



Sharing Knowledge to create a Better World!



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Weekly Science Report

March 17, 2023

“Until lions have their historians, tales of the hunt shall always glorify the hunters.”

African Proverb

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Introduction

Steve Detwiler created this publication with the support of Graham Hancock and the late 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!

The Weekly Science Report is also on social media at:

- Facebook: <https://www.facebook.com/weeklysciencertpt/>
- Twitter: <https://twitter.com/wklysciencertpt>

News Articles

Paleontology, Evolution and Prehistoric Studies

What were Neanderthals really like—and why did they go extinct?

<https://www.nationalgeographic.co.uk/history-and-civilisation/2023/03/what-were-neanderthals-really-like-and-why-did-they-go-extinct>

New study discovers eight new prehistoric human groups

<https://www.ipost.com/archaeology/article-733442>

The archaeologists recreating the secrets of prehistoric technology

<https://www.newscientist.com/article/2364153-the-archaeologists-recreating-the-secrets-of-prehistoric-technology/#Echobox=1678826078>

Neolithic ceramics reveal dairy processing from milk of multiple species

<https://phys.org/news/2023-03-neolithic-ceramics-reveal-dairy-multiple.html>

Stone flakes made by modern monkeys trigger big questions about early humans

<https://www.npr.org/sections/health-shots/2023/03/10/1161652099/monkey-stone-flakes-early-humans-tools?sc=18&f=1001>

Ancient DNA Sheds Light on Europe's Hunter-Gatherers

<https://www.smithsonianmag.com/smart-news/ancient-dna-sheds-light-on-europes-hunter-gatherers-180981730/>

7,000-year-old cult site in Saudi Arabia was filled with human remains and animal bones

<https://www.livescience.com/7000-year-old-cult-site-in-saudi-arabia-was-filled-with-human-remains-and-animal-bones>

Genomic study of ancient humans sheds light on human evolution on the Tibetan Plateau

<https://phys.org/news/2023-03-genomic-ancient-humans-human-evolution.html>

Fossil site is 'Rosetta Stone' for understanding early life

<https://phys.org/news/2023-03-fossil-site-rosetta-stone-early.html>

History

3,000 languages may go extinct by end of 21st century: UNESCO

https://www.dailysabah.com/arts/3000-languages-may-go-extinct-by-end-of-21st-century-unesco/news?gallery_image=undefined#big

Toronto museum returns objects to family of famous Cree leader

<https://www.theartnewspaper.com/2023/02/24/royal-ontario-museum-repatriates-poundmaker-saddlebag-pipe-cree-leader>

These were the most visited national parks and memorials in 2022

<https://www.npr.org/2023/03/06/1161246636/national-parks-momuments-attendance-visits?sc=18&f=1001>

The Latest UNESCO World Heritage Site Nominee Is a U.S. Destination You Might Not Expect

<https://www.travelandleisure.com/moravian-church-bethlehem-pennsylvania-unesco-world-heritage-nominee-7153195>

Denver donates 35 bison to Native American tribes

<https://www.npr.org/2023/03/16/1164015750/native-american-bison-buffalo-denver-donate?sc=18&f=1001>

He was with Emmett Till the night he was murdered. The horror haunts him still

<https://www.npr.org/2023/03/12/1162677900/emmett-till-wheeler-parker?sc=18&f=1001>

Chance cross-cultural unicorn concepts lost in translation

<https://phys.org/news/2023-03-chance-cross-cultural-unicorn-concepts-lost.html>

Cyprus's copper deposits created one of the most important trade hubs in the Bronze Age

<https://www.sciencedaily.com/releases/2023/03/230316114041.htm>

1,400-year-old mural of 2-faced men unearthed in Peru may allude to 'cosmic realms'

<https://www.livescience.com/1400-year-old-mural-of-2-faced-men-unearthed-in-peru-may-allude-to-cosmic-realms>

Traute Lafrenz, Last Surviving Member of Anti-Nazi Resistance Group the White Rose, Dies at 103

<https://www.smithsonianmag.com/smart-news/traute-lafrenz-last-surviving-member-of-anti-nazi-resistance-group-the-white-rose-dies-at-103-180981780/>

The Tenacious Women Reporters Who Helped Expose the Boston Strangler

<https://www.smithsonianmag.com/history/the-tenacious-women-reporters-who-helped-expose-the-boston-strangler-180981786/>

Adventurer Elise Wortley Recreates the Journeys of Famous Female Explorers

<https://www.smithsonianmag.com/travel/adventurer-elise-wortley-recreates-the-journeys-of-famous-female-explorers-180981763/>

Japanese American Artists Recall the Trauma of Wartime Incarceration

<https://www.smithsonianmag.com/smithsonian-institution/japanese-american-artists-recall-the-trauma-of-wartime-incarceration-180981746/>

Da Vinci's mother was an enslaved teenager trafficked to Italy, new documents suggest

<https://www.livescience.com/da-vincis-mother-was-an-enslaved-teenager-trafficked-to-italy-new-documents-suggest>

Archaeology

Iraq rebuilding ancient sites destroyed by ISIS, Abu Dhabi conference hears

https://www.thenationalnews.com/uae/2023/03/07/iraq-rebuilding-ancient-sites-destroyed-by-isis-abu-dhabi-conference-hears/?utm_source=iterable&utm_medium=email&utm_campaign=6336387

Israel Antiquities Authority must rein in enthusiasm before its next find – editorial

https://www.jpost.com/opinion/article-733447?fireglass_rsn=true#fireglass_params&tabid=a9b141f6820bfa3f&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

How a UC Berkeley professor taught with remains suspected to be Native American

<https://www.nbcnews.com/news/us-news/uc-berkeley-native-american-remains-rcna72748>

Folktale becomes reality as Roman altar unearthed at Leicester Cathedral

https://www.theguardian.com/uk-news/2023/mar/07/amazing-roman-altar-stone-unearthed-at-leicester-cathedral?CMP=fb_gu&utm_medium=Social&utm_source=Facebook#Echobox=1678226963

U.S. returns 2,700-year-old artifact believed looted during the fall of Baghdad in 2003

<https://www.usatoday.com/story/news/nation/2023/03/13/us-returns-ancient-artifact-iraq/11466799002/>

"Amazing" inscription found on 1,600-year-old gold treasure unearthed in Denmark

<https://www.cbsnews.com/news/gold-treasure-unearthed-denmark-odin-norse-god-inscription/?ftag=CNM-00-10aab6a&linkId=204588670>

Dutch historian finds medieval treasure using metal detector

<https://www.nbcnews.com/news/world/dutch-historian-discovers-medieval-treasure-using-metal-detector-rcna74304>

Viking treasure reveals oldest reference to Norse god Odin

<https://www.nbcnews.com/news/world/norse-god-odin-oldest-reference-found-viking-treasure-rcna73939>

Ancient artifacts reveal the 'roots of Casas Grandes'

<https://phys.org/news/2023-03-ancient-artifacts-reveal-roots-casas.html>

Roman archaeological site in Gloucester closed after flooding

<https://www.bbc.com/news/uk-england-gloucestershire-64918104>

Lasers and chemistry reveal how ancient pottery was made, and how an empire functioned

<https://phys.org/news/2023-03-lasers-chemistry-reveal-ancient-pottery.html>

Roman era gravesites with unusual funerary rites

<https://phys.org/news/2023-03-roman-era-gravesites-unusual-funerary.html>

Notre Dame is held together by a first-of-its-kind 'iron skeleton,' catastrophic fire revealed

<https://www.livescience.com/notre-dame-is-held-together-by-a-first-of-its-kind-iron-skeleton-catastrophic-fire-revealed>

Bronze Age craftspeople tempered steel more than 1,000 years before the Romans did it

<https://www.livescience.com/bronze-age-craftspeople-tempered-steel-more-than-1000-years-before-the-romans-did-it>

Egyptology

Archaeologists in Egypt unearth Sphinx-like Roman-era statue

<https://abcnews.go.com/International/wireStory/archaeologists-egypt-unearth-sphinx-roman-era-statue-97654907#:~:text=A%20secret%20corridor%20was%20discovered,Egypt%2C%20antiquities%20authorities%20said%20Monday.>

Archaeologists dug for evidence of the Rosetta Stone's ancient Egyptian rebellion—here's what they found

<https://phys.org/news/2023-03-archaeologists-dug-evidence-rosetta-stone.html>

General Science

This small prototype submarine could fly through the water for covert missions

<https://www.popsci.com/technology/kronos-submarine-prototype/>

Viable superconducting material created at low temperature and low pressure

<https://phys.org/news/2023-03-viable-superconducting-material-temperature-pressure.html>

A soft polymer-based tactile sensor for robotics applications

<https://techxplore.com/news/2023-03-soft-polymer-based-tactile-sensor-robotics.html>

Lacking health workers, Germany taps robots for elder care

<https://techxplore.com/news/2023-03-lacking-health-workers-germany-robots.html>

Physics, Earth and Space Sciences

The World's First 3D-Printed Rocket Is About to Launch

https://www.wired.com/story/the-worlds-first-3d-printed-rocket-is-about-to-launch-relativity-space/?bxd=5bd6790424c17c1048020acb&cndid=41291302&esrc=twitter-newsletter-c&mbid=mbid%3DCRMWIR012019%0A%0A&source=Email_0_EDT_WIR_NEWSLETTER_0_DAILY_ZZ&utm_brand=wired&utm_campaign=aud-dev&utm_content=WIR_Daily_031023&utm_mailing=WIR_Daily_031023&utm_medium=email&utm_source=nl&utm_term=P2

NASA's Curiosity views first 'sun rays' on Mars

<https://phys.org/news/2023-03-nasa-curiosity-views-sun-rays.html>

A guide to the solar system's biggest secrets

<https://www.popsci.com/story/space/solar-system-mysterious-parts/>

What's the maximum gravity we could survive?

https://astronomy.com/news/2018/09/gravity-to-the-max?fbclid=IwAR1KmkhuaA7HOJCXTn8OwFnXOPFtyhVwACX48iiLjv5XXAm-8l8CA75oVA0&fireglass_rsn=true#fireglass_params&tabid=aeb258adefd39c1e&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

What Earth Would Have Really Looked Like in Adam Driver's '65'

https://www.smithsonianmag.com/science-nature/what-earth-would-have-really-looked-like-in-the-sci-fi-movie-65-180981772/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=3/13/2023&utm_content=recent

DART left an asteroid crime scene. This mission is on deck to investigate it.

<https://www.popsci.com/science/hera-asteroid-deflection-space-mission/>

Virgin Orbit, Richard Branson's satellite launch company, to pause operations

<https://www.nbcnews.com/science/space/virgin-orbit-richard-bransons-satellite-launch-company-pause-operation-rcna75256>

Future NASA moonwalkers will sport sleeker spacesuits

<https://www.nbcnews.com/science/space/future-nasa-moonwalkers-sport-sleeker-spacesuits-rcna75142>

Volcanic activity on Venus spotted in radar images, scientists say

<https://www.npr.org/2023/03/17/1164053464/volcanic-activity-on-venus-spotted-in-radar-images-scientists-say?sc=18&f=1001>

Boom! Japanese astronomer catches meteorite smashing into the moon (video)

https://www.space.com/meteorite-impacts-moon-february-2023-video?utm_medium=social&utm_campaign=socialflow&utm_content=space.com&utm_source=facebook.com

Four astronauts fly SpaceX back home to end 5-month mission

<https://www.npr.org/2023/03/11/1162906273/spacex-astronaut-mission?sc=18&f=1001>

Newly found asteroid has a 'very small chance' of hitting Earth, NASA says

<https://www.npr.org/2023/03/10/1162659328/asteroid-2023-dw-nasa-earth-impact?sc=18&f=1001>

Space startup forced to call off launch of world's first 3D-printed rocket

<https://www.nbcnews.com/science/space/worlds-first-3d-printed-rocket-set-make-inaugural-flight-rcna73868>

This new space probe will go farther and faster than any before, gathering data for generations

<https://www.popsci.com/story/science/deep-space-probe-faster-farther/>

Meet the sargassum belt, a 5,000-mile-long snake of seaweed circling Florida

<https://www.npr.org/2023/03/15/1163385168/sargassum-seaweed-florida-mexico-beaches?sc=18&f=1001>

NASA instrument bound for Titan could reveal chemistry leading to life

<https://phys.org/news/2023-03-nasa-instrument-bound-titan-reveal.html>

Scientists identify heat wave at bottom of ocean

<https://phys.org/news/2023-03-scientists-bottom-ocean.html>

'Unstable' Moons May Be Obliterating Alien Life across the Universe

<https://www.scientificamerican.com/article/unstable-moons-may-be-obliterating-alien-life-across-the-universe/>

Environment, Climate Change and Alternative Energy Sources

Arizona county approves solar-powered cobalt sulfate production facility

https://pv-magazine-usa.com/2023/03/08/arizona-county-approves-solar-powered-cobalt-sulfate-production-facility/?fireglass_rsn=true#fireglass_params&tabid=ae6d8ef4dfb2bf71&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

Researchers develop biodegradable, biorecyclable glass

<https://phys.org/news/2023-03-biodegradable-biorecyclable-glass.html>

Rivers and streams in the Andean Cordillera are hot spots for greenhouse gases emissions, shows study

<https://phys.org/news/2023-03-rivers-streams-andean-cordillera-hot.html>

Newly discovered enzyme that turns air into electricity, providing a new clean source of energy

<https://phys.org/news/2023-03-newly-enzyme-air-electricity-source.html>

Biological, Genetics and Medical Sciences

Orca female observed caring for baby pilot whale

<https://phys.org/news/2023-03-orca-female-baby-whale.html>

Experts weigh medical advances in gene-editing with ethical dilemmas

<https://www.npr.org/sections/health-shots/2023/03/06/1158705095/genome-summit-gene-editing-ethics-crspr?sc=18&f=1001>

Neurotech could connect our brains to computers. What could go wrong, right?

<https://www.npr.org/2023/03/14/1163494707/neurotechnology-privacy-data-tracking-nita-farahany-battle-for-brain-book?sc=18&f=1001>

Kiska, 'the loneliest whale in the world,' dies at Canada amusement park

<https://www.npr.org/2023/03/11/1162863883/kiska-the-loneliest-whale-in-the-world-dies-at-canada-amusement-park?sc=18&f=1001>

Mysterious new behavior seen in whales may be recorded in ancient manuscripts

<https://www.sciencedaily.com/releases/2023/02/230228154458.htm>

An extra X chromosome-linked gene may explain decreased viral infection severity in females

<https://www.eurekalert.org/news-releases/983103>

New study provides first comprehensive look at oxygen loss on coral reefs

<https://www.eurekalert.org/news-releases/982920>

Genetic causes of three previously unexplained rare diseases identified

<https://www.eurekalert.org/news-releases/982614>

Protein engineers navigate toward more targeted therapeutics

<https://www.eurekalert.org/news-releases/983054>

Researchers highlight nucleolar DNA damage response in fight against cancer

<https://www.eurekalert.org/news-releases/982996>

Other

David Byrne on Talking Heads and following his own beat

<https://www.cbsnews.com/news/david-byrne-60-minutes-2023-03-05/>

With Florida ranking high in UFO sightings, astronomers ask what's up there?

<https://www.cbsnews.com/miami/news/with-florida-ranking-high-in-ufo-sightings-astronomers-ask-whats-up-there/>

Additional Informational

NASA's Magellan Data Reveals Volcanic Activity on Venus

<https://www.jpl.nasa.gov/news/nasas-magellan-data-reveals-volcanic-activity-on-venus?fbclid=IwAR3uutE23KYhrpm9wfBdSgimDwZkrF41hpYRihGsOrLLW7j5DpSVyvA7PUk>

Engineers Keep an Eye on Fuel Supply of NASA's Oldest Mars Orbiter

https://www.jpl.nasa.gov/news/engineers-keep-an-eye-on-fuel-supply-of-nasas-oldest-mars-orbiter?fbclid=IwAR2GztDTKxEn60-0ycKaNSyC27Xeikaec_fU2JpQh9OewUMFIkLUmtQrQY

The Push to Conserve 30 Percent of the Planet: What's at Stake?

https://www.cfr.org/article/goal-conserve-30-percent-planet-2030-biodiversity-climate?utm_source=tw&utm_medium=social_owned&fireglass_rsn=true#fireglass_params&tabid=aecbc8766b241243&start_with_session_counter=3&application_server_address=isolation2-us-east-1.wss.prod.fire.glass