

Weekly Science Report

October 27, 2023

“The Chinese use two brush strokes to write the word 'crisis.' One brush stroke stands for danger: the other for opportunity. In a crisis, be aware of the danger - but recognize the opportunity.”

President John F. Kennedy

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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

Study shows Neanderthals inherited at least 6% of their genome from a now-extinct lineage of early modern humans

<https://phys.org/news/2023-10-neanderthals-inherited-genome-now-extinct-lineage.html?fbclid=IwAR1hRbWjO7HI6zjKu28cRLMJwqn4s8oPamOgJ3HKQtM67flEmerpliX4RQU>

Did Humanity Really Arise in One Place?

<https://www.sapiens.org/archaeology/human-evolution-east-africa/?fbclid=IwAR1scUPHHXl9Xy76F6GxwiU0weMyjM8pWD86YBIZTuUG5wHUsHw2sg1qi4I>

Neanderthals hunted—and revered—cave lions

https://www.science.org/content/article/neanderthals-hunted-and-revered-cave-lions?utm_medium=ownedSocial&utm_campaign=NewsfromScience&utm_source=Facebook&fbclid=IwAR0LCuFZRPmAnIDU8OQwgact2b4C_lfq9175GZ18wZyio58tXJrwnTw0mJM

This Australian behemoth is officially the largest dinosaur on the continent

https://www.popsci.com/science/dinosaur-bones-australia-confirm-largest-dinosaur-species/?fbclid=IwAR1bj57-oKXOWp_7L06yZPnYg9o-btnDdAK_iPaKpDMWYiRpzmw-tUiEhL4

Scientists finally solve mystery of why Europeans have less Neanderthal DNA than East Asians

<https://www.livescience.com/archaeology/mystery-of-why-europeans-have-less-neanderthal-dna-than-east-asians-finally-solved#:~:text=New%20research%20suggests%20the%20reason,feet%20of%20migrating%20early%20farmers.&text=A%20wave%20of%20migrating%20farmers,do%2C%20a%20new%20study%20finds.>

A nutrient-rich food that once largely disappeared from Western diets was a staple of early Europeans, study finds

https://www.cnn.com/2023/10/17/europe/early-europeans-seaweed-dental-plaque-scn/index.html?utm_content=2023-10-22T03%3A00%3A09&utm_term=link&utm_source=fbCNNi&utm_medium=social&fbclid=IwAR00VAFHK4LKnXXlszSfyJWaR1AhbYVuwg75IKLrstLTneo9naE1QX77iOY

9,000-Year-Old Necklace Redefines Neolithic Culture

<https://greekreporter.com/2023/10/16/neolithic-necklace-define-culture/>

Ancient Siberian cave hosted Neanderthals, Denisovans, and modern humans—possibly at the same time

https://www.science.org/content/article/ancient-siberian-cave-hosted-neanderthals-denisovans-and-modern-humans-possibly-same?utm_campaign=SciMag&utm_source=Facebook&utm_medium=ownedSocial&fbclid=IwAR1wYEv2eF3AEPV0mjCRKHkaXJ70Y_JtsrFKxNUX4NiACjZ0tvB0yYZ8NQ

Who were the first modern humans to settle in Europe?

<https://phys.org/news/2023-10-modern-humans-europe.html>

Neanderthal Stone Tools Discovered in Poland

<https://www.archaeology.org/news/11862-231026-poland-neanderthal-tools>

History

Gangsters are the villains in 'Killers of the Flower Moon,' but the biggest thief of Native American wealth was the US government

<https://theconversation.com/gangsters-are-the-villains-in-killers-of-the-flower-moon-but-the-biggest-thief-of-native-american-wealth-was-the-us-government-207700>

UNESCO Has Teamed Up With Interpol to Build a Virtual Museum of Stolen Cultural Artifacts

<https://news.artnet.com/art-world/unesco-virtual-museum-stolen-cultural-objects-2374871>

Painting stolen in art heist more than 30 years ago returned to Glasgow museum

<https://www.bbc.com/news/entertainment-arts-67080739>

Oklahomans concerned law impacts teaching of Osage murders

https://ictnews.org/news/oklahomans-concerned-law-impacts-teaching-of-osage-murders?fbclid=IwAR3cINs-KLCcK9Fud1INds9polXrAPEWorvCgtovKBOQt3-ZHPEsbsFEF_c

'The American Buffalo' traces fall and rise of a 'sacred relationship'

<https://ictnews.org/news/the-american-buffalo-traces-fall-and-rise-of-a-sacred-relationship?fbclid=IwAR1Psw5t0vueOpUJQ7Y8S5CoTqEEkd7T4AnKxrN5ShZDjsVH57DQOymGBHww>

Ancestral homelands in Pennsylvania

https://ictnews.org/news/ancestral-homelands-in-pennsylvania?fbclid=IwAR2IDJIQ4p0pK4ljaWP_pwDz-TJbOETthN8Ks4fMghs7nIn8QU12PyoRCAE

The Globe-Trotting Scholar Who Unlocked the Secrets of the Aztecs

https://www.smithsonianmag.com/history/zelia-nuttall-globe-trotting-scholar-unlocked-secrets-aztecs-180983049/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10232023&utm_content=new&fbclid=IwAR2klvtqRYSGolpQNeym-KLldD5gWJIHAoz6NdicC39kHOHZqTwPEuCew

Rodin Sculpture Has Been Missing From Scottish Museum Collection for Nearly 75 Years

https://www.smithsonianmag.com/smart-news/rodin-sculpture-has-been-missing-from-scottish-museum-collection-for-nearly-75-years-180983122/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10232023&utm_content=new&fbclid=IwAR2CSWx_aayTv_aHFYRQK4b9bSCLqOvhDsM8Ym_uoA56T6KK3Pu_u-xoHVA

Confederate monument melted down to create new, more inclusive public art

<https://www.npr.org/2023/10/26/1208603609/confederate-general-robert-e-lee-monument-melted-down-charlottesville-virginia>

The Fram: A Victorian expedition to the North Pole that was as brilliant as it was bonkers

https://www.livescience.com/planet-earth/the-fram-the-first-extraordinary-expedition-to-the-north-pole?utm_content=livescience&utm_campaign=socialflow&utm_medium=social&utm_source=facebook.com&fbclid=IwAR0Rxd_zGYIoDsEPUkBoAPUGF8OzLdtaUeYMY6p-G0iy33SKACTrno6wAUg

Archaeology

4,000-year-old rock with mysterious markings becomes a "treasure map" for archaeologists

<https://www.cbsnews.com/news/saint-belec-slab-treasure-map-archaeologists-bronze-age/>

Missing submarine found 83 years after it was torpedoed in WWII battle

<https://www.cbsnews.com/news/missing-submarine-found-83-years-after-it-was-torpedoed-in-wwii-battle/>

Ancient face carvings exposed as Amazon water level drops to record lows

<https://www.cnn.com/style/brazil-amazon-face-carvings-scn/index.html>

Skeletons unearthed in 'incredibly rare' 5,000-year-old Scottish tomb

<https://www.cnn.com/style/article/tomb-neolithic-skeletons-intl-scli-scn/index.html>

'World-class aquifer' enabled ancient African kingdom to thrive in the Sahara for hundreds of years

https://www.livescience.com/archaeology/world-class-aquifer-enabled-ancient-african-kingdom-to-thrive-in-the-sahara-for-hundreds-of-years?utm_medium=social&utm_content=livescience&utm_campaign=socialflow&utm_source=facebook.com&fbclid=IwAR3dMq6pRTk8xEIwhM0BuOFEJPTuNuZhuGe2MBs7EF1uphnRdDsDfBPVxA

Earthquake reveals giant Aztec snakehead beneath Mexico City university

https://www.livescience.com/archaeology/earthquake-reveals-giant-aztec-snakehead-beneath-mexico-city-university?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fbclid=IwAR3uNs0ScaXR38MKHkk0QY2bsEhCJQLDadQj8QvBu2HoO-QPD2IMG7D_tZI

Silicon Sculpture Depicts Peru's So-Called Inca Ice Maiden

<https://www.archaeology.org/news/11861-231026-peru-facial-reconstruction>

Spy satellites reveal hundreds of undiscovered Roman forts

<https://phys.org/news/2023-10-spy-satellites-reveal-hundreds-undiscovered.html>

New dating of cave art reveals history of Puerto Rican people

<https://phys.org/news/2023-10-dating-cave-art-reveals-history.html>

Byzantine Abbey Identified in Black Sea Port City

<https://www.archaeology.org/news/11842-231017-turkey-byzantine-abbey>

Researchers help study and catalog museum's ancient Greek coins

<https://phys.org/news/2023-10-museum-ancient-greek-coins.html>

Workers Unearth 19th-Century Shipwreck Beneath a Road in Florida

<https://www.smithsonianmag.com/smart-news/florida-road-workers-uncover-19th-century-shipwreck-180983113/>

Egyptology

Did Ancient Egyptians Know Meteorites Came From Space?

https://www.smithsonianmag.com/science-nature/do-hieroglyphic-texts-reveal-that-ancient-egyptians-knew-meteorites-came-from-the-sky-180983039/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10172023&utm_content=new&fbclid=IwAR1oCQnWkU8mJcZD7GMc_OS2ezGvQUQictdHKTxOFQ-WlxPnhMHZJIDB-WY

Hidden rooms found in Egyptian pyramid may contain pharaoh's riches, archaeologists say

https://www.independent.co.uk/news/science/archaeology/egyptian-pyramid-hidden-room-riches-b2432235.html?utm_medium=Social&utm_source=Facebook&fbclid=IwAR16wUI6GKz_Lc_KpoJ6OfIW2I7yixAIANbum3-T3bZ3Esa9jjAjz_uGKs#Echobox=1697728004

Hundreds of Unopened Wine Jars Unearthed in Egyptian Queen's Tomb

https://www.smithsonianmag.com/smart-news/archaeologists-find-remnants-of-5000-year-old-wine-at-egyptian-queens-tomb-180983107/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10202023&utm_content=new&fbclid=IwAR0FN8nG6nKW38S2Owfgdud1XBigqAMlx0k-S9wW2vwJ3UhiREf9r0abRqM

General Science

Using large language models to enable open-world, interactive and personalized robot navigation
<https://techxplore.com/news/2023-10-large-language-enable-open-world-interactive.html>

Physics, Earth and Space Sciences

'Frozen in time' landscape discovered under Antarctic ice

https://phys.org/news/2023-10-frozen-landscape-antarctic-ice.html?fbclid=IwAR1BHtNKmS5cOoQtaeBx3TYzNUjShYxFgLIUEzZcGcyZg--rgdOjcJG0jJ8#google_vignette

Solar farms in space are possible, say scientists

https://techxplore.com/news/2023-10-solar-farms-space-scientists.html?fbclid=IwAR3v4SvmzF3Sk4issLfsK3xh1pQ2fH9hNm9vpZ7gi1xfatBkycLMtcDyPJM#google_vignette

China says it discovered potentially vast amounts of a rare superconducting material

https://www.popsci.com/technology/china-niobium-discovery-mine/?fbclid=IwAR0sMdDWelKAje44m-QFtVrpV7aDDCDyHd836_CBGKMbM3SxLIAz0a0I14

Oldest radio burst ever found could tell us what exists between galaxies

<https://www.popsci.com/science/oldest-fast-radio-burst-8-billion-years/?fbclid=IwAR0PPFz-ol-Caop9fQcu65-xLeAUz3dLrrqFGSSIOwT5um07pLpH260hevQ>

A NEW HOPE? TAMING THE SATELLITE SWARM

https://skyandtelescope.org/astronomy-news/a-new-hope-taming-the-satellite-swarm-in-our-skies/?fbclid=IwAR3HcNVY6DsVk7rTnvvGgCajbDOKNKAyqjNf6BiUSp_bs77YMZJI-xyuQJE

Researchers Build First AI Tool to Discover Supernovas

<https://learningenglish.voanews.com/a/researchers-build-first-tool-to-discover-supernovas/7318435.html>

Chinese scientists' new map of the Milky Way turns the tables on cosmic radiation theories

<https://www.scmp.com/news/china/science/article/3238584/chinese-scientists-new-map-milky-way-turns-tables-cosmic-radiation-theories>

Astronomers carry out largest ever cosmological computer simulation

<https://phys.org/news/2023-10-astronomers-largest-cosmological-simulation.html>

Virgin Galactic Teams Up with NASA Pluto Scientist for Edge-of-Space Exploration

<https://gizmodo.com/virgin-galactic-nasa-pluto-scientist-space-tourism-1850946225>

In 1952, a group of three 'stars' vanished—astronomers still can't find them

<https://phys.org/news/2023-10-group-stars-vanishedastronomers.html>

Europe Reluctantly Chooses SpaceX to Launch Its GPS Satellites

<https://gizmodo.com/europe-spacex-contract-launch-galileo-gps-satellites-1850949500>

NASA's OSIRIS-REx mission officially surpasses asteroid sample size goal

<https://www.space.com/osiris-rex-asteroid-sample-passes-goal>

Two groups look at the economic viability of mining asteroids

<https://phys.org/news/2023-10-groups-economic-viability-asteroids.html>

Unprecedented discovery seems to defy fundamental astronomical theories

<https://www.cnn.com/2023/10/05/world/webb-telescope-jumbos-orion-nebula-sc/index.html>

Moon may be '40m years older' than previously thought, researchers say
https://www.theguardian.com/science/2023/oct/23/moon-may-be-40m-years-older-than-previously-thought-researchers-say?CMP=fb_gu&utm_medium=Social&utm_source=Facebook&fbclid=IwAR0NLPLZGmeks1bSXd_Crz6lLP6GYSwxaxuEAXVxUWA UIG2uNqQ8UYLx6E#Echobox=1698068747

Venus had Earth-like plate tectonics billions of years ago, study suggests
<https://www.eurekalert.org/news-releases/1006018>

Environment, Climate Change and Alternative Energy Sources

Scientists develop new method to create stable, efficient next-gen solar cells
<https://phys.org/news/2023-10-scientists-method-stable-efficient-next-gen.html>

Biological, Genetics and Medical Sciences

21 species have been declared extinct, the U.S. Fish and Wildlife Service says
<https://www.npr.org/2023/10/17/1206664432/21-species-extinct-fish-wildlife-birds>

Shark Stabbed Through the Heart and a Swordfish Is to Blame
https://www.smithsonianmag.com/smart-news/swordfish-stabs-shark-heart-180976170/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10192023&utm_content=archival&fbclid=IwAR1j-eF-ZbsNF2pFBqopysuwThmAzhZS_w9o0j_YpX92eTd1Plf1hiBStAQ

Orcas that hunted alongside humans might be extinct
https://www.livescience.com/animals/orcas-that-hunted-alongside-humans-might-be-extinct?utm_medium=social&utm_content=livescience&utm_source=facebook.com&utm_campaign=socialflow&fbclid=IwAR0i3v7nExsl87YTVhqmB_TEqutocbsV_CpCGcnUGalLJFMu6H-uOyBsCk

Going viral: gene therapy spreads far and wide
https://www.nature.com/articles/d42473-023-00145-1?utm_medium=paid_social&utm_source=facebook&utm_content=image&utm_term=null&utm_campaign=MLSR_BRCON_ENGM_GL_MPSS_NWCHB_CF-Oct19&fbclid=IwAR1OlpNZNYoMIXa16coqITH0CjCVE5l1n7AGaf7mPRWYZw_rmJfk7F9F6FM

Mice thrive at 6700 meters up—higher than any mammals were thought able to live
<https://www.science.org/content/article/mice-thrive-6700-meters-higher-any-mammals-were-thought-able-live>

A new RSV shot could help protect babies this winter — if they can get it in time
<https://www.npr.org/sections/health-shots/2023/10/25/1208322069/a-new-rsv-shot-could-help-protect-babies-this-winter-if-they-can-get-it-in-time?sc=18&f=1001>

AI could help doctors make better diagnoses
<https://www.npr.org/sections/health-shots/2023/10/25/1208326892/ai-help-doctors-make-better-diagnoses-uptodate-artificial-intelligence?sc=18&f=1001>

Protein root discovery seals future of climate-proof plants
<https://phys.org/news/2023-10-protein-root-discovery-future-climate-proof.html>

Other

OUT THERE: MUTUAL UNIDENTIFIED FLYING OBJECT NETWORK DISCUSSES UFOS
<https://www.cincinnati.com/article/out-there-mutual-unidentified-flying-object-network-discusses-ufos/?fbclid=IwAR3Hnj1K3LyB0DkRvxBVeYK65txwP7QUZ-NzxVNha4-TPy8KuXwcuLJRDkA>

Finding your place in the galaxy with the help of Star Trek
https://www.npr.org/2023/10/14/1205714903/star-trek?utm_medium=social&utm_source=facebook.com&utm_term=nprnews&utm_campaign=npr&fbclid=IwAR2G3pEetMALu9RcNwvMFkXrDGmPyAcmcFpNdC2wg1Y-8LjQQmqW36_26d8

Is this the Loch Ness Monster? 'Clearest evidence' yet captured by stunned onlooker
<https://nypost.com/2023/10/19/is-this-the-loch-ness-monster-clearest-evidence-yet-captured-by-stunned-onlooker/>

Additional Informational

Forbidden Archeology Newsflash - Oct 2023

<https://www.mcremo.com/flash21.html>

These 450 Books Were Banned in Iowa

https://pen.org/books-banned-in-iowa/?utm_source=twitter&utm_medium=social&utm_campaign=social-pug

How do humans try to communicate with aliens?

<https://www.planetary.org/articles/how-do-humans-try-to-communicate-with-aliens?fbclid=IwAR0jiGGWbVizNRnm7pRPuZVTcrEvNYV-G5ai0-P0svHTElcDalMrjDTV4a8>

Craniofacial reconstruction of the Indus valley civilization individuals found at 4500-year-old Rakhigarhi cemetery

<https://researchonline.ljmu.ac.uk/id/eprint/11497/8/Indus%20Valley%20paper%20-%20accepted%20version.pdf?fbclid=IwAR0xbRo7bQEIbbg0fibzOSXovOatU0NSBe79rTf8YzBgWEdWqHuN80tXlqQ>

Neanderthals carried genes acquired from ancient interactions with 'cousins' of modern humans

<https://penntoday.upenn.edu/news/neanderthals-carried-genes-acquired-ancient-interactions-cousins-modern-humans>

Future U.S. Coast Guard Museum Website

<https://www.coastguardmuseum.org/>

Exploring Space and Asteroids: Asteroid Foundation's Autumn 2023 Highlights

<https://asteroidday.org/resources/asteroid-learning/exploring-space-and-asteroids-asteroid-foundations-autumn-2023-highlights/>

Digital Florentine Codex: An Encyclopedia of 16th Century Indigenous Mexico

<https://florentinecodex.getty.edu/?fbclid=IwAR2AmxcylrCtYmyDLqukZUf625bqZ9xkgP8bg99SdscDzS6pN7aagYlpCT4>