



Sharing Knowledge to create a Better World!



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Weekly Science Report

March 3, 2023

“These virtues do not have ineffable meaning but offer a sense of morality- a way to be, and a way to behave, as a member of the human family.”

Her Majesty Queen Rania Al Abdullah of the Kingdom of Jordan on being Muslim

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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

Tool technology older than previously thought

<https://www.nature.com/articles/d44148-023-00049-8>

Homo sapiens may have brought archery to Europe about 54,000 years ago

<https://www.sciencenews.org/article/homo-sapiens-archery-europe-neandertal?fbclid=IwAR187uxNx6LMYx7Jfl33diH8mdv7A-FJJVU61Dp-cn3GMnjZ5O3ryQvswcE>

Ancient platypus cousin lived alongside dinosaurs

https://cosmosmagazine.com/history/oldest-platypus-south-america/?utm_term=Autofeed&utm_medium=Social&utm_source=Facebook#Echobox=1677549293

Ancient DNA Reveals History of Hunter-Gatherers in Europe

<https://www.nytimes.com/2023/03/01/science/dna-hunter-gatherers-europe.html?fbclid=IwAR1NXVUXD1Q7DNPETGtle-rlf4msi6dh5P8Bj-H5XZEDJpNqxK1k26Zew7Q>

Massive, 1.2 million-year-old tool workshop in Ethiopia made by 'clever' group of unknown human relatives

<https://www.livescience.com/massive-1-million-year-old-tool-workshop-in-ethiopia-made-by-clever-group-of-unknown-human-relatives>

Giant flying bug found on side of Walmart turns out to be 'super-rare' Jurassic-era insect

<https://www.usatoday.com/story/news/nation/2023/03/01/giant-bug-found-walmart-rare-jurassic-era-insect/11373651002/>

Homo sapiens may have brought archery to Europe about 54,000 years ago

<https://www.sciencenews.org/article/homo-sapiens-archery-europe-neandertal>

Bone study transforms understanding of dinosaur growth

https://www.reuters.com/lifestyle/science/bone-study-transforms-understanding-dinosaur-growth-2023-02-23/?taid=63f832c7c222f40001b587b5&utm_campaign=trueanthem&utm_medium=trueanthem&utm_source=twitter&fireglass_rsn=true#fireglass_params&tabid=ae6967ab0de0d7e9&start_with_session_counter=3&application_server_address=isolation1-us-west-2.wss.prod.fire.glass

Neanderthals spread diverse cultures across Eurasia (before we came along)

https://arstechnica.com/science/2023/02/neanderthals-spread-diverse-cultures-across-eurasia-before-we-came-along/?utm_social-type=owned&utm_brand=ars&utm_source=facebook&utm_medium=social

Mediterranean hunter-gatherers may have relied on marine resources more than previously thought

<https://phys.org/news/2023-02-mediterranean-hunter-gatherers-marine-resources-previously.html>

Oldest human genome from southern Spain

<https://phys.org/news/2023-03-oldest-human-genome-southern-spain.html>

Humans Started Riding Horses 5,000 Years Ago, New Evidence Suggests

<https://www.scientificamerican.com/article/humans-started-riding-horses-5-000-years-ago-new-evidence-suggests/>

The First Fossil Finders in North America Were Enslaved and Indigenous People
<https://www.smithsonianmag.com/history/the-first-fossil-finders-in-north-america-were-enslaved-and-indigenous-people-180981615/>

Tracing the history of grape domestication using genome sequencing
<https://phys.org/news/2023-03-history-grape-domestication-genome-sequencing.html>

History

FBI records deepen mystery of dig for Civil War-era gold

https://apnews.com/article/politics-war-and-unrest-pennsylvania-clearfield-ec6f923036d4da94d0d8b07a6e0e82bb?utm_source=homepage&utm_medium=TopNews&utm_campaign=position_08

'Jews Helped the Germans Out of Revenge or Greed': New Research Documents How Wikipedia Distorts the Holocaust

<https://www.haaretz.com/israel-news/2023-02-14/ty-article-magazine/.premium/new-research-documents-how-wikipedia-distorts-the-holocaust/00000186-4f0f-d02c-af9e-cffa9900000>

Italy has kept its fascist monuments and buildings. The reasons are complex

https://www.npr.org/2023/02/25/1154783024/italy-monuments-fascist-architecture?utm_campaign=storyshare&utm_source=twitter.com&utm_medium=social&fireglass_rsn=true#fireglass_params&tabid=abf5929f71811792&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

12,000-year-old Neolithic artifacts in museums survive quakes

https://www.dailysabah.com/arts/12000-year-old-neolithic-artifacts-in-museums-survive-quakes/news?fireglass_rsn=true#fireglass_params&tabid=a506f07d08af201a&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

'It is evidence that the Hopi clans traveled through there': New documentary explores real history of the Grand Canyon

<https://www.12news.com/article/news/regional/native-america/voices-of-the-grand-canyon-documentary-puts-narrative-grand-canyon-in-native-hands/75-f0ccb67b-6b97-4c0b-ab8a-59d8315768a0?fbclid=IwAR36NgULEml3348-aLLYy8YHSXOCVrMBq-L4cAZTzpnQoZd8jxZg9WeHQQk>

The rights to a famed PSA of a crying Native American now held by an Indigenous group

<https://www.npr.org/2023/02/26/1159590343/crying-indian-ad-rights-national-congress-of-american-indians?sc=18&f=1001>

Native Americans seized Wounded Knee 50 years ago. Here's what 1 reporter remembers

<https://www.npr.org/2023/02/27/1159630250/wounded-knee-occupation-50th-anniversary?sc=18&f=1001>

Few speak Ojibwe as a first language. This 'nest' is teaching kids to in Cloquet

https://www.mprnews.org/story/2023/02/27/few-speak-ojibwe-as-a-first-language-this-nest-is-teaching-kids-to-in-cloquet?fbclid=IwAR168wrvl4yFpVWkitJHc_fTVWa4Cd_RGEUdwihtDykRPK4pOWZ-fHf6vug&fireglass_rsn=true#fireglass_params&tabid=af8687e3d556cf15&start_with_session_counter=3&application_server_address=isolation1-us-west-2.wss.prod.fire.glass

Cambodia: Stolen Angkorian crown jewellery resurfaces in London

https://www.bbc.com/news/world-asia-64649771?fireglass_rsn=true#fireglass_params&tabid=a24b844bc7420845&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

A new museum will be built in the cavernous space beneath the Lincoln Memorial

<https://www.npr.org/2023/02/20/1158292427/lincoln-memorial-museum-undercroft?sc=18&f=1001>

Shinnecock explore connection to Native American residential schools in art exhibit
https://www.wshu.org/long-island-news/2023-02-06/shinnecock-explore-connection-to-native-american-residential-schools-in-art-exhibit?fireglass_rsn=true#fireglass_params&tabid=a5e88b94ac716281&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

For Native American chefs, recognition inspires a wider reckoning
https://www.washingtonpost.com/food/2023/02/15/native-american-restaurants-sean-sherman/?fireglass_rsn=true#fireglass_params&tabid=a31b0dc7ddf79a7d&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

New app will help preserve and teach Dakota language one word at a time
https://www.mprnews.org/story/2023/02/15/new-app-will-help-preserve-and-teach-dakota-language-one-word-at-a-time?fireglass_rsn=true#fireglass_params&tabid=a983d58bd7e2ee34&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

Tributes pour in for former President Jimmy Carter after he enters hospice care
<https://www.npr.org/2023/02/19/1158251381/tributes-pour-in-jimmy-carter-hospice?sc=18&f=1001>

Runes were just as advanced as Roman alphabet writing, says researcher
<https://phys.org/news/2023-03-runes-advanced-roman-alphabet.html>

4,000-year-old city along Chinese river is a breakthrough for understanding ancient life
https://www.kansascity.com/news/nation-world/world/article272614717.html#storylink=mainstage_card

Jungle Realm of the Snake Queens
<https://www.archaeology.org/issues/494-2301/features/11025-maya-snake-queens>

For the Enslaved Potter David Drake, His Literary Practice Was His Resistance
<https://www.smithsonianmag.com/smithsonian-institution/dave-the-potters-resistance-was-his-literary-practice-180981707/>

The African Diplomats Who Protested Segregation in the U.S.
<https://www.smithsonianmag.com/history/the-african-diplomats-who-protested-segregation-in-the-us-180981682/>

Archaeology

Wreckage of lost WWII sub discovered nearly 80 years later

<https://www.militarytimes.com/news/your-navy/2023/02/17/wreckage-of-lost-wwii-sub-discovered-nearly-80-years-later/>

New Easter Island statue found in volcanic crater's dry lake

https://apnews.com/article/moai-statue-rapa-nui-easter-island-807e5de7b5cd006e73ce57402bfce302?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwAR1a4Ty_1DLw5f8rymTkEpug0eP5pdI8kRVy031lyCYY1eS-A-SFdSvddAM

Heritage on the brink: Historic homes, temples are fighting climate change

https://www.hindustantimes.com/lifestyle/art-culture/heritage-on-the-brink-historic-homes-temples-are-fighting-climate-change-101676658264759.html?fireglass_rsn=true#fireglass_params&tabid=a4e5f856a42c7dac&start_wit_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Clues to Bronze Age cranial surgery revealed in ancient bones

<https://www.npr.org/sections/health-shots/2023/02/22/1158721573/clues-to-bronze-age-cranial-surgery-revealed-in-ancient-bones?sc=18&f=1001>

Archaeological study of 24 ancient Mexican cities reveals that collective forms of governance, infrastructural investments, and collaboration all help societies last longer

<https://www.eurekalert.org/news-releases/981007>

Archaeologists Discover Wooden Spikes Described by Julius Caesar

<https://www.smithsonianmag.com/smart-news/roman-wooden-spikes-barbed-wire-julius-caesar-180981727/>

Steel was being used in Europe 2900 years ago

<https://www.sciencedaily.com/releases/2023/02/230228154510.htm>

Peru police find pre-Hispanic mummy in ex-delivery man's bag

<https://phys.org/news/2023-02-peru-police-pre-hispanic-mummy-ex-delivery.html>

Scientists may have solved an old Puebloan mystery by strapping giant logs to their foreheads

<https://www.popsci.com/environment/chaco-canyon-pueblo-engineering/>

Archaeologists discover homes of Europe's first monument makers

<https://phys.org/news/2023-02-archaeologists-homes-europe-monument-makers.html>

Peru's Lost Temple

<https://www.archaeology.org/issues/503-2303/digs/11215-digs-peru-moche-temple>

Medieval synagogue that predates the Inquisition found hidden under Spanish nightclub

<https://www.livescience.com/medieval-synagogue-that-predates-the-inquisition-found-hidden-under-spanish-nightclub>

Egyptology

Scientists reveal hidden corridor in Great Pyramid of Giza

<https://www.middleeastmonitor.com/20230302-scientists-reveal-hidden-corridor-in-great-pyramid-of-giza/>

General Science

Nothing to report

Physics, Earth and Space Sciences

Planetary scientist lays out arguments for sending a dedicated probe to Uranus
<https://phys.org/news/2023-02-planetary-scientist-lays-arguments-dedicated.html>

Largest asteroid ever to hit Earth was twice as big as the rock that killed off the dinosaurs
https://www.livescience.com/vredefort-asteroid-bigger-than-expected?utm_source=facebook.com&utm_campaign=socialflow&utm_content=livescience&utm_medium=social&fbclid=IwAR3xnvYHc-C1Bgbu1WkhYWjIHCDyehLTGy5A-Vz9qH01RYSNdjhw16jzT0&fireglass_rsn=true#fireglass_params&tabid=aa004b940125e616&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Space community considers launching Moon timezone
https://www.axios.com/2023/02/28/moon-timezone?utm_campaign=editorial&utm_medium=social&utm_source=twitter&fireglass_rsn=true#fireglass_params&tabid=ada99a7ce4c53931&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

NASA names solar physicist as agency's science chief
https://www.reuters.com/lifestyle/science/nasa-name-first-woman-agencys-science-chief-sources-say-2023-02-27/?taid=63fd63abd762f800017e41c6&utm_campaign=trueanthem&utm_medium=trueanthem&utm_source=twitter&fireglass_rsn=true#fireglass_params&tabid=a86b64e32265a3a2&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

New Space Radar Will Hunt Planet-Threatening Asteroids
https://www.scientificamerican.com/article/new-space-radar-will-hunt-planet-threatening-asteroids/?fbclid=IwAR1gwJaZh2czguMilGaU5dy0ZQMqDPMhU1ISIGAIL7h8znlXLM8sYnY_fio

SpaceX launches its 9th crewed mission as it heads to space station
<https://www.npr.org/2023/03/02/1160558797/spacex-launches-its-9th-crewed-mission-as-it-heads-to-space-station?sc=18&f=1001>

NASA confirms humanity can deflect killer asteroids with rockets — but only if we have years to prepare
https://www.livescience.com/nasa-confirms-humanity-can-deflect-killer-asteroids-with-rockets-but-only-if-we-have-years-to-prepare?utm_campaign=socialflow&utm_source=facebook.com&utm_medium=social&utm_content=livescience

Half of all active satellites are now from SpaceX. Here's why that may be a problem
<https://www.sciencenews.org/article/satellites-spacex-problem-space-pollution>

Meteorite crashes in South Texas causing startling boom, authorities say
https://www.nbcnews.com/news/us-news/meteorite-crashes-south-texas-causing-startling-boom-authorities-say-rcna71165?cid=sm_npd_nn_fb_ma&fbclid=IwAR3SdM4TyzqysyluRPZCGYOecGClkJSYvE0xbbQBgZ58eVFGleSdL8eJF8&fireglass_rsn=true#fireglass_params&tabid=a88321fc923267dd&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Scientists have discovered a new core at the center of the Earth
https://www.washingtonpost.com/climate-environment/2023/02/24/new-earth-inner-core-layer-metallic-ball/?utm_campaign=wp_main&utm_medium=social&utm_source=facebook&fbclid=IwAR0nblLHBiF672ADT4wQILMiWJsjumuso5C6uP7YwVHZczgLv_yUn81z_M

Leonardo da Vinci's forgotten experiments explored gravity as a form of acceleration
<https://phys.org/news/2023-02-leonardo-da-vinci-forgotten-explored.html>

The Webb telescope finds surprisingly massive galaxies from the universe's youth
<https://www.npr.org/2023/02/22/1158793897/webb-telescope-huge-early-galaxies-big-bang?sc=18&f=1001>

Most detailed geological model reveals Earth's past 100 million years
<https://www.eurekalert.org/news-releases/981069>

Flat, pancake-sized metalens images lunar surface in an engineering first
<https://phys.org/news/2023-03-flat-pancake-sized-metalens-images-lunar.html>

Scientists discover answer to the mystery of cloudy filters on satellites
<https://phys.org/news/2023-03-scientists-mystery-cloudy-filters-satellites.html>

Environment, Climate Change and Alternative Energy Sources

Nev. monument will shield sacred tribal land — from renewables

https://www.eenews.net/articles/nev-monument-will-shield-sacred-tribal-land-from-renewables/?utm_content=buffercb89d&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer&s=09

Biological, Genetics and Medical Sciences

Dead whales on the east coast fuel misinformation about offshore wind development

https://www.npr.org/2023/02/25/1159025632/dead-whales-east-coast-misinformation-offshore-wind?utm_medium=social&utm_source=twitter.com&utm_campaign=npr&utm_term=nprnews&fireglass_rsn=true#fireglass_params&tabid=a5fdb89f32ecaa54&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

HIV patient appears cured after stem cell transplant

https://www.cbsnews.com/news/hiv-cured-after-stem-cell-bone-marrow-transplant-dusseldorf-patient-germany/?ftag=CNM-00-10aab6a&linkId=202585121&fbclid=IwAR0w3M209FOq6Hipgu3m1StuDYp8DG_OTiZvdFNC-vi2nELBSM2Vh2qiMF0

Spinal stimulation can improve arm and hand movement years after a stroke

<https://www.npr.org/sections/health-shots/2023/02/20/1158000658/spinal-stimulation-can-improve-arm-and-hand-movement-years-after-a-stroke?sc=18&f=1001>

Toothed whales catch food in the deep using vocal fry

<https://www.eurekalert.org/news-releases/980837>

Vaccine Makers Are Preparing for Bird Flu

<https://www.scientificamerican.com/article/vaccine-makers-are-preparing-for-bird-flu/>

Other

Mexican president posts photo of what he claims is an elf

https://www.nbcnews.com/news/world/mexican-president-posts-photo-elf-rcna72413?utm_campaign=trueanthem&utm_medium=trueanthem&utm_source=facebook&fbclid=IwAR0I8qeN4MrDPmvwFFdI5AL-tbT8saUGmku84lvYV4IcLrHL9t9yTSih1tY&branch_match_id=1136724287994876252&branch_referrer=H4sIAAAAAAAAAA8soKSkottLXz0tKzkstL9ZLLCjQy8nMy9Y3zwl1Ma4MLwqsSLJPS0rOyUyx9Sx3DDLwtChM9TPxLXIjyC0rd3NL8TR19NEtSQqxKE4Mdc%2FNLRUwySmLDDPxTPYp8vCxLLGsDAnOzDAsiQQACXXhNWkAAAA%3D&fireglass_rsn=true#fireglass_params&tabid=ab0067ec891c0b4b&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Tribal colleges are vital, students say

<https://ictnews.org/news/tribal-colleges-are-vital-students-say>

Additional Informational

UNESCO, PROTECTING UNDERWATER CULTURAL HERITAGE: Celebrating 20 years of UNESCO's action

<https://en.unesco.org/underwater-heritage>

Numerical Analysis of The Chicxulub Asteroid Event Aftermath will Help Predict Tsunami Impact

<https://asteroidday.org/news-updates/numerical-analysis-of-the-chicxulub-asteroid-event-aftermath-will-help-predict-tsunami-impact/>

How the Chelyabinsk Blast Changed the Way Humanity Deals with Asteroid Threats

<https://asteroidday.org/news-updates/how-the-chelyabinsk-blast-changed-the-way-humanity-deals-with-asteroid-threats/>

International Science Council Newsletter

<https://us5.campaign-archive.com/?e=725b365f54&u=2e9b648776114e2888e7ea8c5&id=28c8ade77b>

How Iceland could have a starring role as a sustainable alternative protein exporter to Northern Europe

http://www.eng.cam.ac.uk/news/how-iceland-could-have-starring-role-sustainable-alternative-protein-exporter-northern-europe?fireglass_rsn=true#fireglass_params&tabid=a519bcd61f9c9b47&start_with_session_counter=3&application_server_address=isolation1-us-west-2.wss.prod.fire.glass

Can Amazon Countries Save the Rain Forest?

https://www.cfr.org/backgrounder/can-amazon-countries-save-rain-forest?utm_medium=social_owned&utm_source=tw&fireglass_rsn=true#fireglass_params&tabid=aaa043d480f4663b&start_with_session_counter=3&application_server_address=isolation1-us-west-2.wss.prod.fire.glass

NOVA, Ancient Builders of the Amazon- Video

<https://www.youtube.com/watch?v=dY82nZTxXQ4>

A 23,000-year-old southern Iberian individual links human groups that lived in Western Europe before and after the Last Glacial Maximum

<https://www.nature.com/articles/s41559-023-01987-0>