

Weekly Science Report

November 24, 2023

“When you were born, you cried, and the world rejoiced. Live your life so that when you die, the world cries and you rejoice.”

Cherokee Saying

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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/weeklysciencertp/>
- Twitter: <https://twitter.com/wklysciencertp>

News Articles

Paleontology, Evolution and Prehistoric Studies

Britons' tools from 560,000 years ago have emerged from gravel pits

https://www.sciencenews.org/article/stone-tools-england-hominids-gravel-pits?fbclid=IwAR16_vtmrNswTFD_x2Qbd3U900uTf-5R6IPfC1pFmQVNJ0VCA0t497BA4I

Stone Age Europeans mastered spear-throwers 10,000 years earlier than we thought, study suggests

https://www.livescience.com/archaeology/stone-age-europeans-mastered-spear-throwers-10000-years-earlier-than-we-thought-study-suggests?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fbclid=IwAR3wbhgyD_j_vDFJ_Z7njBHFZ8zJ-fHgtvp8ry19jJqx7JHWUjYNgW_9xS8

Archaeological skull fragments from Ukraine reveal early modern humans came from the East

<https://phys.org/news/2023-11-archaeological-skull-fragments-ukraine-reveal.html>

Hunter-gatherer approach to childcare suggests that the key to mother and child well-being may be many caregivers

<https://phys.org/news/2023-11-hunter-gatherer-approach-childcare-key-mother.html>

Orkney's lost tomb—how researchers made the Neolithic discovery

<https://phys.org/news/2023-11-orkney-lost-tomb-how-neolithic-discovery.html>

Australia's Oldest Known Bird Tracks Are 120 Million Years Old

<https://www.smithsonianmag.com/science-nature/oldest-fossil-bird-tracks-from-australia-hint-at-seasonal-migration-180983270/>

History

In America, national parks are more than scenic – they're sacred. But they were created at a cost to Native Americans

<https://theconversation.com/in-america-national-parks-are-more-than-scenic-theyre-sacred-but-they-were-created-at-a-cost-to-native-americans-215344>

'From the river to the sea' – a Palestinian historian explores the meaning and intent of scrutinized slogan

<https://theconversation.com/from-the-river-to-the-sea-a-palestinian-historian-explores-the-meaning-and-intent-of-scrutinized-slogan-217491>

A UNESCO World Heritage site with thousands of people living inside it

<https://www.cnbc.com/2023/11/12/a-unesco-world-heritage-site-with-thousands-of-people-living-inside-it.html>

The Vatican says priests can baptize transgender people

<https://www.npr.org/2023/11/10/1212319566/the-vatican-says-priests-can-baptize-transgender-people?sc=18&f=1001>

'Half American' explores how Black WWII servicemen were treated better abroad

<https://www.npr.org/2023/11/10/1211793420/half-american-explores-how-black-wwii-servicemen-were-treated-better-abroad?sc=18&f=1001>

Pope Francis removes a leading US conservative critic as bishop of Tyler, Texas

<https://apnews.com/article/pope-tyler-bishop-strickland-removed-0f9f0be7d5938b36d6e7ead8c33e5150>

A school where students can be 'unapologetically Indigenous'

https://ictnews.org/news/a-school-where-students-can-be-unapologetically-indigenous?fbclid=IwAR3yLDeCY1A9b6qEMjZ3CIQ79Ks5sgtmHa0YIqKXAmrFLX3WTGfqmX_Zpc

U.S. Army sets aside convictions of 110 Black soldiers arrested over 1917 Houston riots

<https://www.cbsnews.com/news/us-army-110-black-buffalo-soldiers-arrested-1917-houston-riots/?fbclid=IwAR15HhtA-Ve5EBJaC5tqD8S3lpyX3nChCxHE4w9N8fWVjmbG7WMAdas2tjk>

5-year-old 'Baby Jane Doe' buried in concrete is identified 35 years later; mother and boyfriend charged with murder

https://www.nbcnews.com/news/us-news/5-year-old-baby-jane-doe-buried-concrete-identified-mother-charged-rcna125052?cid=sm_npd_nn_fb_ma&fbclid=IwAR3edCAF9epp7dG2yMSx-H00-rZi2i0DbHd_xkTR40F-e3DKZ2JfrCBtZOA&branch_match_id=1195686125552732090&utm_source=facebook&utm_campaign=NBC%20News&utm_medium=social&branch_referrer=H4slAAAAAAAAA8soKSkottLXz0tKzkstL9ZLLCjQy8nMy9avCl3wNE0qMfZ0TbJPS0rOyUyx9Sx3DDJOTXF2dLNMLSgwT3E3qvQRrtD1MDDQLYrKNMo0cEnySlmvyA4JMjFw0001dvGOMvJKK3J2KonydwQAVLviC2kAAAA%3D

Britain bans prosecution of past Catholic and Protestant killings in Northern Ireland

<https://www.npr.org/2023/11/03/1202684198/northern-ireland-troubles-prosecutions-ban-new-law?sc=18&f=1001>

Long-lost \$26 million masterpiece found in kitchen heads to the Louvre after 4-year campaign

https://www.cnn.com/2023/11/16/style/cimabue-painting-louvre-scli-intl/index.html?Date=20231116&Profile=CNN%20International&utm_content=1700145006&utm_medium=social&utm_source=facebook&fbclid=IwAR1oERQIs9xREvOnInIRteASmhZ1BI6cYKU5QdgbeKTtKC3gEfq96neLJ5c

31,000 acres of ancestral land could be returned to Penobscot Nation

<https://www.pressherald.com/2023/11/01/ancestral-land-could-be-returned-to-penobscot-nation/#:~:text=A%20national%20land%20trust%20wants,National%20Monument%20from%20the%20south>

Unesco under fire for failing to prevent evictions at Angkor Wat temple site

<https://www.theguardian.com/global-development/2023/nov/14/unesco-under-fire-for-failing-to-prevent-evictions-at-angkor-wat-cambodia-temple-site>

She lived in a New York hotel for more than 40 years. But her life was a mystery

<https://www.npr.org/2023/11/15/1213003434/she-lived-in-a-new-york-hotel-for-more-than-40-years-but-her-life-was-a-mystery?sc=18&f=1001>

Oklahoma restricted how race can be taught. So these Black teachers stepped up

<https://www.npr.org/2023/11/22/1210081145/oklahoma-race--school-black-teachers?sc=18&f=1001>

60 years after JFK's assassination, the agent who tried to save him opens up

<https://www.npr.org/2023/11/22/1214479540/jfk-assassination-anniversary-60-years-clint-hill-secret-service-kennedy?sc=18&f=1001>

New Hampshire man had no car and no furniture, but died with a big secret, leaving his town millions

<https://apnews.com/article/new-hampshire-town-gift-frugal-millionaire-holt-994a9448623c51db5036b85dd563fb24>

Aztec and Maya civilizations are household names – but it's the Olmecs who are the 'mother culture' of ancient Mesoamerica

<https://theconversation.com/aztec-and-maya-civilizations-are-household-names-but-its-the-olmecs-who-are-the-mother-culture-of-ancient-mesoamerica-206380#:~:text=Many%20scholars%20regard%20the%20Olmec,architecture%2C%20sculpture%20and%20gods%20originated.>

Rosalynn Carter, transformative former first lady and mental health advocate, dies

<https://www.npr.org/2023/11/19/1019825478/former-first-lady-rosalynn-carter-dies?sc=18&f=1001>

The Vatican broadens public access to an ancient Roman necropolis

<https://www.npr.org/2023/11/18/1214000293/vatican-ancient-rome-necropolis?sc=18&f=1001>

Epic 1970s raft journey from Ecuador to Ballina still holds world record

https://www.abc.net.au/news/2023-11-20/epic-1970s-raft-journey-ecuador-to-ballina-retains-world-record/103118868?utm_medium=social&utm_content=sf270363278&utm_campaign=abc_news&utm_source=m.facebook.com&sf270363278=1&fbclid=IwAR3O5KwSI00porBzbQZTtTIhHvd_jAqDicGRgXvL7Fx0xHAJSi3ou1nl774

Artist's work rises from the ashes of a kibbutz attacked by Hamas onto a museum wall

<https://www.npr.org/2023/11/17/1213130640/kibbutz-beeri-israel-museum-artist?sc=18&f=1001>

Mapping project shows how extensive frontier violence was in Queensland

<https://phys.org/news/2023-11-extensive-frontier-violence-queensland.html>

The Real History Behind Empress Joséphine in Ridley Scott's 'Napoleon'

<https://www.smithsonianmag.com/history/the-real-history-behind-empress-josephine-in-ridley-scotts-napoleon-180983290/>

How Cabinets of Curiosities Laid the Foundation for Modern Museums

<https://www.smithsonianmag.com/history/how-cabinets-of-curiosities-laid-the-foundation-for-modern-museums-180983265/>

Inside the Autopsy Room: The Details Doctors Gathered About JFK's Assassination

<https://www.smithsonianmag.com/history/inside-the-autopsy-room-the-details-doctors-gathered-about-jfks-assassination-180947768/>

The Unsung Hero Who Saved Thousands of Children During the Holocaust

<https://www.smithsonianmag.com/history/the-unsung-hero-who-saved-thousands-children-during-the-holocaust-180983211/>

Archaeology

Hadrian's Wall was damaged when the Sycamore Gap tree came down, analysis finds

<https://www.npr.org/2023/11/13/1212725816/hadrians-wall-was-damaged-when-the-sycamore-gap-tree-came-down-analysis-finds?sc=18&f=1001>

Archaeologists discover previously unknown ancient language

<https://www.independent.co.uk/news/science/archaeology/turkey-hattusa-ancient-language-discovered-b2447473.html>

Archaeologists Discover Vast, Complex Prehistoric Society That Rewrites History

<https://www.vice.com/en/article/v7bqy3/archaeologists-discover-vast-complex-prehistoric-society-that-rewrites-history>

4,000-year-old tomb discovered in Norway may contain region's 1st farmers

https://www.livescience.com/archaeology/4000-year-old-tomb-discovered-in-norway-may-contain-regions-1st-farmers?utm_campaign=socialflow&utm_medium=social&utm_source=facebook.com&utm_content=livescience&fbclid=IwAR0uxv9XaBsZE8wqm6hSPbbA9G5iRz3RUi3PixaohUvMfLHgOmSNqFb3ew

Satellite images bring Serbia's hidden Bronze Age megastructures to light

https://www.science.org/content/article/satellite-images-bring-serbia-s-hidden-bronze-age-megastructures-light?utm_campaign=SciMag&utm_source=Facebook&utm_medium=ownedSocial&fbclid=IwAR0KLpzmyfPxYDeeYWBxzbOQhrTkM0hzsmPgadsu9xa_aH5jirLsHlFt-sY

2,800-year-old ivory carved with sphinx discovered in Turkey

https://www.livescience.com/archaeology/2800-year-old-ivory-carved-with-sphinx-discovered-in-turkey?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fbclid=IwAR2mBOBEvXC54tGHyBSXlytcTfdrUYtfnaXr_odA3oMvVXNFIVGxT4OHmXM

Headless skeletons in China represent the largest known headhunting massacre from Neolithic Asia

<https://www.livescience.com/archaeology/headless-skeletons-in-china-represent-the-largest-known-headhunting-massacre-from-neolithic-asia>

Archaeologists Discover Pyramid Built More Than 3,000 Years Ago

<https://www.newsweek.com/archaeologists-discover-pyramid-build-more-3000-years-ago-1842016>

Examining late medieval to early modern stone engravings created by prisoners in a castle dungeon

<https://phys.org/news/2023-11-late-medieval-early-modern-stone.html>

Late Prehistoric discovery turns archaeological assumptions on their head

<https://phys.org/news/2023-11-late-prehistoric-discovery-archaeological-assumptions.html>

Forensic scientists help locate missing Second World War pilot after eight decades

<https://phys.org/news/2023-11-forensic-scientists-world-war-decades.html>

Archaeologists May Have Found Traditional Home of Jesus' Apostles by the Sea of Galilee

<https://www.haaretz.com/archaeology/2023-11-08/ty-article-magazine/archaeologists-find-site-early-christians-venerated-as-apostle-peters-home/0000018b-ae8c-d3c1-a39b-beedd7520000>

Home of the “Book of Deer” Identified in Scotland

<https://www.archaeology.org/news/11911-231122-scotland-gaelic-manuscript>

Coin Cache Unearthed at Mohenjo-Daro

<https://www.archaeology.org/news/11912-231122-mohenjo-daro-coins>

A Stitch in Time

<https://www.archaeology.org/issues/531-2311/digs/11806-croatia-hand-sewn-boat>

A 1,400-year-old temple discovered at Suffolk royal settlement

<https://phys.org/news/2023-11-year-old-temple-suffolk-royal-settlement.html>

Egyptology

Radiocarbon dating meets Egyptology and Biblical accounts in the city of Gezer

<https://phys.org/news/2023-11-radiocarbon-dating-egyptology-biblical-accounts.html>

Sphinx may have been built from a natural rock feature eroded by wind, study claims

<https://www.livescience.com/archaeology/ancient-egyptians/sphinx-may-have-been-built-from-a-natural-rock-feature-eroded-by-wind-study-claims>

Rare tumor with teeth discovered in Egyptian burial from 3,000 years ago

<https://www.livescience.com/archaeology/ancient-egyptians/rare-tumor-with-teeth-discovered-in-egyptian-burial-from-3000-years-ago>

General Science

Army ants use collective intelligence to build bridges. Robots could learn from them
<https://www.npr.org/2023/11/21/1214246291/army-ants-architecture-science-robots-research?sc=18&f=1001>

Autonomous excavator constructs a 6-meter-high dry-stone wall
<https://www.eurekalert.org/news-releases/1008799>

Physics, Earth and Space Sciences

Space Force's Elusive Spaceplane Is Launching on SpaceX's Falcon Heavy for the First Time

https://gizmodo.com/space-force-spaceplane-spacex-falcon-heavy-1851007208?utm_campaign=Gizmodo&utm_content=Giz+Space&utm_medium=SocialMarketing&utm_source=facebook&fbclid=IwAR0GEW6Yz80_TPuS_o6GZDr0eCg94Om67XLIEcSoKDCFxZIMZrTVO8xBFjuA

'Planet killer' asteroids are hiding in the sun's glare. Can we stop them in time?

https://www.livescience.com/space/asteroids/the-sun-is-blinding-us-to-thousands-of-potentially-lethal-asteroids-can-scientists-spot-them-before-its-too-late?utm_medium=social&utm_source=facebook.com&utm_content=livescience&utm_campaign=socialflow&fbclid=IwAR0h0IUYNKP5BbLre3xr1YepWUujcZSUDfBJT2FTQV9sFzYIGnSfGpDWJFE

Jupiter's moon Ganymede is telling us more about its alien ocean

<https://arstechnica.com/science/2023/11/jupiters-moon-ganymede-is-telling-us-more-about-its-alien-ocean/>

Meet 'Tenacity:' Sierra Space unveils 1st Dream Chaser space plane

https://www.space.com/sierra-space-completes-first-dream-chaser-space-plane-tenacity?utm_campaign=socialflow&utm_source=facebook.com&utm_medium=social&utm_content=space.com&fbclid=IwAR3CcXc5kLbchk12heVbbw8FutykiX7-cdbSCkjH5oreiSkbMzHNYqc2tlo

Airbus Launches Device to Keep Dead Satellites from Tumbling in Space

https://gizmodo.com/airbus-launches-device-to-keep-dead-satellites-from-tumbling-1851021678?utm_campaign=Gizmodo&utm_content=Giz+Space&utm_medium=SocialMarketing&utm_source=facebook&fbclid=IwAR3N2-QFcqFeZ37ZSG58eVC3HWC7tsYkGn-gS4dKpMSU7T6wCFXMPiWV3u8

European Space Agency signs on to upcoming 'Starlab' space station

https://www.space.com/starlab-space-station-esa-airbus-voyager-space?utm_content=space.com&utm_source=facebook.com&utm_campaign=socialflow&utm_medium=social&fbclid=IwAR3b3EiIF3mp36o0KDVgY9Mqv7GBfmBksflEulJhpJak3inQCO9pSjYWp-8

Mining asteroids: A new method to extract metals from asteroids

<https://phys.org/news/2023-10-asteroids-method-metals.html>

Can we grow veggies on Mars? Fly larvae and synthetic soil may hold the answer

<https://www.npr.org/2023/11/22/1213643383/can-we-grow-veggies-on-mars-fly-larvae-and-synthetic-soil-may-hold-the-answer?sc=18&f=1001>

NASA is pausing all Mars missions, effective immediately. Here's why.

https://www.livescience.com/space/mars/nasa-is-pausing-all-mars-missions-effective-immediately-heres-why?utm_content=livescience&utm_medium=social&utm_source=facebook.com&utm_campaign=socialflow&fbclid=IwAR0ELDRvveFYNyK2qFCaHmqMvUtk4uf4zPY11xyao6DOjSTa_MBEj5aPQRg

Mysterious cosmic ray observed in Utah came from beyond our galaxy, scientists say

<https://www.cnn.com/2023/11/23/americas/powerful-cosmic-ray-amaterasu-particle-detected-scn/index.html>

NASA's Psyche wins first deep space laser relay

https://www.popsci.com/technology/nasa-psyche-laser-comms/?fbclid=IwAR1FZEDuS-HV2Ujrh5zQVtPHN2DuK8YsYNDLntFpw_dt3A0DeBnJLJFIV9w

SpaceX loses Starship rocket eight minutes after second launch

https://www.bbc.com/news/live/science-environment-67462128?at_link_origin=BBC_News&at_link_id=D4E99D10-861D-11EE-8E49-E73E8161DE7E&at_link_type=web_link&at_ptr_name=facebook_page&at_medium=social&at_campaign_type=owned&at_bbc_team=editorial&at_campaign=Social_Flow&at_format=link&fbclid=IwAR2XWKwoRazkLyNzalzi3vHkf_67RJnQ39_OyipnoNcEW6nalDQiZpiNLGs

Dwarf galaxies use 10-million-year quiet period to churn out stars

<https://www.eurekalert.org/news-releases/1008844>

From underground detectors to cosmic secrets: Exploring dark matter-nucleon interactions

<https://phys.org/news/2023-11-underground-detectors-cosmic-secrets-exploring.html>

New constraints on the presence of ultralight dark matter in the Milky Way

<https://phys.org/news/2023-11-constraints-presence-ultralight-dark-milky.html>

New Indian telescope identifies its first supernova

<https://phys.org/news/2023-11-indian-telescope-supernova.html>

Did the Solar System Just Gain 2 New Worlds?

https://blogs.scientificamerican.com/life-unbounded/did-the-solar-system-just-gain-2-new-worlds/?_gl=1*bs1uxd*_ga*MTMyODI4MzAzMi4xNzAwOTUzNjMx*_ga_0P6ZGEWQVE*MTcwMDk1MzYzMS4xLjEuMTcwMDk1MzcwOS41OC4wLjA

Environment, Climate Change and Alternative Energy Sources

Climate-heating gases reach record highs, UN reports

<https://www.theguardian.com/environment/2023/nov/15/climate-heating-gases-reach-record-highs-un-reports>

How Central Valley Farmworker Communities Are Tackling Climate Change

<https://www.kqed.org/news/11966862/how-central-valley-farmworker-communities-are-tackling-climate-change>

Biohybrid microrobots could remove micro- and nano-plastics from aquatic environments

<https://phys.org/news/2023-11-biohybrid-microrobots-micro-nano-plastics-aquatic.html>

Study identifies key algae species helping soft corals survive warming oceans

<https://phys.org/news/2023-11-key-algae-species-soft-corals.html>

AI detects methane plumes from space, could be powerful tool in combating climate change

<https://phys.org/news/2023-11-ai-methane-plumes-space-powerful.html>

Biological, Genetics and Medical Sciences

Arkansas man receives the world's first whole eye transplant plus a new face

<https://www.npr.org/2023/11/10/1212067302/arkansas-man-receives-the-worlds-first-whole-eye-transplant-plus-a-new-face?sc=18&f=1001>

Endangered egg-laying mammal seen for the first time in over 60 years

<https://www.nbcnews.com/news/animal-news/endangered-egg-laying-mammal-seen-first-time-60-years-rcna124670>

HPV vaccines are so effective that new screening policies may be in order, suggests study

https://www.statnews.com/2023/11/08/hpv-vaccines-cancer-screenings/?fbclid=PAAaaKpl74f4jcRi5MGvu6jDN2O28gWQ-IAV0MTjh3KcCtSUIwqiXtH8PLn8o_aem_ATwvrFdKu3EkSNIDALL4X14mpugxP_dFtN-zEZHc0O29_WFXOP8tTAsjBsHRHMJu3tk

For the first time, gene-editing provides hints for lowering cholesterol

<https://www.npr.org/sections/health-shots/2023/11/12/1211672034/for-the-first-time-gene-editing-provides-hints-for-lowering-cholesterol?sc=18&f=1001>

Indiana high court reprimands AG for remarks about 10-year-old rape victim's doctor

<https://www.npr.org/2023/11/03/1210440222/indiana-abortion-todd-rokita-reprimand-caitlin-barnard?sc=18&f=1001>

Lessons from brain science — and history's peacemakers — for resolving conflicts

<https://www.npr.org/sections/health-shots/2023/11/04/1209395551/argument-us-israel-gaza-conflict-relationships?sc=18&f=1001>

A Groundbreaking Scientific Discovery Shows That We Can Reverse Death

<https://www.popularmechanics.com/science/a42216404/is-death-reversible/>

WHO declares loneliness a 'global public health concern'

<https://www.theguardian.com/global-development/2023/nov/16/who-declares-loneliness-a-global-public-health-concern>

Anti-science rhetoric is organized movement that's killing people, prominent physician says

<https://www.azcentral.com/story/news/local/arizona-health/2023/11/17/peter-hotez-says-anti-science-rhetoric-is-threatening-lives-worldwide/71622923007/>

Chlorine disinfectant is no more effective than water at killing off hospital superbug

<https://www.eurekalert.org/news-releases/1008614>

Hybrid transistors set stage for integration of biology and microelectronics

<https://www.eurekalert.org/news-releases/1008864>

Other

Investigators will travel to Antarctica after claims of sexual assault at U.S. bases

<https://www.npr.org/2023/11/03/1210418182/antarctica-sexual-harassment-national-science-foundation-investigation?sc=18&f=1001>

'Yeti hair' found in Himalayas is actually from a horse, BBC series reveals

<https://www.livescience.com/human-behavior/conspiracies-paranormal/yeti-hair-found-in-himalayas-is-actually-from-a-horse-bbc-series-reveals>

Additional Informational

Rose Valland "The Art Front"

<https://www.monumentsmenandwomenfnd.org/product-page/the-art-front?fbclid=IwAR09iUNuydVk8YWB7GI9NQ75tuH93Vw-N-1la-83x6FFMOWw4jk2SyCORWs>

Comet Research Group Website

https://cometresearchgroup.org/comets-diamonds-mammoths/?fbclid=IwAR3uWJwzTuKQXCNP4Zots5Ng_z3LX3AURJOMXiz-XAIMb6DA7fwN4_v7gGg

Select Space Concepts for the New Space Era

https://www.rand.org/pubs/perspectives/PEA2644-1.html?utm_campaign=&utm_content=1700107353&utm_medium=rand_social&utm_source=twitter

Unlocking Insights into Asteroid Impact Risks: SETI Institute Leverages Weather Satellite Data and AI

<https://www.seti.org/unlocking-insights-asteroid-impact-risks-seti-institute-leverages-weather-satellite-data-and-ai>

From childhood stargazing to building a lunar space station

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