an-investigation-into-the-selling-of-dinosaur-fossils-on-the-Internet.html?platform=hootsuite>

History

Centuries-Old Stolen Copy of Christopher Columbus Letter Recovered in U.S.

<https://www.wsj.com/articles/centuries-old-stolen-copy-of-christopher-columbus-letter-recovered-in-u-s-1503596048>

Trump's chilling contempt for future generations

https://www.washingtonpost.com/opinions/trumps-chilling-contempt-for-future-generations/2017/08/25/baf58b86-89bb-11e7-961d-2f373b3977ee_story.html?utm_term=.e026656ddec1

Unearthing Hickam's 14 'unknowns'

<http://www.staradvertiser.com/2017/08/28/hawaii-news/unearthing-hickams-14-unknowns/?HSA=1821c1cab1a0be76c65dfeac65574b44c5c5d2d7>

Scientists find languages not used since Dark Ages among ancient manuscripts recovered from monastery

<http://www.independent.co.uk/news/world/middle-east/lost-languages-found-ancient-manuscript-parchment-saint-catherine-monastery-sinai-peninsula-egypt-a7916346.html>

Public vs private art collections: who controls our cultural heritage?

<http://theconversation.com/public-vs-private-art-collections-who-controls-our-cultural-heritage-80594>

Wadada Leo Smith's Defiant And Fearless Elegy For Emmett Till (In 360° VR)

http://www.npr.org/2017/08/28/546019369/wadada-leo-smiths-defiant-and-fearless-elegy-for-emmett-till-in-360-vr?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170828

Why America Needs a Slavery Museum

https://www.theatlantic.com/video/index/402172/the-only-american-museum-about-slavery/?utm_source=FB_ATL_P_402172_1

Courageous WWII Spy Jeannie Rousseau Has Died at 98

http://www.smithsonianmag.com/smart-news/wwii-spy-jeannie-rousseau-has-died-98-180964677/?utm_source=facebook.com&utm_medium=socialmedia

British Museum plans sweeping redisplay of world cultures

<http://theartnewspaper.com/news/british-museum-plans-sweeping-redisplay-of-world-cultures>

Winemaking History: 5,000-Year-Old Wine Found In Italy

<http://www.ibtimes.com/winemaking-history-5000-year-old-wine-found-italy-2582453>

New evidence of Viking warrior women might not be what it seems

<https://arstechnica.com/science/2017/09/have-we-finally-found-hard-evidence-for-viking-warrior-women/>

History of zero pushed back 500 years by ancient Indian text

<https://www.newscientist.com/article/2147450-history-of-zero-pushed-back-500-years-by-ancient-indian-text/#.WbyiRpg9rHc.facebook>

Massachusetts executed two Italian immigrants 90 years ago: Why the global fallout still matters

<https://theconversation.com/massachusetts-executed-two-italian-immigrants-90-years-ago-why-the-global-fallout-still-matters-82416>

How the Islamic world can reclaim its role in science

<http://www.scidev.net/global/capacity-building/opinion/how-the-islamic-world-can-reclaim-its-role-in-science.html>

Stanislav Petrov, Soviet Officer Who Helped Avert Nuclear War, Is Dead at 77

<https://www.nytimes.com/2017/09/18/world/europe/stanislav-petrov-nuclear-war-dead.html?smid=tw-share>

How The CIA Found A Soviet Sub — Without The Soviets Knowing

http://www.npr.org/sections/parallels/2017/09/18/549535352/how-the-cia-found-a-soviet-sub-without-the-soviets-knowing?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170918

Ken Burns And Lynn Novick On 'The Vietnam War'

<http://www.npr.org/2017/09/17/551604269/ken-burns-and-lynn-novick-on-the-vietnam-war>

UK's restitution powers to be extended indefinitely for Nazi-era loot

<http://theartnewspaper.com/news/uk's-spoliation-powers-to-be-extended-indefinitely-for-nazi-era-loot>

From the KKK to Darfur, Reflecting on Evil as a Deliberate Act

<https://hyperallergic.com/397781/from-the-kkk-to-darfur-reflecting-on-evil-as-a-deliberate-act/>

OCD Art Thief Accused of Amassing an 'Aladdin's Cave' of Stolen Works in France—and Carefully Labeling Each One

https://news.artnet.com/art-world/french-art-thief-aladdin-cave-wonders-1032884?utm_content=from_&utm_source=Sailthru&utm_medium=email&utm_campaign=Europe+July+25&utm_term=New+Euro+%2B+Newsletter+List

US museums challenge Trump's immigration ban in court

<http://theartnewspaper.com/news/us-museums-help-challenge-trump's-immigration-ban-in-court>

Can you solve this new Amelia Earhart mystery?

<https://www.usatoday.com/story/news/nation-now/2017/09/26/can-you-solve-new-amelia-earhart-mystery/706254001/>

The Greeks really do have near-mythical origins, ancient DNA reveals

http://www.sciencemag.org/news/2017/08/greeks-really-do-have-near-mythical-origins-ancient-dna-reveals?utm_content=buffera689d&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

Archaeology

The 9 Most Spectacular Lost Cities in the World

<http://time.com/3684054/lost-cities/>

After the Hobby Lobby scandal, a spotlight on antiquities sales in Israel

<https://www.usatoday.com/story/news/world/2017/08/16/after-hobby-lobby-scandal-spotlight-antiquities-sales-israel/573894001/?platform=hootsuite>

How we lost the Seven Wonders of the Ancient World

<http://www.salon.com/2017/08/20/how-we-lost-the-seven-wonders-of-the-ancient-world/>

Historic Equipment Burns At Yosemite Mt. Sugar Pine Railroad

<http://sierranewsonline.com/historic-equipment-burns-at-yosemite-mt-sugar-pine-railroad/>

Underwater ruins of lost Roman city discovered in Tunisia

<http://www.independent.co.uk/news/world/middle-east/roman-city-discovered-underwater-ruins-tunisia-tsunami-neapolis-nabuel-cathage-a7924181.html>

Rare Roman mosaic found during Berkshire community project

https://www.theguardian.com/uk-news/2017/sep/02/rare-roman-mosaic-found-berkshire-archaeology-project-boxford?CMP=share_btn_fb

Castle of the Sealand kings: Discovering ancient Iraq's rebel rulers

https://www.theguardian.com/science/2017/sep/01/castle-sealand-kings-ancient-iraqs-rebel-rulers?CMP=share_btn_fb

Canoe Found After Hurricane Irma Eyed As Piece Of Florida History

http://www.huffingtonpost.com/entry/canoe-hurricane-irma-historical-artifact_us_59be70a6e4b02da0e1429d17?utm_campaign=hp_fb_pages&utm_source=main_fb&utm_medium=facebook&ncid=fcblnkushpmg00000063

German WW1 U-boat found off Belgian coast

<http://www.bbc.com/news/world-europe-41318195>

Exceptionally Preserved Ancient Ships Discovered in the Black Sea

<http://www.smithsonianmag.com/smart-news/another-fleet-ancient-ships-discovered-black-sea-180964978/#3jGDKpOdEw4vjfrH.01>

Ancient British stone circles were used for 'Neolithic parties', study finds

<http://www.independent.co.uk/news/uk/home-news/orkney-stone-circles-neolithic-parties-study-a7957846.html>

City archaeologist recalls 27 years of unearthing St. Augustine's hidden treasures

<http://staugustine.com/news/local-news/2017-09-25/digging-history-city-archaeologist-recalls-27-years-unearthing-st>

Archaeologists Don't Always Need to Dig—They've Got Drones

https://www.wired.com/story/archaeologists-dont-always-need-to-digtheyve-got-drones?mbid=nl_092217_daily&CNDID=%%CUST_ID%%

House "older than Stonehenge" found in East Ayrshire field

<http://www.scotsman.com/news/house-older-than-stonehenge-found-in-east-ayrshire-field-1-4566488>

Alexander's the Great lost 2,000 year old city found by drones

<http://nypost.com/2017/09/25/alexander-the-greats-lost-2000-year-old-city-found-by-drones/>

Egyptology

4,300-Year-Old Statue Head Depicts Mystery Pharaoh

<https://www.livescience.com/60270-ancient-statue-head-depicts-mystery-pharaoh.html>

Sphinx, Baboon and Cat Statues Found in Ancient Egyptian Burial

<https://www.livescience.com/60484-egyptian-statues-found-in-pit.html>

Egypt's Great Pyramid: The New Evidence

<http://www.channel4.com/programmes/egypts-great-pyramid-the-new-evidence>

Fatwa allowing illegal antiquities excavation triggers ire in Egypt

<http://ht.ly/mkfQ30fpOio>

Two toes of King Psamtik I statue excavated in Matariya

<http://www.egyptindependent.com/two-toes-king-psamtik-statue-excavated-matariya/>

General Science

Raising Wages to Help Workers Could Actually Help Robots Replace Them

https://www.wired.com/story/raising-wages-to-help-workers-could-actually-help-robots-replace-them?mbid=nl_091517_daily&CNDID=%%CUST_ID%%

Boeing Planes Could Fire Lasers From Their Noses to Spot Turbulence

https://www.wired.com/story/boeing-jaxa-turbulence-lidar-laser?mbid=nl_091517_daily&CNDID=%%CUST_ID%%

U.N. aviation agency to call for global drone registry

<http://www.reuters.com/article/us-aviation-drones/u-n-aviation-agency-to-call-for-global-drone-registry-idUSKCN1BJ2CL>

Apple's 'Neural Engine' Infuses the iPhone With AI Smarts

https://www.wired.com/story/apples-neural-engine-infuses-the-iphone-with-ai-smarts?mbid=nl_091317_daily&CNDID=%%CUST_ID%%

4 U.S. Mega-Regions Advance in Hyperloop Competition

<https://nextcity.org/daily/entry/hyperloop-location-city-winners-competition>

Intel's New Chip Design Takes Pointers From Your Brain

https://www.wired.com/story/intels-new-chip-design-takes-pointers-from-your-brain?mbid=nl_092517_daily&CNDID=%%CUST_ID%%

Physics, Earth and Space Sciences

The Universe Needs You: To Help in the Hunt for Planet 9

<http://www.smithsonianmag.com/science-nature/using-internet-democratize-hunt-distant-worlds-180964639/#stxdbU8HrUiXILYy.01>

NASA Unveils Its First Spaceplane Since The Shuttle

<https://www.yahoo.com/news/nasa-unveils-first-spaceplane-since-123902750.html>

Chris Hadfield: We should live on the moon before a trip to Mars

<https://www.newscientist.com/article/2144864-chris-hadfield-we-should-live-on-the-moon-before-a-trip-to-mars/>

Black hole models contradicted by hands-on tests at Sandia's Z machine

https://share-ng.sandia.gov/news/resources/news_releases/black_hole/#.Waa2QrKGNQK

Scientists Detect Mysterious Radio Signals From Deep Space

http://www.huffingtonpost.com/entry/deep-space-radio-bursts_us_59a7bbcbe4b07e81d35530b7?utm_campaign=hp_fb_pages&utm_source=main_fb&utm_medium=facebook&ncid=fcbkInkushpmg00000063

Trump's 'America First' Policies Won't Work in Space

<https://www.wired.com/story/trumps-america-first-policies-wont-work-in-space/>

NASA Statement on Nomination for Agency Administrator

<https://www.nasa.gov/press-release/nasa-statement-on-nomination-for-agency-administrator>

Physicists Want to Rebuild Quantum Theory From Scratch

https://www.wired.com/story/physicists-want-to-rebuild-quantum-theory-from-scratch?mbid=nl_090217_daily&CNDID=%%CUST_ID%%

Watch Live as NASA's Cassini Finally Faces Its Fiery Doom

https://www.wired.com/story/nasas-cassini-saturn-mission-finally-faces-its-fiery-doom?mbid=nl_091517_daily&CNDID=%%CUST_ID%%

Trump picks NASA chief, NOAA second-in-command

<http://www.sciencemag.org/news/2017/09/breaking-trump-picks-nasa-chief-noaa-second-command>

Massive sunspots and huge solar flares mean unexpected space weather for Earth

<https://theconversation.com/massive-sunspots-and-huge-solar-flares-mean-unexpected-space-weather-for-earth-83677>

NASA Preparing Call for Proposals for Commercial Lunar Landers

<https://www.space.com/38107-nasa-proposals-for-commercial-lunar-landers.html>

Seeds in space – how well can they survive harsh, non-Earth conditions?

<https://theconversation.com/seeds-in-space-how-well-can-they-survive-harsh-non-earth-conditions-81803>

Hubble discovers a unique type of object in the Solar System

<https://phys.org/news/2017-09-hubble-unique-solar.html>

Something Completely Bizarre Is Currently Flying Through Our Solar System

https://www.yahoo.com/news/something-completely-bizarre-currently-flying-160216708.html?utm_content=buffer8ad17&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

NASA'S OSIRIS-REx Spacecraft Slingshots Past Earth

<https://www.nasa.gov/feature/goddard/2017/osiris-rex-spacecraft-slingshots-past-earth>

Hurricane Damages Giant Radio Telescope—Why It Matters

<http://news.nationalgeographic.com/2017/09/arecibo-radio-telescope-damaged-puerto-rico-hurricane-maria-science/>

Grave of Europe's 1st Moon Orbiter Finally Found

<https://www.space.com/38279-europe-first-moon-orbiter-grave-found.html>

Elon Musk's Mars Colonization Plan Now Includes Intercity Rocket Travel

https://www.wired.com/story/musks-new-mars-plan?mbid=nl_092917_daily&CNDID=%%CUST_ID%%

Zealandia drilling reveals secrets of sunken lost continent

<https://www.theguardian.com/world/2017/sep/27/zealandia-drilling-reveals-secrets-of-sunken-lost-continent>

NASA Designed This Low-Tech Rover to Survive Venus

https://www.wired.com/story/nasa-low-tech-rover?mbid=nl_092517_daily&CNDID=%%CUST_ID%%

Environment, Climate Change and Alternative Energy Sources

Flexible Batteries May Soon Be Printed Right On Your Clothes

<http://www.smithsonianmag.com/innovation/flexible-batteries-may-soon-be-printed-right-your-clothes-180964683/#B93YpddO8m8bwpDa.01>

Navajo solar plant breaks new ground

http://azdailysun.com/news/local/navajo-solar-plant-breaks-new-ground/article_fdfc63da-6a33-5fbb-bfe9-7d174a31700f.html

Thorium could power the next generation of nuclear reactors

https://www.newscientist.com/article/2145535-thorium-could-power-the-next-generation-of-nuclear-reactors/?cmpid=SOC|NSNS|2017-Echobox&utm_campaign=Echobox&utm_medium=Social&utm_source=Facebook#link_time=1504001909

Draft U.S. National Climate Assessment Confirms Fundamental Truths of Climate Change

<http://www.wri.org/blog/2017/08/draft-us-national-climate-assessment-confirms-fundamental-truths-climate-change?sthash.wkKYaysC.mjjo>

White House says no change in position on Paris climate agreement

<https://www.usatoday.com/story/news/politics/2017/09/16/reports-trump-administration-may-not-pull-out-paris-climate-agreement/673988001/>

How solar power can protect the US military from threats to the electric grid

<https://theconversation.com/how-solar-power-can-protect-the-us-military-from-threats-to-the-electric-grid-83698>

Ambitious 1.5C Paris climate target is still possible, new analysis shows

https://www.theguardian.com/environment/2017/sep/18/ambitious-15c-paris-climate-target-is-still-possible-new-analysis-shows?CMP=tw_t_gu

It's a small world after all, say scientists warning of sand scarcity

<https://www.csmonitor.com/Environment/2017/0914/It-s-a-small-world-after-all-say-scientists-warning-of-sand-scarcity?cmpid=TW>

Antarctic ice is melting so fast the whole continent may be at risk by 2100

<https://www.theguardian.com/environment/2015/oct/12/antarctic-ice-melting-so-fast-whole-continent-may-be-at-risk-by-2100>

Biological, Genetics and Medical Sciences

Researchers on Kauai encounter new whale-dolphin hybrid

<http://www.kitv.com/story/36185895/researchers-on-kauai-encounter-new-whale-dolphin-hybrid>

What it takes to be a Human Echo chamber

https://www.wired.com/2017/08/takes-expert-human-echolocator?mbid=nl_083117_daily&CNDID=%%CUST_ID%%

23andMe Is Digging Through Your Data for a Parkinson's Cure

https://www.wired.com/story/23andme-is-digging-through-your-data-for-a-parkinsons-cure?mbid=nl_091317_daily&CNDID=%%CUST_ID%%

Evolutionary geneticists spot natural selection happening now in people

<https://theconversation.com/evolutionary-geneticists-spot-natural-selection-happening-now-in-people-83621>

A Wild Bison Was Spotted in Germany for the First Time in Two Centuries. Then It Was Shot

<http://www.smithsonianmag.com/smart-news/first-wild-bison-spotted-two-centuries-germany-shot-180964986/#KvqvSASY8M6Ty2vX.01>

The Post-Antibiotic Era Is Here. Now What?

https://www.wired.com/story/the-post-antibiotic-era-is-here-now-what?mbid=nl_092517_daily&CNDID=%%CUST_ID%%

Other

Hundreds Of Christian Leaders Denounce Anti-LGBTQ 'Nashville Statement'

http://www.huffingtonpost.com/entry/hundreds-of-christian-leaders-release-lgbtq-affirming-response-to-nashville-statement-us_59a71bcee4b0a8d14572cf35?utm_campaign=hp_fb_pages&utm_source=main_fb&utm_medium=facebook&ncid=fbklnkushpmg00000063

The Growing Threat of Fake News

http://www.conferenceboard.ca/topics/security-safety/commentaries/17-08-14/the_growing_threat_of_fake_news.aspx?utm_source=twitter&utm_medium=social&utm_campaign=kbtweet

The world as we know it is about to end — again — if you believe this biblical doomsday claim

<http://www.msn.com/en-us/news/us/the-world-as-we-know-it-is-about-to-end-%E2%80%94-again-%E2%80%94-if-you-believe-this-biblical-doomsday-claim/ar-AA561J?ocid=ob-fb-enus-580>

Additional Informational

Brand New Spin On John Lennon's Classic Is Putting Tears In Everyone's Eyes

https://www.apost.com/en/blog/brand-new-spin-on-john-lennons-classic-is-putting-tears-in-everyones-eyes/1802/?debug=false&utm_source=fb&utm_medium=fb_1503815046562182_apost_en&utm_term=USA_en&utm_campaign=blog_1802&utm_content=72&vt=1503862639&sl=10

A resurgent exploration of the moon's surface

<https://www.washingtonpost.com/apps/g/page/national/a-resurgent-exploration-of-the-moons-surface/771/>

Jewish Legacy Rediscovered in Wake of Nazis and Communists

<https://medium.com/@HolocaustMuseum/surprise-youre-jewish-f141d5ecf633?sf115840524=1>

Mexico City Was Built on an Ancient Lake Bed. That Makes Earthquakes Much Worse.

<https://www.nytimes.com/interactive/2017/09/22/world/americas/mexico-city-earthquake-lake-bed-geology.html>

Endangered Heritage: Emergency Evacuation of Heritage Collections

<http://unesdoc.unesco.org/images/0024/002466/246684E.pdf>

Humanity's cultural history captured in 5-minute film

<http://www.nature.com/news/humanity-s-cultural-history-captured-in-5-minute-film-1.15650>

The origins of metallurgy in China

<https://www.cambridge.org/core/journals/antiquity/article/origins-of-metallurgy-in-china/69E7A6EE63F38C7D5B2B0612E48DE264>