

**Weekly Science Report
July 29, 2016**

“If we start now and make the effort, we can make the world a more peaceful place. We have to try. The human population is growing and climate change is having its effect. Violence breaks out because our destructive emotions run out of control. Human rights violations, for example, are related to anger and a lack of respect. We can counter these tendencies by cultivating warm-heartedness and concern for others.”

Dalai Lama

Table of Contents

Introduction	2
News Articles	3
Paleontology, Evolution and Prehistoric Studies	3
History	4
Archaeology	6
Egyptology.....	8
General Science.....	9
Physics, Earth and Space Sciences	10
Environment, Climate Change and Alternative Energy Sources	11
Biological, Genetics and Medical Sciences	12
Other.....	13
Additional Informational	14

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

New fossil evidence supports theory that first mass extinction engineered by early animals
<http://phys.org/news/2016-07-fossil-evidence-theory-mass-extinction.html>

Mystery ancient human ancestor found in Australasian family tree
<https://www.newscientist.com/article/2098566-mystery-ancient-human-ancestor-found-in-australasian-family-tree/>

Universal ancestor of all life on Earth was only half alive
<https://www.newscientist.com/article/2098564-universal-ancestor-of-all-life-on-earth-was-only-half-alive/>

Cancer on a Paleo-diet? Ask someone who lived 1.7 million years ago
<http://phys.org/news/2016-07-cancer-paleo-diet-million-years.html>

There's No Controversy: Let's Stop Failing Our Children on Evolution
http://www.npr.org/sections/13.7/2016/07/28/487737404/there-s-no-controversy-lets-stop-failing-our-children-on-evolution?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20160728

DNA analyses reveal genetic identities of world's first farmers
http://www.eurekalert.org/pub_releases/2016-07/hms-dar072516.php

Archaeologists Study Sustainable Oyster Harvesting
<http://www.archaeology.org/news/4686-160729-chesapeake-bay-oysters>

8,000-year-old cave paintings found in Turkey's Balıkesir
<http://www.hurriyetdailynews.com/Default.aspx?pageID=238&nid=102139&NewsCatID=375>

Ancient underwater city at risk
<http://www.ekathimerini.com/210812/article/ekathimerini/life/ancient-underwater-city-at-risk>

Patchy oxygen in ocean may have stalled evolution
<http://www.futurity.org/evolution-oxygen-oceans-1212232-2/>

Archaeologists uncover earliest farming activity recorded in Scotland so far
<http://www.pasthorizonspr.com/index.php/archives/07/2016/archaeologists-uncover-earliest-farming-activity-recorded-in-scotland-so-far>

History

Glasgow's first monument to William Wallace unveiled

http://www.scotsman.com/glasgow/glasgow-s-first-monument-to-william-wallace-unveiled-1-4174351?utm_content=buffer6cc0f&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

The Bomb That Rocked San Francisco 100 Years Ago

<http://time.com/4411324/san-francisco-1916-bombing-preparedness-day-parade-anniversary-centennial/>

How 2 Muslim Women Built the World's Oldest Library

https://www.globalcitizen.org/en/content/muslim-women-worlds-oldest-library-travel-morocco/?utm_source=facebook&utm_medium=social&utm_content=global&utm_campaign=general-content&linkId=27006877

How the hunt for D.B. Cooper made an aging Vietnam veteran the target of TV sleuths

https://www.washingtonpost.com/local/how-the-hunt-for-db-cooper-made-an-aging-vietnam-veteran-the-target-of-tv-sleuths/2016/07/27/66b24736-492e-11e6-bdb9-701687974517_story.html?tid=sm_fb

United States Holocaust Memorial Museum Declares "Genocide Emergency" in Sudan

https://www.ushmm.org/information/press/press-releases/united-states-holocaust-memorial-museum-declares-genocide-emergency-in-suda?utm_content=sf4963382&utm_medium=spredfast&utm_source=twitter&utm_campaign=US+Holocaust+Memorial+Museum&sf4963382=1&sf31739290=1

These 4 Women From Saudi Arabia Join Olympics, Making History

https://www.globalcitizen.org/en/content/saudi-arabia-women-olympics-competition/?utm_source=facebook&utm_medium=social&utm_content=global&utm_campaign=general-content&linkId=27096230

My Turn: I am a Muslim; see me for who I am

<http://www.concordmonitor.com/Muslim-religion-Islamophobes-3712624>

Muslim woman shares touching story of stranger's empathy, compassion

<https://www.yahoo.com/news/muslim-american-woman-shares-touching-story-of-strangers-empathy-compassion-190608320.html>

Durham Cathedral opens hidden treasures and spaces to public

https://www.theguardian.com/world/2016/jul/21/durham-cathedral-opens-hidden-treasures-and-spaces-to-public?utm_content=buffer7e05e&utm_medium=social&utm_source=facebook.com&utm_campaign=buffer

India Will Become the World's Most Populous Country by 2022, the U.N. Says

http://time.com/3978175/india-population-worlds-most-populous-country/?iid=sr-link6&xid=time_socialflow_facebook

Indian Muslim women defy tradition - and men - to be judges

<http://news.trust.org/item/20160720020101-ofqeg/>

Beyond Anne Frank: Dutch tell their full Holocaust story

<http://www.bendbulletin.com/nation/4510172-151/beyond-anne-frank-dutch-tell-their-full-holocaust>

Why European Islam's current problems might reflect a 100-year-old mistake

<http://www.economist.com/blogs/erasmus/2016/07/ottoman-caliphs?fsrc=scn/tw/te/bl/ed/?fsrc=scn/fb/te/bl/ed/theottomancaliphswhyeuropeanislamscurrentproblemsmightreflecta100yearoldmistake>

Experts Reveal the True Hidden Message in Leonardo Da Vinci's 'The Last Supper'

<https://news.artnet.com/art-world/true-hidden-message-da-vinci-last-supper-581756>

Ancient art of brick making gives brightness to war-stricken Yemen

<http://english.ahram.org.eg/NewsContent/5/35/236170/Arts--Culture/Stage--Street/Ancient-art-of-brick-making-gives-brightness-to-wa.aspx>

Pope, at Auschwitz, asks God to forgive 'so much cruelty'

http://www.reuters.com/article/us-pope-poland-auschwitz-idUSKCN109142?utm_source=Facebook&utm_medium=Social

Ancient feces provides earliest evidence of infectious disease being carried on Silk Road

http://www.eurekalert.org/pub_releases/2016-07/uoc-afp071916.php

Learn to Be a Viking (Without the Pillaging) in Ribe, Denmark

<http://www.smithsonianmag.com/travel/learn-be-viking-ribe-denmark-180959707/>

How Do Smithsonian Curators Decide What to Collect at the Political Conventions?

<http://www.smithsonianmag.com/smithsonian-institution/how-do-curators-decide-what-collect-political-conventions-180959937/>

Sarah Winnemucca Devoted Her Life to Protecting Native Americans in the Face of an Expanding United States

<http://www.smithsonianmag.com/history/sarah-winnemucca-devoted-life-protecting-lives-native-americans-face-expanding-united-states-180959930/>

Did ancient Polynesians visit California? Maybe so. / Scholars revive idea using linguistic ties, Indian headdress

<http://m.sfgate.com/news/article/Did-ancient-Polynesians-visit-California-Maybe-2661327.php?cmpid=fb-desktop>

Extra Fingers and Toes Were Revered in Ancient Culture

<http://news.nationalgeographic.com/2016/07/chaco-canyon-pueblo-bonito-social-implications-polydactyly-extra-toes/>

Paracas' elongated skulls changing known history

<http://www.peruthisweek.com/news-paracas-elongated-skulls-changing-history-110054>

How Ancient Polynesian Sailors Navigated the Ocean

<http://www.popularmechanics.com/science/a22061/polynesian-stick-chart/>

National Museum of Oman opens in Muscat

<http://theartnewspaper.com/news/museums/national-museum-of-oman-opens-in-muscat/>

Archaeology

EU countries failing to protect cultural heritage

<https://www.euractiv.com/section/languages-culture/news/eu-countries-failing-to-protect-cultural-heritage/?platform=hootsuite>

Antiquities in the Art Market

<http://savingantiquities.org/antiquities-art-market/?platform=hootsuite>

Conservation of wooden prisoners' barracks of Birkenau completed

<http://auschwitz.org/en/museum/news/conservation-of-wooden-prisoners-barracks-of-birkenau-completed.1210.html>

Ancient city ruins in Tokat to undergo renewed excavations

<http://www.dailysabah.com/history/2016/07/18/ancient-city-ruins-in-tokat-to-undergo-renewed-excavations>

How Historic Preservation Can Drive Examination of Racial Inequality

<https://nextcity.org/daily/entry/green-book-project-historic-preservation-sites>

Pokémon Go Stop on Sacred Burial Site Infuriates Indigenous People

<http://indiancountrytodaymedianetwork.com/2016/07/26/pokemon-go-stop-sacred-burial-site-infuriates-indigenous-people-165264>

Tracing Alaska's Russian Heritage

http://www.smithsonianmag.com/travel/alaska-russian-heritage-smithsonian-journeys-travel-quarterly-180959449/?utm_content=buffer63ba3&no-ist

Citizens map out Gaza's history

<http://ht.ly/VCr6302CUyj>

As Storms Erode California's Cliffs, Buried Village Could Get Washed Away

<http://www.npr.org/2016/07/26/486471614/as-storms-erode-californias-cliffs-buried-village-could-get-washed-away>

US tourist spends night on roof of Milan's Duomo cathedral

<https://www.yahoo.com/news/us-tourist-spends-night-roof-milans-duomo-cathedral-113836406.html>

The Forbidden City's 600-year-old plumbing keeps it dry as the rest of China floods

https://www.washingtonpost.com/news/worldviews/wp/2016/07/29/the-forbidden-citys-600-year-old-plumbing-keeps-it-dry-as-the-rest-of-china-floods/?tid=sm_fb

Archeological projects start to dig up secrets at the Alamo

<http://www.reuters.com/article/us-texas-alamo-idUSKCN1002S9>

Lost City of Pteria finally unearthed in Turkey's Yozgat

<http://www.hurriyetdailynews.com/lost-city-of-pterian-finally-unearthed-in-turkeys-yozgat.aspx?pageID=238&nid=102105>

Prehistoric Village Likely Torched by Bronze-Age Warriors

<http://www.livescience.com/55549-bronze-age-village-burned-by-warriors.html>

Will a Hidden Treasure Chamber Discovered Under Machu Picchu Finally Be Revealed?

<http://www.forbes.com/sites/jimdobson/2016/07/26/will-a-hidden-treasure-chamber-discovered-under-machu-picchu-finally-be-revealed/#217081d438b0>

Archaeologists Find 40,000-Year-Old Rope-Making Tool in Germany

<http://www.sci-news.com/archaeology/rope-making-tool-germany-04047.html>

Remains of lost Spanish fort found on South Carolina coast

<http://phys.org/news/2016-07-lost-spanish-fort-south-carolina.html>

Egyptology

Mummified Egyptian Was Just As Sedentary and Carb-Hungry As Modern Men

<http://www.npr.org/sections/thetwo-way/2016/07/26/487505112/mummified-egyptian-was-just-as-sedentary-and-carb-hungry-as-modern-men>

Historic archeological discovery of Egyptian statue unearthed in Tel-Hazor

<http://www.jpost.com/Israel-News/Historic-archeological-discovery-of-Egyptian-statue-unearthed-in-Tel-Hazor-462312>

Poles have solved the riddle of defensive structures of the Middle Nile

<http://scienceinpoland.pap.pl/en/news/news.410546.poles-have-solved-the-riddle-of-defensive-structures-of-the-middle-nile.html>

General Science

Research team develops ultrathin, transparent oxide thin-film transistors for wearable display
<http://phys.org/news/2016-07-team-ultrathin-transparent-oxide-thin-film.html>

Vortex laser offers hope for Moore's Law
<http://phys.org/news/2016-07-vortex-laser-law.html>

Physics, Earth and Space Sciences

Scientists found something unexpected on Mars – and it could require us to rethink the planet's history
https://www.weforum.org/agenda/2016/06/scientists-found-something-unexpected-on-mars-and-it-could-require-us-to-rethink-the-planet-s-history/?utm_content=buffer6a11c&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

NASA Spaceship Captures Epic Shot of Moon Passing In Front of the Earth
<https://uk.news.yahoo.com/nasa-spaceship-captures-epic-shot-of-moon-passing-072105645.html>

NASA orders second space station ferry ship from SpaceX
<http://www.cbsnews.com/news/nasa-orders-second-spacex-space-station-ferry-ship/>

Jupiter's great red spot heats planet's upper atmosphere
<http://phys.org/news/2016-07-jupiter-great-red-planet-upper.html>

The role of magnetic fields in star formation
<http://phys.org/news/2016-07-role-magnetic-fields-star-formation.html>

Cataclysm at Meteor Crater: Crystal sheds light on Earth, moon, Mars
<http://phys.org/news/2016-07-cataclysm-meteor-crater-crystal-earth.html>

'Eye of Horus' lens system involves three galaxies
<http://www.futurity.org/gravitational-lensing-eye-of-horus-1214892-2/>

Environment, Climate Change and Alternative Energy Sources

Bacteria made to turn sewage into clean water – and electricity

https://www.newscientist.com/article/mg23130840-100-bacteria-made-to-turn-sewage-into-clean-water-and-electricity/?utm_medium=Social&utm_campaign=Echobox&utm_source=Facebook&utm_term=Autofeed&cmpid=SOC%7cNSNS%7c2016-Echobox

Israel Proves the Desalination Era is Here

http://www.scientificamerican.com/article/israel-proves-the-desalination-era-is-here/?WT.mc_id=SA_TW_ENGYSUS_NEWS

CO2 can be stored underground for 10 times the length needed to avoid climatic impact: study

<http://phys.org/news/2016-07-co2-underground-length-climatic-impact.html>

Breakthrough solar cell captures carbon dioxide and sunlight, produces burnable fuel

<http://phys.org/news/2016-07-breakthrough-solar-cell-captures-carbon.html>

Chernobyl Might Become a Solar Farm

<http://www.popularmechanics.com/science/energy/a22112/chernobyl-solar-farm/>

Biological, Genetics and Medical Sciences

Novel 'repair system' discovered in algae may yield new tools for biotechnology

<http://phys.org/news/2016-07-algae-yield-tools-biotechnology.html>

Harnessing the Immune System to Fight Cancer

http://www.nytimes.com/2016/07/31/health/harnessing-the-immune-system-to-fight-cancer.html?smid=fb-share&_r=1

Human-Like Speech Seen In Orangutans For The First Time

<http://www.pbs.org/wgbh/nova/next/evolution/human-like-speech-seen-in-orangutans-for-the-first-time/>

HIV therapy for breastfeeding mothers can virtually eliminate transmission to babies

<https://www.nih.gov/news-events/news-releases/hiv-therapy-breastfeeding-mothers-can-virtually-eliminate-transmission-babies>

When Whales Started Living Large

<http://blogs.scientificamerican.com/laelaps/when-whales-started-living-large/#>

Death spiral: 4th phase of life may signal the end is near

<http://www.cbsnews.com/news/death-spiral-4th-phase-of-life-may-signal-the-end-is-near/>

Testing confirms mysterious, rarely seen species of whale in Pacific Ocean

<http://www.cbsnews.com/news/testing-confirms-mysterious-rarely-seen-species-of-whale-in-pacific-ocean/>

Poll on Human Enhancement Shows Divided Public

<https://www.technologyreview.com/s/602031/poll-on-human-enhancement-shows-divided-public/?set=602042>

Artificial Pancreas Is First To Raise \$1 Million Under New Crowdfunding Rules

<https://www.technologyreview.com/s/601999/artificial-pancreas-is-first-to-raise-1-million-under-new-crowdfunding-rules/?set=602042>

A Portable Factory Uses Yeast To Make Drugs On Demand

<http://www.popsci.com/portable-biopharmaceutical-factory-could-change-how-remote-doctors-work>

Other

Bizarre Proof to Torment Mathematicians for Years to Come

<http://www.scientificamerican.com/article/bizarre-proof-to-torment-mathematicians-for-years-to-come/>

Additional Informational

Talks to restore your faith in humanity

http://www.ted.com/playlists/216/talks_to_restore_your_faith_in_1?utm_campaign=social&utm_medium=referral&utm_source=facebook.com&utm_content=playlist&utm_term=humanities

Refugee Olympic Team to shine spotlight on worldwide refugee crisis- Video

<https://www.youtube.com/watch?v=Qx8kvu94PvI&feature=youtu.be>

The Long Blue Line: Coast Guardsman Eliot Winslow, Nazi Johann-Heinrich Fehler and the surrender of U-234 (Part 2)

<http://coastguard.dodlive.mil/2016/07/the-long-blue-line-coast-guardsman-eliot-winslow-nazi-johann-heinrich-fehler-and-the-surrender-of-u-234-part-2/>

6 Historical Figures Who May or May Not Have Existed

http://www.history.com/news/history-lists/6-historical-figures-who-may-or-may-not-have-existed?cmpid=Social_FBPAGE_HISTORY_20160730_529843702&linkId=27019497

The Mystery of Jane Wallis Burrell: The First CIA Officer to die in the Agency's Service

<https://www.cia.gov/news-information/featured-story-archive/2016-featured-story-archive/mystery-of-jane-wallis-burrell.html>