



Sharing Knowledge to create a Better World!



Sharing Knowledge to create a Better World!

# Weekly Science Report

## September 15, 2023

**“Until lions have their historians, tales of the hunt shall always glorify the hunters.”**

African Proverb

### Table of Contents

<b>Introduction</b> .....	<b>2</b>
<b>News Articles</b> .....	<b>3</b>
Paleontology, Evolution and Prehistoric Studies .....	3
History .....	4
Archaeology.....	5
Egyptology.....	6
General Science .....	7
Physics, Earth and Space Sciences .....	8
Environment, Climate Change and Alternative Energy Sources.....	9
Biological, Genetics and Medical Sciences .....	10
Other .....	11
<b>Additional Informational</b> .....	<b>12</b>

## 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

'I am horrified': Archaeologists are fuming over ancient human relative remains sent to edge of space

<https://www.livescience.com/archaeology/i-am-horrified-archaeologists-are-fuming-over-ancient-human-relative-remains-sent-to-edge-of-space?fbclid=IwAR0A4iVltRYYNEVwjwKxQFi5K2pGoVxpgongivRAQnCtlq7pc8dw5LQyVM4>

7,000-year-old animal bones, human remains found in enigmatic stone structure in Arabia

[https://www.livescience.com/archaeology/7000-year-old-animal-bones-human-remains-found-in-enigmatic-stone-structure-in-arabia?utm\\_source=facebook.com&utm\\_medium=social&utm\\_campaign=socialflow&utm\\_content=livescience&fbclid=IwAR0U90JgHAFicIKt2XtzeF5A59PiDPz8x8fJC6fvf15kaiEy7BHRWPcF\\_yws](https://www.livescience.com/archaeology/7000-year-old-animal-bones-human-remains-found-in-enigmatic-stone-structure-in-arabia?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fbclid=IwAR0U90JgHAFicIKt2XtzeF5A59PiDPz8x8fJC6fvf15kaiEy7BHRWPcF_yws)

Prehistoric artists carved incredibly lifelike animal tracks

[https://www.science.org/content/article/prehistoric-artists-carved-incredibly-lifelike-animal-tracks?utm\\_medium=ownedSocial&utm\\_campaign=NewsfromScience&utm\\_source=Facebook&fbclid=IwAR2CPC9rwDx1xKcbkCIKcz1i9fRaOQwmuiP633sQH7cBVAv3dsYe7NDmudA](https://www.science.org/content/article/prehistoric-artists-carved-incredibly-lifelike-animal-tracks?utm_medium=ownedSocial&utm_campaign=NewsfromScience&utm_source=Facebook&fbclid=IwAR2CPC9rwDx1xKcbkCIKcz1i9fRaOQwmuiP633sQH7cBVAv3dsYe7NDmudA)

Archaeologists reveal largest paleolithic cave art site in Eastern Iberia

<https://phys.org/news/2023-09-archaeologists-reveal-largest-paleolithic-cave.html>

Early humans deliberately made mysterious stone 'spheroids'

<https://phys.org/news/2023-09-early-humans-deliberately-mysterious-stone.html>

Pigment production adapted to cultural changes and availability of mineral resources 40,000 years ago in Ethiopia

<https://phys.org/news/2023-09-pigment-production-cultural-availability-mineral.html>

## History

Remains of U.S. WWII pilot who never returned from bombing mission identified with DNA

<https://www.cbsnews.com/news/remains-world-war-ii-pilot-identified-charles-reynolds-dna/>

DNA from 17th-Century Teeth Confirms Cause of London's Great Plague

[https://www.smithsonianmag.com/smart-news/dna-17th-century-teeth-confirms-cause-londons-great-plague-180960405/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=992023&utm\\_content=archival&mibextid=Zxz2cZ&fbclid=IwAR1O-IGYG-wmEdb5THd14T2e33NPfZx03GIfp\\_YkQL1smCa4ZpSICd-EYTk](https://www.smithsonianmag.com/smart-news/dna-17th-century-teeth-confirms-cause-londons-great-plague-180960405/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=992023&utm_content=archival&mibextid=Zxz2cZ&fbclid=IwAR1O-IGYG-wmEdb5THd14T2e33NPfZx03GIfp_YkQL1smCa4ZpSICd-EYTk)

JFK assassination witness questions whether shooter acted alone

<https://www.theguardian.com/us-news/2023/sep/11/jfk-assasination-multiple-shooters-paul-landis>

The U.S. set the stage for a coup in Chile. It had unintended consequences at home

<https://www.npr.org/2023/09/10/1193755188/chile-coup-50-years-pinochet-kissinger-human-rights-allende?sc=18&f=1001>

Vatican holds unprecedented beatification of Polish family of 9 killed for hiding Jews

<https://www.nbcnews.com/news/world/vatican-beatification-polish-family-killed-hiding-jews-rcna104263>

Lessons from Birmingham: 60 years after the 16th Street Baptist Church bombing

<https://www.npr.org/2023/09/14/1199312953/16th-street-baptist-church-bombing-60th-anniversary?sc=18&f=1001>

Quest to bring priest charged with torture in Argentina to justice

[https://www.bbc.com/news/world-latin-america-66574950?xtor=AL-72-%5Bpartner%5D-%5Bbbc.news.twitter%5D-%5Bheadline%5D-%5Bnews%5D-%5Bbizdev%5D-%5Bisapi%5D&at\\_link\\_id=D77442A2-536D-11EE-AEF2-6651FE754D29&at\\_campaign=Social\\_Flow&at\\_link\\_origin=BBCNews&at\\_campaign\\_type=owned&at\\_link\\_type=web\\_link&at\\_ptr\\_name=twitter&at\\_format=link&at\\_medium=social&at\\_bbc\\_team=editorial](https://www.bbc.com/news/world-latin-america-66574950?xtor=AL-72-%5Bpartner%5D-%5Bbbc.news.twitter%5D-%5Bheadline%5D-%5Bnews%5D-%5Bbizdev%5D-%5Bisapi%5D&at_link_id=D77442A2-536D-11EE-AEF2-6651FE754D29&at_campaign=Social_Flow&at_link_origin=BBCNews&at_campaign_type=owned&at_link_type=web_link&at_ptr_name=twitter&at_format=link&at_medium=social&at_bbc_team=editorial)

Economic relationships in Pre-Columbian Mexico show that Aztec rulers were ruthless exploiters

<https://phys.org/news/2023-09-economic-relationships-pre-columbian-mexico-aztec.html>

When the Nazis Massacred Greek Civilians to Send a Warning to Those Who Resisted

<https://www.smithsonianmag.com/history/nazis-massacred-greek-civilians-send-warning-those-who-resisted-viannos-180982862/>

## Archaeology

An Ancient Roman Wall Just Emerged in Switzerland. It's an Archaeological Sensation.

<https://www.popularmechanics.com/science/archaeology/a44938215/ancient-roman-wall-discovered-in-switzerland/>

No one 'expected to find what we did': 4,000-year-old Canaanite arch in Israel may have been used by cult

<https://www.livescience.com/archaeology/no-one-expected-to-find-what-we-did-4000-year-old-canaanite-arch-in-israel-may-have-been-used-by-cult>

Investigating ancient irrigation tunnels with a remote controlled car

<https://phys.org/news/2023-09-ancient-irrigation-tunnels-remote-car.html>

Shipboard cannon found off the Swedish coast may be the oldest in Europe

<https://phys.org/news/2023-09-shipboard-cannon-swedish-coast-oldest.html>

Egyptology

Nothing to report

## General Science

AI-driven tool makes it easy to personalize 3D-printable models  
<https://www.eurekaalert.org/news-releases/1001622>

## Physics, Earth and Space Sciences

How NASA's Habitable Worlds Observatory will search exoplanets for signs of alien life

[https://www.space.com/nasa-habitable-worlds-observatory-exoplanets-alien-life?utm\\_source=facebook.com&utm\\_medium=social&utm\\_content=space.com&utm\\_campaign=socialflow&fbclid=IwAR0fljn7P2kx1eE\\_tTPi4UQc93q0NAFaB6ytOweWuut3\\_HXFK5ujjGUcPPc](https://www.space.com/nasa-habitable-worlds-observatory-exoplanets-alien-life?utm_source=facebook.com&utm_medium=social&utm_content=space.com&utm_campaign=socialflow&fbclid=IwAR0fljn7P2kx1eE_tTPi4UQc93q0NAFaB6ytOweWuut3_HXFK5ujjGUcPPc)

'It is biological in origin': 1st analysis of weird golden orb from ocean floor leaves scientists stumped

[https://www.livescience.com/planet-earth/rivers-oceans/it-is-biological-in-origin-first-analysis-of-weird-golden-orb-from-ocean-floor-leaves-scientists-stumped?utm\\_medium=social&utm\\_content=livescience&utm\\_campaign=socialflow&utm\\_source=facebook.com&fbclid=IwAR15QdQTQPCsq8tg4Wj2MNVsGKGgdGkN2aN8Gf0hhMIFD314wKyX4gie2pM](https://www.livescience.com/planet-earth/rivers-oceans/it-is-biological-in-origin-first-analysis-of-weird-golden-orb-from-ocean-floor-leaves-scientists-stumped?utm_medium=social&utm_content=livescience&utm_campaign=socialflow&utm_source=facebook.com&fbclid=IwAR15QdQTQPCsq8tg4Wj2MNVsGKGgdGkN2aN8Gf0hhMIFD314wKyX4gie2pM)

Astronaut Frank Rubio sets US record for longest trip in space

<https://www.cnn.com/2023/09/11/world/nasa-astronaut-longest-time-in-space-frank-rubio-scn/index.html>

New survey outlines what NASA must do over the next 10 years to help astronauts thrive beyond Earth

[https://www.space.com/nasa-space-exploration-decadal-survey-national-academies-sciences?utm\\_medium=social&utm\\_source=facebook.com&utm\\_content=space.com&utm\\_campaign=socialflow&fbclid=IwAR3S9WyHJNFwUvr1zLaXPCMdMYEUUV76rkgLjm9HkpN7zwHc8\\_Td-YiTYj5k](https://www.space.com/nasa-space-exploration-decadal-survey-national-academies-sciences?utm_medium=social&utm_source=facebook.com&utm_content=space.com&utm_campaign=socialflow&fbclid=IwAR3S9WyHJNFwUvr1zLaXPCMdMYEUUV76rkgLjm9HkpN7zwHc8_Td-YiTYj5k)

FAA orders SpaceX to take 63 corrective actions on Starship and keeps rocket grounded

<https://www.nbcnews.com/science/science-news/faa-orders-spacex-take-63-corrective-actions-starship-keeps-rocket-grounded-rcna104070>

NASA releases UFO report, says new science techniques needed to better understand them

[https://www.cnbc.com/2023/09/14/nasa-releases-ufo-report-says-new-science-techniques-needed-to-better-understand-them.html?utm\\_content=Main&utm\\_medium=Social&utm\\_source=facebook%7Cmain&fbclid=IwAR1xlo34lgRle7q451vEi715HREfi0oBUaM1T5S0gDK0bUwTfFjhsoXZzII](https://www.cnbc.com/2023/09/14/nasa-releases-ufo-report-says-new-science-techniques-needed-to-better-understand-them.html?utm_content=Main&utm_medium=Social&utm_source=facebook%7Cmain&fbclid=IwAR1xlo34lgRle7q451vEi715HREfi0oBUaM1T5S0gDK0bUwTfFjhsoXZzII)

SpaceX Starship engine passes key test for Artemis 3 moon-landing mission

<https://www.space.com/spacex-starship-raptor-engine-artemis-3-cold-moon-landing-test>

NASA releases 'baby picture' of a star that will grow up to be much like our sun

<https://www.npr.org/2023/09/16/1199995083/nasa-star-image-james-webb-telescope>

Solar Orbiter closes in on the solution to a 65-year-old solar mystery

<https://phys.org/news/2023-09-solar-orbiter-solution-year-old-mystery.html>



## Environment, Climate Change and Alternative Energy Sources

Electric cars have a road trip problem, even for the secretary of energy

<https://www.npr.org/2023/09/10/1187224861/electric-vehicles-evs-cars-chargers-charging-energy-secretary-jennifer-granholm?sc=18&f=1001>

The world is still falling short on limiting climate change, according to U.N. report

<https://www.npr.org/2023/09/09/1198526427/un-report-climate-change-world-rapid-cut-emissions?sc=18&f=1001>

New poppy seed-sized fuel pellets could power nuclear reactors on the moon

[https://www.livescience.com/space/space-exploration/new-poppy-seed-sized-fuel-pellets-could-power-nuclear-reactors-on-the-moon?utm\\_source=facebook.com&utm\\_medium=social&utm\\_campaign=socialflow&utm\\_content=livescience&fbclid=IwAR2gxTHIY0rl68liQVdbGBupiHR8CDNJNuAljo-NtqHyxIISuH458YYEXOY](https://www.livescience.com/space/space-exploration/new-poppy-seed-sized-fuel-pellets-could-power-nuclear-reactors-on-the-moon?utm_source=facebook.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fbclid=IwAR2gxTHIY0rl68liQVdbGBupiHR8CDNJNuAljo-NtqHyxIISuH458YYEXOY)

Venice may be put on the endangered list, thanks to human-created climate change

<https://www.npr.org/2023/09/12/1197139620/venice-endangered-climate-change?fbclid=IwAR1T3mJqOOXh2psSXxsW-rb2J8yxx6bhBIIbXlSsuuA3MQ21nWDwm8FQvyk>

There's a vast source of clean energy beneath our feet. And a race to tap it.

<https://www.baltimoresun.com/news/nation-world/ct-aud-nw-nyt-geothermal-energy-20230828-slnjgc4ve5carpp5spgxvpsju-story.html>

Brazil restores stricter climate goals weakened under former administration

<https://www.pbs.org/newshour/politics/brazil-restores-stricter-climate-goals-weakened-under-former-administration>

Antarctic sea-ice at 'mind-blowing' low alarms experts

<https://www.bbc.com/news/science-environment-66724246>

Genetically modified bacteria break down plastics in saltwater

<https://www.eurekalert.org/news-releases/1001606>

## Biological, Genetics and Medical Sciences

Life-changing cystic fibrosis treatment wins US\$3-million Breakthrough Prize

<https://www.nature.com/articles/d41586-023-02890-1>

Mystery of 'living fossil' tree frozen in time for 66 million years finally solved

<https://www.livescience.com/planet-earth/plants/mystery-of-living-fossil-tree-frozen-in-time-for-66-million-years-finally-solved>

Revolutionizing brain monitoring and stimulation with thin-film neural electrodes

<https://www.eurekalert.org/news-releases/1001386>

In cancer immunotherapy, more isn't necessarily better

<https://www.eurekalert.org/news-releases/1001176>

Scientists take next big step in understanding genetics of schizophrenia

<https://medicalxpress.com/news/2023-09-scientists-big-genetics-schizophrenia.html>

## Other

The who's who of the tech world meet with senators to debate plan to regulate AI

<https://www.npr.org/2023/09/13/1198994746/top-tech-leaders-are-to-meet-with-u-s-senators-on-the-future-of-ai-regulation?sc=18&f=1001>

A ufologist claims to show 2 alien corpses to Mexico's Congress

<https://www.npr.org/2023/09/13/1199251336/mexico-alien-corpse-congress?sc=18&f=1001>

How wealthy UFO fans helped fuel fringe beliefs

<https://www.livescience.com/space/extraterrestrial-life/how-wealthy-ufo-fans-helped-fuel-fringe-beliefs>

## Additional Informational

NOAA flies straight into the Guinness World Records book

[https://www.noaa.gov/news/noaa-flies-straight-into-guinness-world-records-book?fbclid=IwAR3kV09YmBIGQCRsTqnkZy\\_gu6\\_cWfivl52HHsEdTDWgPvNfTmt32L6sFlg](https://www.noaa.gov/news/noaa-flies-straight-into-guinness-world-records-book?fbclid=IwAR3kV09YmBIGQCRsTqnkZy_gu6_cWfivl52HHsEdTDWgPvNfTmt32L6sFlg)

Space Exploration and U.S. Competitiveness

[https://www.cfr.org/backgrounder/space-exploration-and-us-competitiveness?utm\\_source=tw&utm\\_medium=social\\_owned](https://www.cfr.org/backgrounder/space-exploration-and-us-competitiveness?utm_source=tw&utm_medium=social_owned)

Earth beyond six of nine planetary boundaries

<https://www.science.org/doi/10.1126/sciadv.adh2458>

Cracks in Ancient Martian Mud Surprise NASA's Curiosity Rover Team

[https://mars.nasa.gov/news/9459/cracks-in-ancient-martian-mud-surprise-nasas-curiosity-rover-team/?site=msl&utm\\_source=iContact&utm\\_medium=email&utm\\_campaign=nasas-mars-public-engagement-team&utm\\_content=20230909-MarsNewsletter](https://mars.nasa.gov/news/9459/cracks-in-ancient-martian-mud-surprise-nasas-curiosity-rover-team/?site=msl&utm_source=iContact&utm_medium=email&utm_campaign=nasas-mars-public-engagement-team&utm_content=20230909-MarsNewsletter)

NASA's Oxygen-Generating Experiment MOXIE Completes Mars Mission

[https://mars.nasa.gov/news/9474/nasas-oxygen-generating-experiment-moxie-completes-mars-mission/?utm\\_source=iContact&utm\\_medium=email&utm\\_campaign=nasas-mars-public-engagement-team&utm\\_content=20230909-MarsNewsletter](https://mars.nasa.gov/news/9474/nasas-oxygen-generating-experiment-moxie-completes-mars-mission/?utm_source=iContact&utm_medium=email&utm_campaign=nasas-mars-public-engagement-team&utm_content=20230909-MarsNewsletter)

Perseverance Rover Watches Ingenuity Mars Helicopter's 54th Flight

[https://mars.nasa.gov/resources/27635/perseverance-rover-watches-ingenuity-mars-helicopters-54th-flight/?utm\\_source=iContact&utm\\_medium=email&utm\\_campaign=nasas-mars-public-engagement-team&utm\\_content=20230909-MarsNewsletter](https://mars.nasa.gov/resources/27635/perseverance-rover-watches-ingenuity-mars-helicopters-54th-flight/?utm_source=iContact&utm_medium=email&utm_campaign=nasas-mars-public-engagement-team&utm_content=20230909-MarsNewsletter)

Dinosaurs Rediscovered: The Scientific Revolution in Paleontology

[https://www.amazon.com/dp/B07MFRBNC8?pd\\_rd\\_i=B07MFRBNC8&pd\\_rd\\_w=Q6Pfq&content-id=amzn1.sym.52c99dd4-1d82-4150-93a8-fce02ba6b3c2&pf\\_rd\\_p=52c99dd4-1d82-4150-93a8-fce02ba6b3c2&pd\\_rd\\_wg=155dE&pd\\_rd\\_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe\\_26987920\\_751130130\\_ssub](https://www.amazon.com/dp/B07MFRBNC8?pd_rd_i=B07MFRBNC8&pd_rd_w=Q6Pfq&content-id=amzn1.sym.52c99dd4-1d82-4150-93a8-fce02ba6b3c2&pf_rd_p=52c99dd4-1d82-4150-93a8-fce02ba6b3c2&pd_rd_wg=155dE&pd_rd_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe_26987920_751130130_ssub)

Cave of Bones: A True Story of Discovery, Adventure, and Human Origins

[https://www.amazon.com/dp/B0BWLRW6T4?pd\\_rd\\_i=B0BWLRW6T4&pd\\_rd\\_w=AtLfD&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf\\_rd\\_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd\\_rd\\_wg=155dE&pd\\_rd\\_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe\\_26987920\\_751130130\\_ssub](https://www.amazon.com/dp/B0BWLRW6T4?pd_rd_i=B0BWLRW6T4&pd_rd_w=AtLfD&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd_rd_wg=155dE&pd_rd_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe_26987920_751130130_ssub)

Under Alien Skies: A Sightseer's Guide to the Universe

[https://www.amazon.com/dp/B0B3KJVKHC?pd\\_rd\\_i=B0B3KJVKHC&pd\\_rd\\_w=AtLfD&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf\\_rd\\_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd\\_rd\\_wg=155dE&pd\\_rd\\_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe\\_26987920\\_751130130\\_ssub](https://www.amazon.com/dp/B0B3KJVKHC?pd_rd_i=B0B3KJVKHC&pd_rd_w=AtLfD&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd_rd_wg=155dE&pd_rd_r=8c862cfd-477f-41f7-81eb-abd916e916b9&ref=pe_26987920_751130130_ssub)

Secure World Foundation Newsletter, September 2023

<https://mailchi.mp/swfound.org/aug2022-newsletter-1806767-at3w0dk8gp-1807067?e=1278109aa1>

NASA Welcomes Germany as Newest Artemis Accords Signatory

<https://www.nasa.gov/press-release/nasa-welcomes-germany-as-newest-artemis-accords-signatory>

NASA UNIDENTIFIED ANOMALOUS PHENOMENA: Independent Study Team Report  
[https://science.nasa.gov/science-pink/s3fs-public/atoms/files/UAP%20Independent%20Study%20Team%20-%20Final%20Report\\_0.pdf](https://science.nasa.gov/science-pink/s3fs-public/atoms/files/UAP%20Independent%20Study%20Team%20-%20Final%20Report_0.pdf)

Flipping the Science Model: A Roadmap to Science Missions for Sustainability Report  
[https://council.science/publications/flipping-the-science-model/?utm\\_source=International+Science+Council&utm\\_campaign=f6370dd7b2-February+2023\\_COPY\\_01&utm\\_medium=email&utm\\_term=0\\_6e20810dfd-f6370dd7b2-233954506&mc\\_cid=f6370dd7b2&mc\\_eid=725b365f54](https://council.science/publications/flipping-the-science-model/?utm_source=International+Science+Council&utm_campaign=f6370dd7b2-February+2023_COPY_01&utm_medium=email&utm_term=0_6e20810dfd-f6370dd7b2-233954506&mc_cid=f6370dd7b2&mc_eid=725b365f54)

International Science Council Newsletter  
<https://us5.campaign-archive.com/?e=725b365f54&u=2e9b648776114e2888e7ea8c5&id=f6370dd7b2>

Webb Discovers Methane, Carbon Dioxide in Atmosphere of K2-18 b  
<https://www.nasa.gov/goddard/2023/webb-discovers-methane-carbon-dioxide-in-atmosphere-of-k2-18b>

NASA to Reveal Asteroid Sample Grabbed in Space, Delivered to Earth  
<https://www.nasa.gov/press-release/nasa-to-reveal-asteroid-sample-grabbed-in-space-delivered-to-earth>