

Weekly Science Report

January 26, 2024

“To the stars through hardship. Which could also mean that the stars could deliver us from anything. That in the mysteries and vastness of space, we might not just satisfy our curiosity, our need for exploration. But in it we might each find salvation.”

Star Trek: Strange New Worlds

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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

'Hell chicken' species suggests dinosaurs weren't sliding toward extinction before the fateful asteroid hit

https://phys.org/news/2024-01-hell-chicken-species-dinosaurs-werent.html?fbclid=IwAR11W_wiTQOc1LO3bQqNuT36HuhuSUuzf_Uv4anqAIPeP1U5wWAe_6WydX0#google_vignette

Shiyu discovery reveals East Asia's advanced material culture dating to 45,000 years ago

<https://phys.org/news/2024-01-shiyu-discovery-reveals-east-asia.html>

New fossils suggest kelp forests have swayed in the seas for at least 32 million years

<https://www.npr.org/2024/01/23/1226146217/new-fossils-suggest-kelp-forests-have-swayed-in-the-seas-for-at-least-32-million?sc=18&f=1001>

Prehistoric carvings depict showdowns between humans and beasts

https://www.science.org/content/article/prehistoric-carvings-depict-showdowns-between-humans-and-beasts?utm_campaign=SciMag&utm_source=Facebook&utm_medium=ownedSocial&fbclid=IwAR1fR6eociHhaqE2tSN7179W_QGBIZPTr711PhokUc-NehWs8y9IL-k3gPo

Who Are Western Europeans? New Study Reveals True Origins

<https://www.haaretz.com/archaeology/2024-01-16/ty-article/who-are-western-europeans-new-study-reveals-true-origins/0000018d-0dfa-de9c-a3df-6ffb44030000>

Analysis of chewed birch tar reveals poor Mesolithic oral health

<https://phys.org/news/2024-01-analysis-birch-tar-reveals-poor.html>

Peru's High-Altitude Hunter-Gatherers Ate Mostly Plants

<https://www.archaeology.org/news/12083-240126-peru-tuber-diet>

History

After 87 years at the Smithsonian museum, ancestors reburied on Aleutian Islands

<https://ictnews.org/news/after-87-years-at-the-smithsonian-museum-ancestors-reburied-on-aleutian-islands?fbclid=IwAR0pZmCGQlswIEUTCi4ozHLQmC1-sznj7ZldTYRF6S3Uy1uS-kOzzx0KX7s>

So far it's a grand decade for billionaires, says new report. As for the masses ...

<https://www.npr.org/sections/goatsandsoda/2024/01/14/1224507582/davos-oxfam-rich-poor-inequality?sc=18&f=1001>

What a bereaved father, a historian of Israel, believes after 100 days of war

<https://www.npr.org/2024/01/14/1224592155/israel-hamas-gaza-war-100-days-bereaved-father?sc=18&f=1001>

Picasso, Rembrandt, M. C. Escher Works Feared Lost in Seattle Gallery Fire

<https://www.artnews.com/art-news/news/picasso-rembrandt-m-c-escher-works-lost-seattle-gallery-fire-1234693056/>

Dexter Scott King, son of the Rev. Martin Luther King Jr., has died of cancer at 62

<https://www.npr.org/2024/01/22/1226136610/dexter-scott-king-death>

World's oldest cheese may have been discovered in Croatian pottery

https://www.science.org/content/article/world-s-oldest-cheese-may-have-been-discovered-croatian-pottery?utm_campaign=SciMag&utm_source=Facebook&utm_medium=ownedSocial&fbclid=IwAR27Y7HLVA4YwWNawZK4mMWbp3BbYop_gcH8jH_sf0rCgv4q_7iGILFxOpk

A long, nasty history of uranium mining on Native lands

https://ictnews.org/news/a-long-nasty-history-of-uranium-mining-on-native-lands?fbclid=IwAR37CcJ2z8y5_D8d7DU0vbN0ByuALgP5MuFF6qD4IsPAjWFI_6JPfuHbYbw

Almost 80 years after the Holocaust, 245,000 Jewish survivors are still alive

<https://apnews.com/article/holocaust-survivors-numbers-report-claims-conference-890c9ad6aa7bc1cf99e1cbe40e61c013>

Medieval DNA suggests Columbus didn't trigger syphilis epidemic in Europe

<https://www.science.org/content/article/medieval-dna-suggests-columbus-didn-t-trigger-syphilis-epidemic-europe>

DNA Analysis Reveals Minoan and Mycenaean Genetic Origins

<https://greekreporter.com/2024/01/19/minoan-mycenaean-dna/>

India's Modi to inaugurate Hindu temple in Ayodhya, where rioters destroyed a mosque

<https://www.npr.org/2024/01/21/1225395353/india-ayodhya-temple-modi-hinduism?sc=18&f=1001>

First prehistoric person with Turner syndrome identified from ancient DNA

<https://phys.org/news/2024-01-prehistoric-person-turner-syndrome-ancient.html>

How to Save Indigenous Languages

<https://www.scientificamerican.com/podcast/episode/how-to-save-indigenous-languages/>

The Roman Empire's Worst Plagues Were Linked to Climate Change

<https://www.scientificamerican.com/article/the-roman-empires-worst-plagues-were-linked-to-climate-change/>

Archaeology

University of Reading finds ancient traps and footprints in the Severn Estuary

https://www.bbc.com/news/uk-england-berkshire-67901154?at_medium=social&at_campaign_type=owned&at_link_origin=BBC_Radio_5_live&at_link_type=web_link&at_link_id=DE8FF64C-B620-11EE-BAAE-7E4387A28522&at_bbc_team=editorial&at_format=link&at_ptr_name=facebook_page&at_campaign=Social_Flow&fbclid=IwAR2_L44KVNyL1N0aMc5tx8li3bg4GYwQBm8kVM1DDYdNIHS5qk1kKzqPhTw

Amateur archaeologists uncover a mysterious ancient Roman artifact in England

<https://www.npr.org/2024/01/24/1226575715/archaeologists-roman-empire-dodecahedron-england?sc=18&f=1001>

Archaeologists Redate Babylon's Ishtar Gate Using Earth's Magnetic Field

<https://www.haaretz.com/archaeology/2024-01-23/ty-article/archaeologists-redate-babylons-ishtar-gate-using-earths-magnetic-field/0000018d-362c-d81e-abdf-3e2c1cc20000>

How Archaeologists Are Unearthing the Secrets of the Bahamas' First Inhabitants

<https://www.smithsonianmag.com/history/how-archaeologists-are-unearthing-the-secrets-of-the-bahamas-first-inhabitants-180983548/>

Treasure trove of ancient artifacts and skeletons found in Brazil could rewrite country's history, archaeologists say

<https://www.cbsnews.com/news/ancient-artifacts-skeletons-found-brazil-could-rewrite-history-archaeologists-say/>

Valley of lost cities found in the Amazon. Technological advances in archaeology are just the beginning

<https://phys.org/news/2024-01-valley-lost-cities-amazon-technological.html>

Rare 2,550-year-old silver coin from Persian era uncovered in Jerusalem area

https://www.jpost.com/archaeology/article-782504#google_vignette

3D scanning: Researchers recreate a sacred South African site in a way that captures its spirit

<https://phys.org/news/2024-01-3d-scanning-recreate-sacred-south.html>

Archaeologists Discover 4,000-Year-Old Wall Built Around Oasis in Saudi Arabia

<https://www.smithsonianmag.com/smart-news/this-arabian-walled-oasis-was-built-4000-years-ago-to-protect-from-raiders-180983607/>

Egyptology

Nothing to report

General Science

The worst technology failures of 2023

https://www.technologyreview.com/2023/12/22/1085829/the-worst-technology-failures-of-2023/?utm_source=linkedin&utm_medium=mid&utm_campaign=trending2024&li_fat_id=8dbcf1bf-9bee-475d-8d06-53af3fdb1c71

Physics, Earth and Space Sciences

Newly discovered cosmic megastructure challenges theories of the universe

https://www.theguardian.com/science/2024/jan/11/newly-discovered-cosmic-megastructure-challenges-theories-of-the-universe?utm_source=dlvr.it&utm_medium=facebook&fbclid=IwAR0irqlph23I7bQ1DXdh0xITUnR RvJJOSD5xYTA0-9iE8du7AFDPqYr7T5U

Japan moon landing features a transforming robot

<https://www.npr.org/2024/01/18/1225328376/japan-moon-landing-robot-transformers-jaxa?sc=18&f=1001>

SpaceX launches 4 people for a private mission to the International Space Station

<https://www.npr.org/2024/01/18/1225191541/spacex-nasa-axiom-space-ax-3-international-space-station-iss?sc=18&f=1001>

Peregrine moon lander heads back toward Earth and should burn up in the atmosphere

<https://www.npr.org/2024/01/14/1224723508/peregrine-moon-lander-heads-back-toward-earth-and-should-burn-up-in-the-atmosphe?sc=18&f=1001>

Scientists discover core deep inside Earth — a solid ball of iron and nickel

https://www.nbcnews.com/science/science-news/scientists-discover-new-core-deep-earth-solid-ball-iron-nickel-rcna72194?cid=sm_npd_nn_fb_ma&utm_source=facebook&utm_campaign=NBC%20News&utm_medium=social&fbclid=IwAR3yxLvtxdUZMk2NHIX43gbCte-rrdZfRJJh4p5BO-94TqUxX_FyODbSdNQ&branch_match_id=1275905117778962712&branch_referrer=H4sIAA_AAAAAA8soKSkottLXz0tKzkstL9ZLLCjQy8nMy9avsPBLya9I9i9wT7JPS0rOyUyx9Sx3DDKurPApK6IICY3yzTby88iJMFOT3luSdUtKkqJSGvy8sowKTB18te1NAkpDK2liHer9HdJCk7xCwQASky4PWkAAAA%3D

If life exists on Mars, don't count on sample-return missions to find it, scientists say

https://www.space.com/mars-search-for-life-sample-return-tension?utm_source=facebook.com&utm_content=space.com&utm_medium=social&utm_campaign=socialflow&fbclid=IwAR1XXd5nBjsiSgOrjoMvsTUY993owVhud9i9_1TKd8TfjDFKFdghnpvxbWc

Japan shuts down its SLIM moon lander in hopes it will restart someday

<https://www.npr.org/2024/01/22/1226036239/japan-slim-moon-lander-battery-power?sc=18&f=1001>

Mystery of Siberia's giant exploding craters may finally be solved

https://www.livescience.com/planet-earth/geology/mystery-of-siberias-giant-exploding-craters-may-finally-be-solved?utm_campaign=socialflow&utm_source=facebook.com&utm_medium=social&utm_content=livescience&fbclid=IwAR0M_SS7Ry6GgAXbd6kp1p027ibnb--m_IEmjkYgRBB49QEzGFKE0FD0loY

Arno Penzias, co-discoverer of the Big Bang's afterglow, dies at age 90

<https://www.npr.org/2024/01/24/1226572843/arno-penzias-obituary-big-bang-theory?sc=18&f=1001>

Scientists discover near-Earth asteroid hours before it exploded over Berlin

https://www.space.com/scientists-discover-near-earth-asteroid-hours-before-it-exploded-over-berlin?utm_content=space.com&utm_medium=social&utm_source=facebook.com&utm_campaign=socialflow&fbclid=IwAR0HAI0cVkp09dGpMx-PirBV75H66wscU0fBRt6SEOiXUELK-QR7gKVHcEY

How NASA predicted the Jan. 21 asteroid crash over Germany

https://www.space.com/how-nasa-predicted-asteroid-2024-bx1-strike?utm_content=space.com&utm_source=facebook.com&utm_campaign=socialflow&utm_medium=social&fbclid=IwAR2sfiPjyO3LAWrGNe7vbf9UVA0uKJaW61_WTciVew2Rpy1fy7WJLtDiU

NASA finds Ingenuity after losing contact with the Mars helicopter

<https://www.npr.org/2024/01/20/1225845938/nasa-mars-ingenuity-helicopter-lost?sc=18&f=1001>

'Old smokers' and 'squalling newborns' among hidden stars spotted for first time

<https://www.eurekalert.org/news-releases/1032323>

Underwater Santorini volcano eruption 520,000 years ago was 15 times bigger than record-breaking Tonga eruption

<https://www.livescience.com/planet-earth/volcanos/underwater-santorini-volcano-eruption-520000-years-ago-was-15-times-bigger-than-record-breaking-tonga-eruption>

Stars travel more slowly at Milky Way's edge: Galaxy's core may contain less dark matter than previously estimated

<https://phys.org/news/2024-01-stars-slowly-milky-edge-galaxy.html>

Environment, Climate Change and Alternative Energy Sources

No turning back: The largest dam removal in U.S. history begins

<https://www.npr.org/2024/01/12/1224494403/klamath-river-begins-to-flow-again-with-dam-removal-project?sc=18&f=1001>

Seaweed 'could survive nuclear war, avert famine,' says new study

<https://phys.org/news/2024-01-seaweed-survive-nuclear-war-avert.html>

Cultivated meat production costs could fall significantly: Bovine muscle engineered to produce their own growth signals

<https://phys.org/news/2024-01-cultivated-meat-production-fall-significantly.html>

Biological, Genetics and Medical Sciences

Gene therapy shows promise for an inherited form of deafness

<https://www.npr.org/sections/health-shots/2024/01/24/1226595039/gene-therapy-shows-promise-for-an-inherited-form-of-deafness?sc=18&f=1001>

Team develops bioengineered material to rapidly stop bleeding in patients on blood thinners

<https://medicalxpress.com/news/2024-01-team-bioengineered-material-rapidly-patients.html?fbclid=IwAR1DrBCfBp2dxMj8QOAnrhOSDMKtU6mNSLWwnzIJdiC7Df46qP4AJBB9y8c>

3D printed electronic skin provides promise for human-machine interaction

<https://techxplore.com/news/2024-01-3d-electronic-skin-human-machine.html>

Other

Nothing to report

Additional Informational

Doing History in Polarized Times: Virtual Summit, Feb 8-9

https://aaslh.org/annualconference/doing-history-summit/?fbclid=IwAR2uf8HVjbTytZZFZO2tSsofPlmMxS0WBZdGF2DN5w1oJtWkq3zp5lAnFwo_aem_AQFDt5BLFKU-2y6afSsGnGCH9tgoU1G0LwihfyelwXMK6EaXETPKMC2x8BPTvZZOBSFEgp0gmr0nX9i1UtN3r-e1

NEOWISE: the announced farewell

https://asteroidday.org/news-updates/neowise-the-announced-farewell/?fbclid=IwAR058adK3MOFfwLpG9jNG_N-O0-mQ65uqjXVWI9MK6yn7F3-HA4fuxr7CzQ

Library of Congress Launches New Website for Americans to Share COVID-19 Stories

<https://newsroom.loc.gov/news/library-of-congress-launches-new-website-for-americans-to-share-covid-19-stories/s/d5739534-fec6-4e13-9f16-68d6117ee94b>

TED Talk, Why AI is incredibly smart and shockingly stupid

https://www.ted.com/talks/yejin_choi_why_ai_is_incredibly_smart_and_shockingly_stupid?fbclid=IwAR2TJBORxK8S_s7l-ye5Hi3Q4tRDnRwXf-vvPGu6Q6MpcHmhovVIYF3wy-Y

New Research Shows Impacts of Drought on National Park Visitation

<https://www.drought.gov/news/new-research-shows-impacts-drought-national-park-visitation-2024-01-24>

A new tiny impactor observed until shadow entrance

<https://neo.ssa.esa.int/-/latest-news>

PBS, the Broken Promise- Video

<https://video.wned.org/video/the-broken-promise-GkvIKN/>