

Weekly Science Report

July 12, 2024

“And so, my fellow Americans: ask not what your country can do for you - ask what you can do for your country. My fellow citizens of the world: ask not what America will do for you, but what together we can do for the freedom of man.”

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

Aboriginal ritual passed down over 12,000 years, cave find shows

https://phys.org/news/2024-07-aboriginal-ritual-years-cave.html?fbclid=IwZXh0bgNhZW0CMTEAAR0lb1TyR3Zc-A_LF4lleks22G_mzLQFP8iuRq35Rswan0Zcyt5hG2WhQsc_aem_nAYaduuGLedXszofFCuxiw

World's oldest artwork discovered in Indonesian cave

https://phys.org/news/2024-07-world-oldest-artwork-indonesian-cave.html?fbclid=IwZXh0bgNhZW0CMTEAAR32rqFNjMUF2IPOY9Ze7NAPyT7B1ri3MTtnw1VT6y_dQbrXdR2ptGHTLthg_aem_KCbIsqtsrsQ-hppypUJtaw&sfnsn=mo

Denisovans were living on the Tibetan plateau surprisingly recently, scientists say

https://www.cnn.com/2024/07/03/science/bone-analysis-denisovans-tibetan-plateau-scn/index.html?Date=20240704&Profile=CNN+International&utm_content=1720051208&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0NivADkG6YFNNU-mLKdxST_a6k0HIT3eNZGE35S8ghYjBYCAe5JEKY17Y_aem_grj_UeTyufphmah734qi-Q&sfnsn=mo

Giant Hand Axes Discovered in England Point to Prehistoric Humans' 'Strength and Skill'

https://www.smithsonianmag.com/smart-news/giant-hand-axes-discovered-in-england-point-to-prehistoric-humans-strength-and-skill-180982516/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=782024&utm_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR26GHg_qWFggkDqYwvecr42fX_CwStABocliwvLvrMqPKnHk7dysdmQZgQ_aem_QCdc-XHeu5fjMmqX68dg9g

Computational answers to riddles on stone: Advanced method for rock engraving analysis

https://phys.org/news/2024-07-riddles-stone-advanced-method-engraving.html?fbclid=IwZXh0bgNhZW0CMTEAAR2r4U3l6l7B2waNVHapIFPDmFrXavYDKFkKu38QmfjVdVRS8RwRabkeral_aem_AS46VHTi_P-Sj_v4ep9jJQ

'A history of contact': Geneticists are rewriting the narrative of Neanderthals and other ancient humans

https://phys.org/news/2024-07-history-contact-geneticists-rewriting-narrative.html?fbclid=IwZXh0bgNhZW0CMTEAAR0l6zE4KvCnRHP-msfA3G0mhb1uFIHf18a_ct4FNTI1ShhF0Lrl_Fss5o0_aem_563r49hcHjLXDPhq1XOvLw&sfnsn=mo

Archaeologists report earliest evidence for plant farming in east Africa

https://phys.org/news/2024-07-archaeologists-earliest-evidence-farming-east.html?fbclid=IwZXh0bgNhZW0CMTEAAR3PwnAcqDBNMTvYHXhTBcALUkzHDbjwQSqZEdgYDD5zqRNMtNU019OUjbc_aem_ASQnJDZ64m95k7Ke2vToXw&sfnsn=mo

Lion Man: The oldest known evidence of religious belief in the world

<https://www.livescience.com/archaeology/lion-man-the-oldest-known-evidence-of-religious-belief-in-the-world>

DNA analyses show the plague may have caused the downfall of Stone Age farmers

https://phys.org/news/2024-07-dna-analyses-plague-downfall-stone.html#google_vignette

New geological dating techniques place first European hominids in Iberian Peninsula 1.3 million years ago

<https://phys.org/news/2024-07-geological-dating-techniques-european-hominids.html>

History

Kānepō will return to Hawai'i after 20 years

<https://ictnews.org/news/k%C4%81nep%C5%8D-will-return-to-hawaii-after-20-years>

Parole denied for Indigenous activist Leonard Peltier

https://ictnews.org/news/parole-denied-for-indigenous-activist-leonard-peltier?fbclid=IwZXh0bgNhZW0CMTEAAR3oodjo_uacqsnZ_AEnvyUiN1uwUhiIPXUHXTINTI2wdrKMZw2IEAw9sZM_aem_gVf13XIOVX77mzPX4-9R_Q

A sacred boulder stolen to honor Kansas settlers was finally returned to the Kaw Tribe

https://www.kcur.org/news/2024-06-26/kaw-kanza-sacred-rock-lawrence-kansas-flint-hills-monument-tribe?fbclid=IwZXh0bgNhZW0CMTEAAR2S8e-LKmqj75D3b9EnY_bwrPlqy-3vMptRP9slla_b9XYVgR7zeUwTTsM_aem_p8oEwJ8J0DE_OJo3KCOnpj

We're (probably) wrong about origin of griffins

https://www.popsoci.com/environment/griffin-origin-story/?fbclid=IwZXh0bgNhZW0CMTEAAR0wFWAlaJJcrMZy9EsozZBgCx_B1_Zt9r6s-hjYyiqZG2EZ2ysDnKJy0Eco_aem_1E2gVc0y0eRwMCPzFyB7wg

'God's influencer': Carlos Acutis named first millennial saint following 2006 death

<https://www.usatoday.com/story/news/world/2024/07/01/carlos-acutis-millennial-saint-gods-influencer/74267977007/>

Last known survivors of Tulsa Race Massacre challenge Oklahoma high court decision

<https://apnews.com/article/tulsa-race-massacre-reparations-lawsuit-racial-injustice-cb616bdc1f57c269b3cec63baecf0008>

New study challenges drought theory for Cahokia exodus

https://phys.org/news/2024-07-drought-theory-cahokia-exodus.html?fbclid=IwZXh0bgNhZW0CMTEAAR2J3RjvGJi4K8Hx_5IYAdTvp2fASaMO97hsdn6zZqV4MjsEWsJiuorRc_aem_Lus6APnEH6zzk6dyeFpsLQ&sfnsn=mo

Museum staff 'devastated' as vandals target fort

<https://www.bbc.com/news/articles/cw4ypg4k5y5o>

Biden awards Medal of Honor to Union soldiers for covert Civil War mission

<https://www.axios.com/2024/07/03/biden-medal-of-honor-receipients-civil-war>

France's own Excalibur-like legendary sword disappears after 1,300 years wedged in a high rock wall

<https://www.cbsnews.com/news/france-excalibur-like-sword-durandal-disappears-after-1300-years/>

A Revolutionary War-era musket was stolen more than 50 years ago. It has been recovered and given to a Philadelphia museum

https://www.cnn.com/2024/07/07/style/stolen-firearm-returned-philadelphia-museum/index.html?Date=20240707&Profile=CNN&utm_content=1720360821&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0oU2OQA2FMJG6I7P4m7oOtNtYpVi5xQ1CKUul93CCdK49F9v4SjTW1S3s_aem_himEZZHzLIVqaldRwmzPXQ

North Dakota tribe goes back to its roots with a massive greenhouse operation

https://apnews.com/article/greenhouse-native-americans-north-dakota-83e812bc15090d73c8492b7904dddcc?fbclid=IwZXh0bgNhZW0CMTEAAR3mHg2FmBkiREiCe_mH88NswTSax5PZTJ-fUN4f1qLICq0aTriNEAhLZltc_aem_FxgMNA2BkAFv5Gq28G3bDQ

Mummified body of missing American climber found 22 years after he vanished in Peru
https://www.cbsnews.com/news/william-stampfl-mummified-body-us-mountaineer-found-vanished-peru-2002/?ftag=CNM-00-10aab6a&linkId=497295195&fbclid=IwZXh0bgNhZW0CMTEAAR23yKOO_oJ8oMClq2rQWGVyT7y0shzXrb4u2sikkEEyQJ7C_K7Gi-Ep0QE_aem_xRQDf8u729QbC3lINR117g

Louisiana plantation where historic slave revolt started now under Black ownership
https://www.npr.org/2024/07/09/nx-s1-4893179/louisiana-woodland-plantation-slave-revolt-black-ownership?utm_source=facebook.com&utm_term=nprnews&utm_medium=social&utm_campaign=npr&fbclid=IwZXh0bgNhZW0CMTEAAR1nuheHysIMCYHjgAuuHSWRXp3Ox8wD7beBMdzjcN_Lj4toqDRNTvS0_zko_aem_pM-Vi94gFKoLy1ZmOco_lw

Oklahoma social studies education to be reformed with help of conservative influencers
https://kfor.com/news/local/oklahoma-social-studies-education-to-be-reformed-with-help-of-conservative-influencers/?utm_campaign=socialflow&utm_medium=referral&utm_source=facebook.com&fbclid=IwZXh0bgNhZW0CMTEAAR0S-R1Mz19MQy7Dt_nNCGqS5dehoYRKgpYd-mCPFni7WoFr6XjD8r0qxl_aem_Wom8AF6Vi2LKMl6QqDhk-w

Right wing movements are growing in Europe. How do they differ from those in the U.S.?
<https://www.npr.org/2024/07/06/nx-s1-5026953/right-wing-movements-are-growing-in-europe-how-do-they-differ-from-those-in-the-u-s?ft=nprml&f=1001>

Iron Age plant remains tell new agricultural story in east Africa
https://www.popsoci.com/science/plant-farming-iron-age/?fbclid=IwZXh0bgNhZW0CMTEAAR1tGMoh--87-H80ZesQ4oDYc9n0xol3Bv5uelmvEGS16qCKc-9kDWA1D7Q_aem_3KaMYo7rl-lz-NZ46Q8r-g&sfnsn=mo

EXPLORING A FORGOTTEN JEWISH LAND
<https://archaeology.org/issues/january-february-2023/letters-from/ethiopia-beta-israel/#:~:text=The%20Semien%20Mountains%20in%20northern,and%20played%20important%20leadership%20roles.>

Five Things to Know About the Diamond Sutra, the World's Oldest Dated Printed Book
https://www.smithsonianmag.com/smart-news/Five-things-to-know-about-diamond-sutra-worlds-oldest-dated-printed-book-180959052/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=762024&utm_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR3106XyhoFa1ylqCgZSD5_61awka-JplIKvs46gaz5RYF4V3p65jnnIKZY_aem_uH2Lk5glVb82iC6nJ0a4aq&sfnsn=mo

Newly discovered link between Hercules, Israel suggests cultural exchange in region – study
<https://www.jpost.com/archaeology/article-809859>

How All-Female 'Juries of Matrons' Shaped Legal History
<https://www.smithsonianmag.com/history/how-all-female-juries-of-matrons-shaped-legal-history-180984647/>

Meet Vivian Maier, the Reclusive Nanny Who Secretly Became One of the Best Street Photographers of the 20th Century
<https://www.smithsonianmag.com/history/meet-vivian-maier-reclusive-nanny-street-photographer-20th-century-180984665/>

Archaeology

No lie: Perfectly preserved centuries-old cherries unearthed at George Washington's Mount Vernon

<https://apnews.com/article/george-washington-cherries-mount-vernon-archaeology-3f4eddfc27e771ff01fc346e2b91075c>

Woman discovers her \$3.99 thrift store vase, is actually a priceless 2,000-year-old Mayan artifact

<https://www.wusa9.com/article/news/local/dc/dc-woman-discovers-thrift-store-vase-is-ancient-2000-year-old-mayan-artifact/65-6ee5be4d-c711-4e45-8b05-56d8f7236f9d>

Archaeologists Unearth 600-Foot Prehistoric Monument During Highway Dig

[https://www.newsweek.com/archaeologists-unearth-600-foot-prehistoric-monument-during-highway-dig-1919806#:~:text=Archaeologists%20have%20unearthed%20a%20huge,Hradec%20Kr%C3%A1lov%C3%A9%20\(UHK\)%20announced.](https://www.newsweek.com/archaeologists-unearth-600-foot-prehistoric-monument-during-highway-dig-1919806#:~:text=Archaeologists%20have%20unearthed%20a%20huge,Hradec%20Kr%C3%A1lov%C3%A9%20(UHK)%20announced.)

Workers rely on medieval era tech to reconstruct the Notre Dame

https://www.popsci.com/technology/notre-dame-reconstruction-medieval-tools/?fbclid=IwZXh0bgNhZW0CMTEAAR3Pim8ggmNuEpzYKQS_DDAAIWZvQhncehOKkbfpm-rpgD8IDR-gjWgSgfc_aem_I7-JBoYvI1PiWQe585UBVg

Archaeologists in Chile race against time, climate change to preserve ancient mummies

<https://www.cbsnews.com/news/chile-mummies-climate-change-chincorro-arica-atacama-desert/>

Archaeologists find ancient temple and theater in Peru

https://phys.org/news/2024-07-archaeologists-ancient-temple-theater-peru.html?fbclid=IwZXh0bgNhZW0CMTEAAR2KE_s5EtmSSLi5uhG8Jg4iExvIZnL9zvTKUA03_N5ALMhXNhJ4FkcY08E_aem_sbuavOtlpBhRutcFJspGuQ#google_vignette

Ancient relic depicting Moses, Ten Commandments found in Austria, archaeologists say

https://www.cbsnews.com/news/ancient-relic-moses-ten-commandments-found-austria-archaeology/?tag=CNM-00-10aab6a&linkId=499681856&fbclid=IwZXh0bgNhZW0CMTEAAR17u4NmRwvpOxM3Cxz1sm9KxczCvN8W8QDMFLSIbh55kx3Yv5rZDV2EwHc_aem_IGVDgBnt9zmDJYxfVnMZFg

Ancient stone circles in Norway were hiding a dark secret: dozens of children's graves

<https://www.livescience.com/archaeology/ancient-stone-circles-in-norway-were-hiding-a-dark-secret-dozens-of-childrens-graves#:~:text=Several%20circles%20were%20placed%20around,pottery%20shards%20beneath%20those%20stones.&text=Now%2C%20a%20new%20analysis%20shows.between%20800%20and%20200%20B.C.>

Unveiling 1,200 years of human occupation in Canada's Arctic

<https://phys.org/news/2024-07-unveiling-years-human-occupation-canada.html>

Remains of hundreds of 7,000-year-old 'standing stone circles' discovered in Saudi Arabia

<https://www.livescience.com/archaeology/remains-of-hundreds-of-7000-year-old-standing-stone-circles-discovered-in-saudi-arabia>

Archaeologists discover one of the earliest Christian buildings in Bahrain

<https://phys.org/news/2024-07-archaeologists-earliest-christian-bahrain.html>

Archaeologists from Alberta and Sask. are studying a site this local historian stumbled upon

<https://saskatoon.ctvnews.ca/archaeologists-from-alberta-and-sask-are-studying-a-site-this-local-historian-stumbled-upon-1.6962177>

Mystery as 4,000-year-old axe-heads sent to museum

<https://www.bbc.com/news/articles/cydv07d7vdo>

Gold, silver artefacts unearthed while digging rainwater pits in Kerala

<https://www.indiatoday.in/india/kerala/story/kerala-gold-silver-found-while-digging-rainwater-pits-in-kannur-2566379-2024-07-13>

Archaeologists find ancient temple and theater in Peru

<https://phys.org/news/2024-07-archaeologists-ancient-temple-theater-peru.html>

Egyptology

Croc's deadly last meal in Ancient Egypt unearthed

<https://phys.org/news/2024-07-croc-deadly-meal-ancient-egypt.html>

General Science

Researchers distill the facts of a chemical separation process and upend a decades-old theory

https://phys.org/news/2024-06-distill-facts-chemical-upend-decades.html?fbclid=IwZXh0bgNhZW0CMTEAAR32eqVAcQoGKektWLTt_ajNQ7O0dQ9VZ17A_2qtP5OtTMaG_MSATT-0el_aem_ZmFrZWR1bW15MTZieXRlcw

Researchers create new class of materials called 'glassy gels'

https://phys.org/news/2024-06-class-materials-glassy-gels.html?fbclid=IwZXh0bgNhZW0CMTEAAR33ub4Doj3NHWT6-Nqz8VYUyElszVB4TTBO4yPuDhXD1pmDEE3hUqddImU_aem_ZmFrZWR1bW15MTZieXRlcw#google_vignette

Alternative Broadband Networks: Affordable Internet for the People, One Rooftop at a Time

<https://www.cnet.com/home/internet/features/alternative-broadband-networks-affordable-internet-for-the-people-one-rooftop-at-a-time/>

Lab-grown human brain tissue used to control robot

https://www.popsci.com/science/brain-tissue-robot/?fbclid=IwZXh0bgNhZW0CMTEAAR1SNnRvkzagBJumD7OsTK8e_wkvHfkEfH17E7Aca0gCEv_peqYARgjl8YM_aem_djd1ozLvXSIRKzBmwFO-Ow&sfnsn=mo

Physics, Earth and Space Sciences

A year after the Titan submersible implosion, investigators still don't have answers

<https://www.npr.org/2024/06/18/nx-s1-5008649/titan-submersible-implosion-anniversary-titanic>

Researchers find wave activity on Titan may be strong enough to erode the coastlines of lakes and seas

https://phys.org/news/2024-06-titan-strong-erode-coastlines-lakes.html?fbclid=IwZXh0bgNhZW0CMTEAAR0mAFqxHezFZU6JI0cS--gkKUgAskpy1NAi1hB9cUJdfnBbTaGtMmV_prM_aem_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo

It's International Asteroid Day, and astronomers have much to celebrate

https://www.space.com/international-asteroid-day-astronomers-celebrate?utm_source=twitter.com&utm_content=space.com&utm_campaign=socialflow&utm_medium=social

New study shows mysterious solar particle blasts can devastate the ozone layer, bathing Earth in radiation for years

https://phys.org/news/2024-07-mysterious-solar-particle-blasts-devastate.html?fbclid=IwZXh0bgNhZW0CMTEAAR0toEPgFeLZzrnjmEAaed2z5d3-Nxpme4A6SDtqfRvAu7xN-CG0q9Umr1I_aem_zTSmnUdX6ozmeJKy24zUaA

The Milky Way will be visible without a telescope this summer. Here are the key nights to watch for.

https://www.livescience.com/space/astronomy/the-milky-way-will-be-visible-without-a-telescope-this-summer-here-are-the-key-nights-to-watch-for?utm_medium=social&utm_campaign=socialflow&utm_source=facebook.com&utm_content=livescience&fbclid=IwZXh0bgNhZW0CMTEAAR1X99A9TLXNTEExVOB1xuUJHMcFrOjhrjzIBcTbnnit4rdn-sk-v8Om84BU_aem_XAj-3dKy-z7GkngoemgKTW

Crew of NASA's earthbound simulated Mars habitat emerge after a year

https://phys.org/news/2024-07-crew-nasa-earthbound-simulated-mars.html?fbclid=IwZXh0bgNhZW0CMTEAAR2p_LJLywqpC59fKIOa5fNxU5RRJT9U200mzAcY00qLsb6wgxhM7LiJhE0_aem_1z7XUF8wUDewgqpTSqMvuw

2 asteroids just zipped by Earth, and NASA caught footage of the action

https://www.space.com/nasa-goldstone-radar-system?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=space.com&fbclid=IwZXh0bgNhZW0CMTEAAR0lyHXrrohUYI5gyq-YqzmWZ-3IFOI5SvhvGrizPmeQUC6yO-r6ugJeCMc_aem_iv64n3-IXmo54P3kTCG6GQ

Astronomers find surprising ice world in the habitable zone with JWST data

https://phys.org/news/2024-07-astronomers-ice-world-habitable-zone.html?fbclid=IwZXh0bgNhZW0CMTEAAR0JL-KnvthS1uY0Cc5yZ3sZnm21JMYLJsnJ5YhFLI3-1ZlID4ySy38VPNw_aem_kD2gLIJf7sfGg8RIk-R6iw#google_vignette

Mars likely had cold and icy past, new study finds

https://phys.org/news/2024-07-mars-cold-icy.html?fbclid=IwZXh0bgNhZW0CMTEAAR0r8no5XhEyHWG-3qfvORcNVtxknYNAC4vYJ728By61QJFq_CAUx7at0s4_aem_C_EwqgXMgH8r15AsR1dS-A&sfnsn=mo

Unprecedented warming threatens Earth's lakes and their ecosystems

<https://phys.org/news/2024-07-unprecedented-threatens-earth-lakes-ecosystems.html>

SpaceX Falcon 9 second stage engine suffers catastrophic in-flight failure during Starlink launch
https://www.cbsnews.com/news/spacex-falcon-9-second-stage-engine-catastrophic-in-flight-failure/?ftag=CNM-00-10aab6a&linkId=502420256&fbclid=IwZXh0bgNhZW0CMTEAAR3cWpWybPWldvQ5oGL7R8a6RwbJ5cGkD6HBRcwak4VUfP_a_dh9MapQ9I0_aem_zK6rz3hAsFNoa-fo1qV-Q&sfnsn=mo

Scientists unveil prototype spacesuit system that recycles urine as drinking water
https://www.cnn.com/2024/07/12/science/prototype-spacesuit-recycles-urine-drinking-water-intl-scli/index.html?Date=20240712&Profile=CNM&utm_content=1720827003&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3TwptuUAQwfd3j2J1dMKsZw6Piqgf4jdm6fVd3EV_VlgxBrqd0LIOC_u_Y_aem_EOWoPM_OK3dpJVk0hHmGzg

Hubble finds evidence for rare black hole in Omega Centauri
<https://phys.org/news/2024-07-hubble-evidence-rare-black-hole.html>

Environment, Climate Change and Alternative Energy Sources

Biofuel groups envision ethanol-powered jets. But fueling the effort has not been easy

https://apnews.com/article/ethanol-jet-fuel-midwest-farmers-biofuel-aviation-4887d6ea6b92b0f1c1188ef98473fbd2?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0zxDSK_O6kQOiMvKeEyyBP9NncxXmq23ZF8myy5hE-MUhmZMJ-e1cj94A_aem_TjMidyAl6l2Qo1JTqh0RjQ

Bumpy road ahead as battery fears hit global EV rollout

https://www.scidev.net/global/scidev-net-investigates/bumpy-road-ahead-as-battery-fears-hit-global-ev-rollout/?utm_source=SciDev.Net&utm_medium=email&utm_campaign=14556231_2024-07-01%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm_i=1SCG.8NZNR.V1AOM.ZYMLA,1

Amazon sidesteps carbon offset standard Bezos helped fund

https://www.reuters.com/sustainability/amazon-sidesteps-carbon-offset-standard-bezos-helped-fund-2024-07-01/?fbclid=IwZXh0bgNhZW0CMTEAAR30uLS6rJEj8K1YbKJYtbky3elv1NvyBjTaLHGBQN_0IZoUzivpvr-ek8_aem_pqhUgE8BpP01S30IV7sLg&utm_medium=Social&utm_source=Facebook

'Nearly sustainable' hydrogen could cut ammonia production emissions by 95%

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