

**Weekly Science Report**  
**June 23, 2017**

**“How could the Greeks ever forgive their Catholic brothers, whose swords still dripped with Christian blood, and who had betrayed and violated their holiest shrines.”**

Pope Innocent III on the sacking of Constantinople

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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

Archaeologists unearth prehistoric ritual area around Bryn Celli Ddu

<https://www.theguardian.com/science/2017/jun/21/archeologists-unearth-prehistoric-ritual-area-bryn-celli-ddu-anglesey>

Science Says: DNA shows early spread of cats in human world

<https://apnews.com/cec1a1c6a8cc4728830ad1c859e0ec72>

Volcanoes 'triggered dawn of dinosaurs'

<http://www.bbc.com/news/science-environment-40333902>

The newly discovered Russian dinosaur named after Mongolian spirit

[https://www.eurekalert.org/pub\\_releases/2017-06/lmsu-tnd061517.php](https://www.eurekalert.org/pub_releases/2017-06/lmsu-tnd061517.php)

Study sheds light on Neanderthal-Homo sapiens transition

[https://www.eurekalert.org/pub\\_releases/2017-06/anu-ssl061317.php](https://www.eurekalert.org/pub_releases/2017-06/anu-ssl061317.php)

Ancient otter tooth found in Mexico suggests mammals migrated across America

[https://www.eurekalert.org/pub\\_releases/2017-06/uab-aot061217.php](https://www.eurekalert.org/pub_releases/2017-06/uab-aot061217.php)

Unraveling the mysteries of Nipponosaurus

[https://www.eurekalert.org/pub\\_releases/2017-06/hu-utm060917.php](https://www.eurekalert.org/pub_releases/2017-06/hu-utm060917.php)

## History

Anne Frank's Diary At 75

<http://www.npr.org/2017/06/23/534056727/anne-franks-diary-at-75>

NPS Plans To Make Major Upgrades To Lincoln Memorial

[http://dcist.com/2017/06/lincoln\\_memorial.php](http://dcist.com/2017/06/lincoln_memorial.php)

Hidden trove of suspected Nazi artifacts found in Argentina

<https://apnews.com/d396ac910d9f477289fcc3380b6c0aec>

Evidence in Gardner Museum thefts that might bear DNA is missing

<https://www.bostonglobe.com/metro/2017/06/12/evidence-gardner-museum-thefts-that-might-bear-dna-missing/bQqapZNs1FKITczoAiqnJ/story.html>

Search for Amelia Earhart: Dogs to Help Solve Mystery by Hunting for Pilot's Remains on Uninhabited South Pacific Island

<http://www.newsweek.com/amelia-earhart-fred-noonan-remains-search-nikumaroro-627886>

2,000-Year-Old Manuscript of the Ten Commandments Gets Digitized: See/Download "Nash Papyrus" in High Resolution

<http://www.openculture.com/2017/06/the-oldest-known-manuscript-of-the-ten-commandments-get-digitized.html>

U.N. Says World's Population Will Reach 9.8 Billion By 2050

[http://www.npr.org/sections/thetwo-way/2017/06/22/533935054/u-n-says-world-s-population-will-reach-9-8-billion-by-2050?utm\\_source=facebook.com&utm\\_medium=social&utm\\_campaign=npr&utm\\_term=nprnews&utm\\_content=20170623](http://www.npr.org/sections/thetwo-way/2017/06/22/533935054/u-n-says-world-s-population-will-reach-9-8-billion-by-2050?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20170623)

Whaling's 'uncomfortable' scientific legacy

<http://www.bbc.com/news/science-environment-40385783>

Ancient skulls shed light on migration in the Roman empire

[https://www.eurekalert.org/pub\\_releases/2017-06/ncsu-ass062017.php](https://www.eurekalert.org/pub_releases/2017-06/ncsu-ass062017.php)

Multispectral imaging reveals ancient Hebrew inscription undetected for over 50 years

[https://www.eurekalert.org/pub\\_releases/2017-06/afot-mir061417.php](https://www.eurekalert.org/pub_releases/2017-06/afot-mir061417.php)

Stanford researcher sheds light on life of lesbians in Nazi Germany

[https://www.eurekalert.org/pub\\_releases/2017-06/su-srs061317.php](https://www.eurekalert.org/pub_releases/2017-06/su-srs061317.php)

Secret Tunnels Under London, Once Used to Hide Art During WWI, Open to the Public for the First Time

<http://www.smithsonianmag.com/travel/secret-tunnels-under-london-open-public-180963764/>

The Woman Whose Words Inflamed the American Revolution

<http://www.smithsonianmag.com/history/woman-whose-words-inflamed-american-revolution-180963765/>

Why Sand Covers the Floor of One of the Western Hemisphere's Oldest Synagogues

<http://www.smithsonianmag.com/travel/Caribbean-synagogue-sand-floor-180963581/>

After the Battle

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

A Renaissance masterpiece is unveiled, but its mystery remains unsolved

<http://theartnewspaper.com/shows/a-renaissance-masterpiece-is-unveiled-but-its-mystery-remains-unsolved/>

## Archaeology

New book tells tales from trenches of U.S. battlefield preservation

[http://www.fredericksburg.com/news/local/new-book-tells-tales-from-trenches-of-u-s-battlefield/article\\_40569a0e-871c-5cce-bf40-34a56a8297f6.html?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=user-share](http://www.fredericksburg.com/news/local/new-book-tells-tales-from-trenches-of-u-s-battlefield/article_40569a0e-871c-5cce-bf40-34a56a8297f6.html?utm_medium=social&utm_source=facebook&utm_campaign=user-share)

Nimrud: Restoring a city destroyed by Islamic State

<http://www.irishtimes.com/news/world/middle-east/nimrud-restoring-a-city-destroyed-by-islamic-state-1.3121133>

Archaeologists Find Ancient Treasure in Beautifully Preserved Roman Ruins in Libya

<http://www.newsweek.com/treasure-libya-archaeology-ruins-benghazi-623466>

Syrian refugees to be trained to rebuild Palmyra and other heritage sites

<http://theartnewspaper.com/news/news/syrian-refugees-to-be-trained-in-traditional-stone-masonry-to-rebuild-palmyra-and-other-heritage-sit/>

Iconic mosque where ISIS leader declared caliphate destroyed

<http://www.cbsnews.com/news/iconic-al-nuri-mosque-mosul-destroyed/?ftag=CNM-00-10aab6a&linkId=38955943>

Jerusalem tower younger than thought

[https://www.eurekalert.org/pub\\_releases/2017-06/wios-jty061517.php](https://www.eurekalert.org/pub_releases/2017-06/wios-jty061517.php)

Connecting Two Realms: Archaeologists rethink the early civilizations of the Amazon

<http://www.archaeology.org/issues/266-1707/letter-from/5653-letter-from-peru-spiral-temples>

Machu Picchu: New Archaeological Finds from Inca Citadel Released

<http://www.peruthisweek.com/news-machu-picchu-new-archaeological-finds-from-inca-citadel-released-111879>

This Volcano-Shaped Pyramid in Peru Has Experts Stumped

<https://www.livescience.com/59544-mysterious-volcano-shaped-pyramid-in-peru.html>

Archaeologists in Ethiopia uncover ancient city in Harlaa

<http://www.bbc.com/news/world-africa-40301959>

French military funds technology to document heritage in conflict zones

<http://theartnewspaper.com/news/conservation/french-military-funds-technology-to-document-heritage-in-conflict-zones/>

## Egyptology

484 antiques were returned to Egypt: Anany

<https://dailynewsegypt.com/2017/06/18/484-antiques-returned-egypt-anany/>

Ancient Egyptian Writing: New Symbols Reveal Development Of Hieroglyphics

<http://www.newsweek.com/ancient-egyptians-writing-hieroglyphics-yale-university-expedition-628221>

DNA discovery reveals genetic history of ancient Egyptians

<http://www.cnn.com/2017/06/22/health/ancient-egypt-mummy-dna-genome-heritage/index.html?sr=fbccni062217ancient-egypt-mummy-dna-genome-heritage1136PMVODtopPhoto&linkId=39003648>

A wooden toe: Swiss Egyptologists study 3,000-year-old prosthesis

[https://www.eurekalert.org/pub\\_releases/2017-06/uob-awt062017.php](https://www.eurekalert.org/pub_releases/2017-06/uob-awt062017.php)

## General Science

The Quantum Computer Factory that is taking on Google and IBM

[https://www.wired.com/story/quantum-computing-factory-taking-on-google-ibm?mbid=nl\\_62117\\_p2&CNDID=41291302](https://www.wired.com/story/quantum-computing-factory-taking-on-google-ibm?mbid=nl_62117_p2&CNDID=41291302)

The latest flying car concept seems dare we say serious

[https://www.wired.com/story/neva-airquadone-flying-cars-paris-air-show/?mbid=nl\\_61917\\_p2&CNDID=41291302](https://www.wired.com/story/neva-airquadone-flying-cars-paris-air-show/?mbid=nl_61917_p2&CNDID=41291302)

Personalized Exoskeletons Are Making Strides Toward a Man-Machine Interface

<https://www.seeker.com/tech/robotics/personalized-exoskeletons-are-making-strides-toward-a-man-machine-interface>

Brain-inspired supercomputing system takes spotlight in IBM, US Air Force Research Lab collab

<https://techxplore.com/news/2017-06-brain-inspired-supercomputing-spotlight-ibm-air.html>



## Physics, Earth and Space Sciences

A total solar eclipse will sweep the width of the U.S. for the first time in 99 years

[https://www.boston.com/news/national-news/2017/06/24/a-total-solar-eclipse-will-sweep-the-width-of-the-u-s-for-the-first-time-in-99-years?s\\_campaign=bcom%3Asocialflow%3Afacebook](https://www.boston.com/news/national-news/2017/06/24/a-total-solar-eclipse-will-sweep-the-width-of-the-u-s-for-the-first-time-in-99-years?s_campaign=bcom%3Asocialflow%3Afacebook)

NASA Releases Kepler Survey Catalog with Hundreds of New Planet Candidates

<https://www.jpl.nasa.gov/news/news.php?feature=6874#.WUjmYjKkCE.facebook>

JPL scientists predict future space probes will have artificial intelligence to operate autonomously

<https://phys.org/news/2017-06-jpl-scientists-future-space-probes.html>

Unseen 'planetary mass object' signalled by warped Kuiper Belt

<https://phys.org/news/2017-06-unseen-planetary-mass-warped-kuiper.html>

Is it time to rethink how we search for alien life?

<http://www.cbsnews.com/news/is-it-time-to-rethink-search-for-alien-life/>

SpaceX launches first satellite in doubleheader

<http://www.cbsnews.com/news/spacex-launches-first-satellite-in-weekend-doubleheader/>

Europe selects grand gravity mission

<http://www.bbc.com/news/science-environment-40346410>

Mars rover Opportunity on walkabout near rim

<https://phys.org/news/2017-06-mars-rover-opportunity-walkabout-rim.html>

CHESS mission will check out the space between stars

<https://phys.org/news/2017-06-chess-mission-space-stars.html>

Solar System Survey Casts Doubt on Mysterious "Planet Nine"

<https://www.scientificamerican.com/article/solar-system-survey-casts-doubt-on-mysterious-ldquo-planet-nine-rdquo/>

Elon Musk Publishes Plans for Colonizing Mars

<https://www.scientificamerican.com/article/elon-musk-publishes-plans-for-colonizing-mars/>

## Environment, Climate Change and Alternative Energy Sources

Deceleration of runaway electrons paves the way for fusion power

<https://phys.org/news/2017-06-deceleration-runaway-electrons-paves-fusion.html>

Mining company chooses to protect rare deposit of zebra rock rather than mine it

<http://www.abc.net.au/news/rural/2017-06-19/zebra-rock-mining-company-chooses-to-protect-rare-deposit/8540958>

Record levels of green energy in UK create strange new world for generators

[https://www.theguardian.com/business/2017/jun/17/green-energy-surge-fuels-anxiety-uk-power-grid?CMP=fb\\_qu](https://www.theguardian.com/business/2017/jun/17/green-energy-surge-fuels-anxiety-uk-power-grid?CMP=fb_qu)

Fattened, genetically engineered Algae might fuel the future

[https://www.wired.com/story/synthetic-genomics-genetically-engineered-algae-might-fuel-the-future?mbid=nl\\_61917\\_p9&CNDID=41291302](https://www.wired.com/story/synthetic-genomics-genetically-engineered-algae-might-fuel-the-future?mbid=nl_61917_p9&CNDID=41291302)

Trump Inspires Scientist Studying Climate Change to Run for Congress

[http://www.nbcnews.com/politics/politics-news/trump-inspires-scientist-studying-climate-change-run-congress-n768976?cid=sm\\_npd\\_nn\\_fb\\_ma](http://www.nbcnews.com/politics/politics-news/trump-inspires-scientist-studying-climate-change-run-congress-n768976?cid=sm_npd_nn_fb_ma)

Kenya's national electrification campaign is taking less than half the time it took America

<https://qz.com/882938/kenya-is-rolling-out-its-national-electricity-program-in-half-the-time-it-took-america/>

## Biological, Genetics and Medical Sciences

Extra-virgin olive oil preserves memory and protects brain against Alzheimer's: study  
<https://medicalxpress.com/news/2017-06-extra-virgin-olive-oil-memory-brain.html>

WPI Team Grows Heart Tissue on Spinach Leaves  
<https://www.wpi.edu/news/wpi-team-grows-heart-tissue-spinach-leaves>

Whale body size warning for species collapses  
<http://www.bbc.com/news/science-environment-40370691>

Bioengineers create more durable, versatile wearable for diabetes monitoring  
<https://phys.org/news/2017-06-bioengineers-durable-versatile-wearable-diabetes.html>

Can heightened empathy be a bad thing?  
<https://www.newscientist.com/article/mg23431311-100-can-heightened-empathy-be-a-bad-thing/>

## Other

Emmy Winner Shohreh Aghdashloo on 'The Expanse,' Trump and Stereotypes of Middle Eastern Actors

<http://variety.com/2017/tv/global/shohreh-aghdashloo-on-why-the-expanse-is-a-milestone-for-middle-east-actors-1202470170/>

Stephen Hawking: "I am convinced that Humans need to leave Earth

<http://fortune.com/2017/06/21/stephen-hawking-humans-leave-earth/>

Rev. William Barber is building a new 'moral movement' to reach people on race

<http://www.pbs.org/newshour/bb/rev-william-barber-building-new-moral-movement-reach-people-race/>

## **Additional Informational**

John Anthony West Crowdfund Campaign

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

Prehistoric cooking versus accurate palaeotemperature records in shell midden constituents

<http://www.nature.com/articles/s41598-017-03715-8>

Why Pocahontas May Not Have Rescued John Smith After All- Video

<http://www.smithsonianmag.com/videos/category/history/why-pocahontas-may-not-have-rescued-john-smi/>