Queensland Science Network

Periodical Newsletter

12 Oct, 2021

http://scienceqld.org/
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https://www.linkedin.com/company/queensland-science-network/
newsletter@scienceqld.org au

This Newsletter has been compiled on behalf of member groups of the Queensland Science Network (QSN), partly to showcase their work; and partly to bring new initiatives in science and natural history to public attention. Participating groups include:

Editor: Col Lynam

Newsletter Subscription: https://scienceqld.org/ . You can also get in touch via our Facebook site (https://www.facebook.com/QLDScienceNetwork/) or by email to the Editor. newsletter@scienceqld.org

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Acknowledgement of Country

The Queensland Science Network (QSN) acknowledges and pays respects to the Yuggera people, the Traditional Owners of the lands on which the Editorial Office is located.

The QSN also acknowledges and pays respects to the Traditional Owners and the Elders past, present and emerging of all the lands on which the QSN operates, and its members live and work. They hold the memories, traditions, cultures and hopes of Aboriginal and Torres Strait Islander peoples of Australia.

Editorial

Dear QSN Newsletter readers,
Things are warming up in the policy arena for the Climate Emergency. Several articles reflect this discussion. Some partners even attempted field work!

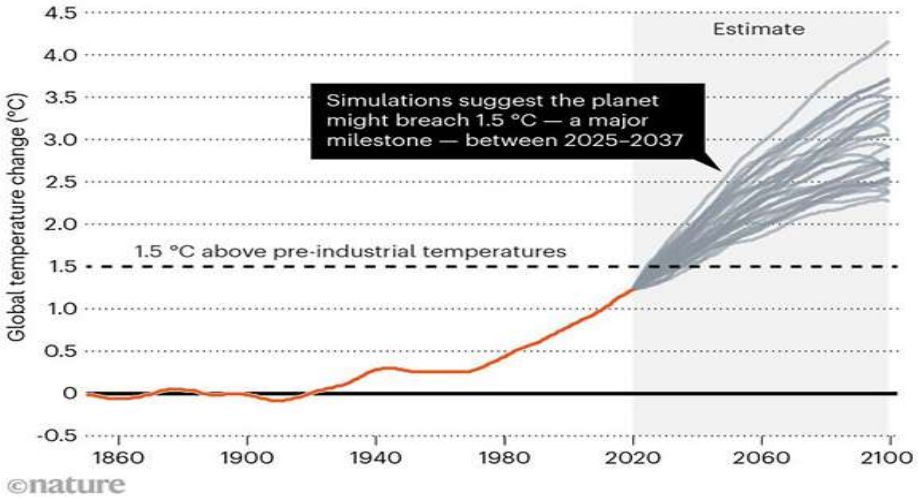
I have introduced a NEW section, **COMIC EXPRESSIONS** which is meant to highlight the growing use of skills for effective data visualisation and infographics, being used in modern journals. Do pardon my crude attempts to exhibit the professional sources. I'd really appreciate any examples that impressed you.

Society Secretaries, please forward this Newsletter on to your members and send me YOUR SOCIETY'S information that will interest our wider science community.

The Queensland Science Network (QSN) was officially launched by His Excellency the Governor of Queensland at a reception on Thursday 13 June 2019. The Queensland Science Network fosters collaboration between organisations involved in science and natural history. 'Science' is the application of scientific method to observations about the biophysical world.
Colin Lynam, Editor, Queensland Science Network Newsletter (newsletter@scienceqld.org)
Quote of the day
"Speak up in line at the pharmacy. Volunteer to speak at your kids' school. Or, if you're ambitious, join me at the upcoming flat-earth convention."
Talking to science deniers is not hopeless, says philosopher of science Lee McIntyre — if you're willing to build trust and listen. (Nature | 5 min read)

WARMER WORLDS

To bolster confidence in their projections, climate scientists align their simulations with available historical observations. The latest simulations from 33 research groups around the globe project that Earth will warm by between 2.3 °C and 4.1 °C by 2100 in a middle-of-the-road scenario with little change in global and technological development trends.



HOT NEWS AND EVENTS

Members Awards, Newsletters and Media

Table of recent Newsletters received from network of societies and

Sep 2021	**QWALC Queensland Water and Land Carers**	email	https://mailchi.mp/qwalc/sept-29-2021-news-10524478?e=b0fb39dea8
July 2021	**BUTTERFLY & OTHER INVERTEBRATES CLUB Inc.** NewsBOIC 2021	PDF Issue 18	https://www.facebook.com/groups/187619097411/
Feb 2021	Brisbane's Big Butterfly Count	CitiSci project	https://biocollect.ala.org.au/acsa/project/index/aa5b05c5-041e-4e7d-9f6c-60feee565dfb
Sep 2021	Reef Check Australia CHECK UP!	email	https://www.reefcheckaustralia.org/adopt_a_reef?utm_campaign=around_the_reef_september_2021&utm_medium=email&utm_source=rca
5/11/2020	**Q'ld Conservation Council**	PDF	https://www.queenslandconservation.org.au/?utm_campaign=after_2020_election&utm_medium=email&utm_source=queenslandconservation
Sep 2021	Queensland Frog Society Inc. qldfrogs.asn.au **Frog sheet**	email	http://www.qldfrogs.asn.au/wp-content/uploads/2021/08/Frogsheet-Spring-2021-v2.pdf
Sep 2021	**Wildlife Preservation Q'ld my.Wildlife eBulletin**	PDF No. 164	https://mailchi.mp/c523a58445be/mywildlife-ebulletin161-2601451?e=f439d23ffd
Sep 2021	**TERN Ecosystem Research Infrastructure newsletter**	email	https://ternaustralia.cmail20.com/t/ViewEmail/t/2E75A193B5008BB32540EF23F30FEDED/6604CDD5080A53D822947492D9797BBC
Aug 2021	THE MORETON BAY FOUNDATION	email	https://us19.campaign-archive.com/?u=3186878e543411d68ba96d2c3&id=d2d6b7e9b4
Jul 2021	**Royal Society of Queensland Newsletter**	PDF Issue 18	https://www.royalsocietyqld.org/news-events/news/
Sep 2021	**QLD Fire and Biodiversity** ENEWS	PDF	https://mailchi.mp/239dc318e4ef/qfbc-e-news-8-september-2021?e=6b82157816
Sep 2021	**Australian Wildlife Society**	email	https://mailchi.mp/cf77db7d5594/managers-messages-september-2021?e=e6faa1f8d7
Sep 2021	**Healthy Land and Water** | Latest news and updates	PDF	https://mailchi.mp/hlw/healthy-land-and-water-latest-news-and-updates-2173273?e=7b45715f5b

DATE	Society	Edition	Web site
Aug 2021	Earth Observation Australia Inc.	pdf	https://mailchi.mp/d4781387f01c/aeomini-pechakucha?e=9c7203d5ad
Sep 2021	Australian Citizen Science Association | QLD	email	https://australiancitizenscienceassociation.cmail19.com/t/ViewEmail/j/FEDC7596DDA99E4D2540EF23F30FEDED/5E79204D8B70AA463D3F7F9A22A6E02E
Jul 2021	North Stradbroke Island MUSEUM on Minjerribah	email	https://stradbrokemuseum.com.au/wp-content/uploads/2021/07/Winter-Newsletter-2021-print-version.pdf
Aug 2021	Garden Clubs OF AUSTRALIA	Email	http://www.facebook.com/groups/781160769133413
May 2021	SEGRA SUSTAINABLE ECONOMIC GROWTH FOR REGIONAL AUSTRALIA	email	https://mailchi.mp/74796e8d0295/segra-walks-the-talk-april-2021-edition-64?e=756c6c34cd
Apr 2021	aela australian earth laws alliance	email	https://mailchi.mp/earthlaws/aela-in-april-1696813?e=41298490d9
Sep 2021	Atlas of Living Australia ala.org.au sharing biodiversity knowledge **Atlas of Living Australia**	email	https://www.ala.org.au/blogs-news/ala-newsletter-september-2021/
Sep 2021	QTFN Queensland Trust for Nature	email	www.qtfn.org.au
Aug 2021	ClimateWorks AUSTRALIA THE BRIEFING ROOM	email	https://us1.campaign-archive.com/?u=e4468912aefd2178843ddbc20&id=32596af423
Aug 2021	Daily Zooniverse NEWS FROM ACROSS THE ZOONIVERSE	email	https://daily.zooniverse.org/
Sep 2021	QCF Queensland Community Foundation A charitable trust	email	https://qcf.org.au/philanthropy-week/qcf-2021-philanthropist-of-the-year/qcf-2021-community-philanthropist-of-the-year-2/
Sep 2021	Inspiring AUSTRALIA Queensland	email	https://mailchi.mp/445ddd56b236/weve-got-5-x-double-passes-to-giveaway?e=f8b20aa3ba

DATE	Society	Edition	Web site
Aug 2021	birdlife AUSTRALIA	email	https://birdlife.org.au/images/uploads/e-news/2021/august/index.html

Happenings at The Royal Society of Queensland

Happenings at Australian Citizen Science

Happenings at the Queensland Frog

Happenings at Royal Geographic Society, Queensland

Happenings at Butterfly & Other Invertebrates Club Inc.

By Jen Acklin Organising Coordinator
I'm so excited to apply my experience organising across a variety of sectors to our work at QCC and with all of you.

During our Evening with the Minister in June, we pushed the Environment

Happenings at Queensland Conservation Council

Minister to reject the Morrison Govt's attempts to hand control of federal environmental protection laws (EPBC Act) to the states without adequately addressing serious shortfalls. The last Evening with the Minister was a great success and this is another great opportunity to push for change.

We want to add your voice to the Evening with the Minister - submit your question and RSVP now.

Happenings at Healthy Land and Water

Happenings at Wildlife Queensland

- One allocation that sounded alarm bells for Wildlife Queensland was **$22 million** for a business case for the proposed Borumba pumped hydro scheme located on Yabba Creek in the Sunshine Coast Hinterland. Should this scheme proceed additional pressures and threats to our wildlife and habitat will be a by-product.
- Significant funding was made available for renewables.

Funding allocated to the Department of Environment and Science:

- The Great Barrier Reef was a big winner with **$527 million**s in addition to existing funding for enhancing water quality.
- The Queensland Waste Management and Resource Recovery Strategy has been boosted with an additional **$24.2 million** annually.
- **$5.6 million** towards the delivery of the buildings and park infrastructure to support visitor recreation, management and access of parks and recreation areas jointly managed by traditional owners and departments.
- At least **$4.3 million** will be invested in high priority land acquisitions for the expansion of the protected area estate. It is rumoured three properties will be acquired, one in Cape York and two in western Queensland. This should be publicly confirmed by October 2021.
- **$3.8 million** has been allocated towards the replacement of major vessels for marine parks management.

More Funding for our Protected Area Estate

Des Boyland recommends that you send an email to your local MP and the Hon. Meaghan Scanlon MP, Minister for the Environment and the Great Barrier Reef and Minister for Science and Youth Affairs to say **we need more funding allocated to our Protected Area Estate, particularly our national parks, to help arrest the decline in biodiversity.**

Allied Communities activity

Community Data Collection, New Research Reports and Digital Apps

Council have partnered with one of Australia's largest citizen-science

Putting Queanbeyan-Palerang on the Map, (07 September 2021), by Queanbeyan-Palerang Regional Council

Council have partnered with one of Australia's largest citizen-science platforms, **NatureMapr,** to collect species sightings data from across our LGA.

The NatureMapr app is a platform that allows anyone to share species sightings of plants and animals in the Canberra and Queanbeyan-Palerang region, as well as several other locations across Australia.

Photos and audio recordings can be entered into the app and participants then tag their submission with a category or identified species. The submissions are then verified or corrected by moderators.

The sighting information added into this app by everyday residents, visitors and experts allows us and other organisations to learn more about the types of species, their populations and spread in our region.

“This app is a great opportunity for locals to get outdoors and share what they find in their own backyard. Being able to contribute to our understanding of species populations across QPRC will help us to create plans that better support native species,” said Mayor, Tim Overall.

The funding for this partnership came from the NSW Government’s Bushfire community recovery and resilience fund. New maps and datasets specifically for the QPRC area have been created and the data collected through this platform will inform future land management and bushfire mitigation strategies as well as mapping species recovery after high stress events.

The apps for Android and iOS have recently been updated, making it easier than ever to add your sightings.

Download the app and start mapping your findings today, it’s a fun way to share plants and animals you may know as well as those you don't.

Find more on our citizen-science page.

The Editor's excerpts from exceptional articles

Graphics (cartoon) Expressions used in science NEW

The Editor is interested in exploring various means with which to get out the STEM message and interest the younger science cohort. (Contributions welcomed.). It's the new artform for newsletters like this.

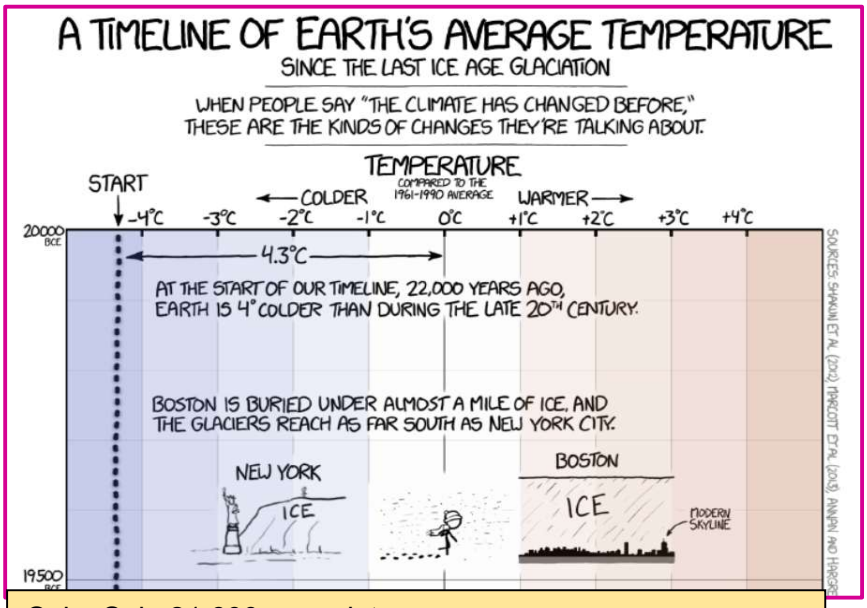
Comics in your inbox.

By definition, you're all at least vaguely interested in newsletters, so, have some newsletter news in your news newsletter: **Graphics is a big part of science storytelling**, and natural sciences uses hand drawn sketching for a lot of field work and coloured pencilling for interp. work. Maybe, I should add "in my day"! I dare say there are "apps" to supplement the creative expression (Like "Paint".).

Referring to Wikipedia; ; *A **cartoon** is a type of illustration that is typically drawn, sometimes animated, in an unrealistic or semi-realistic style. The specific meaning has evolved over time, but the modern usage usually refers to either: an image or series of images intended for satire, caricature, or humour; or a motion picture that relies on a sequence of illustrations for its animation. Someone who creates cartoons in the first sense is called a cartoonist, and in the second sense they are usually called an animator.*

About comic artist xkcd.com
Randall Munroe
Contact:;-orders@xkcd.com -- All store-related email.
press@xkcd.com -- Press questions, etc (may take a long time to get to me).
Note: You are welcome to reprint occasional comics pretty much anywhere (presentations, papers, blogs with ads, etc). If you're not outright merchandizing, you're probably fine. Just be sure to attribute the comic to xkcd.com.

(Image from https://xkcd.com/2501)

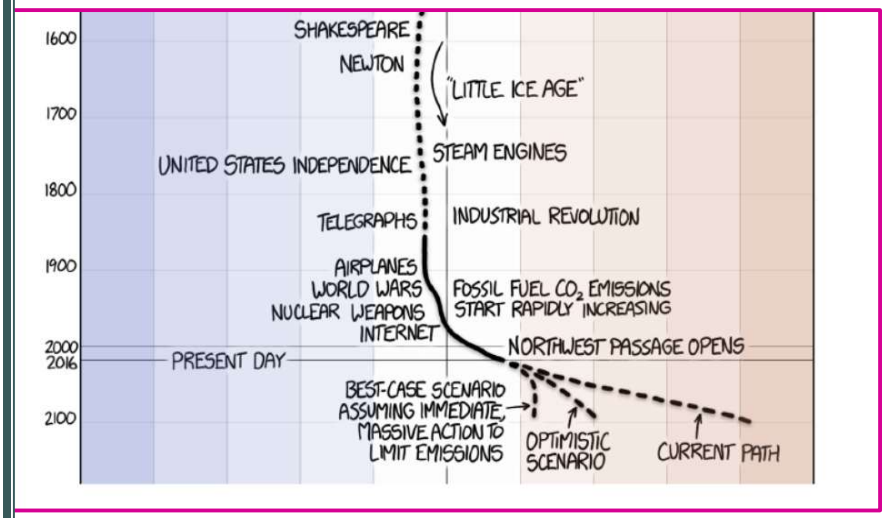


Snip. Snip 21,600 years later
(image https://xkcd.com/1732/)

This graphical representation of **time** (lhs) vs **Earth's average temperature**, over the past 20,000 years brings to your attention the radical Climate Emergency changes now confronting us.

Nature Portfolio. There is **an excellent YouTube video describing the illustration team at Nature,** (ref below) explaining the process of configuring a process into graphically intuitive display symbols. It is worth viewing. It describes a behind-the-scenes look at how to create scientific graphics that summarize the latest research. These kinds of images increase comprehension and provide valuable insight at-a-glance.

Botanical Painting

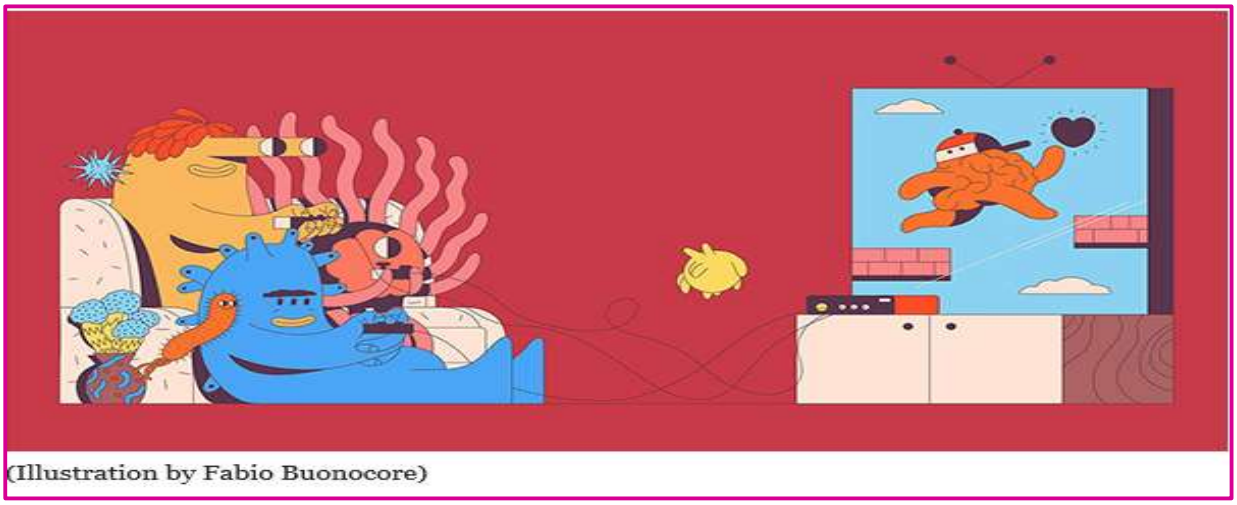


"In London, an extraordinary gallery draws gasps because there is none like it anywhere else. "(ref M. Voice below)

"All the paintings are by the Victorian-era female botanical artist and explorer Marianne North. Some 140 years later, we can explore her adventurous life and travels and view a global nature study in one gallery. With today's technology we can see much of it online, which is handy during lockdown."

.

Images have acted as crucial diagnostic tools since the late 20th century. Sophisticated technologies, such as X-Rays and MRIs, offer doctors a precise 'picture' of illness, but **autobiographical comics about illness**, known as 'graphic medicine', provide a different picture



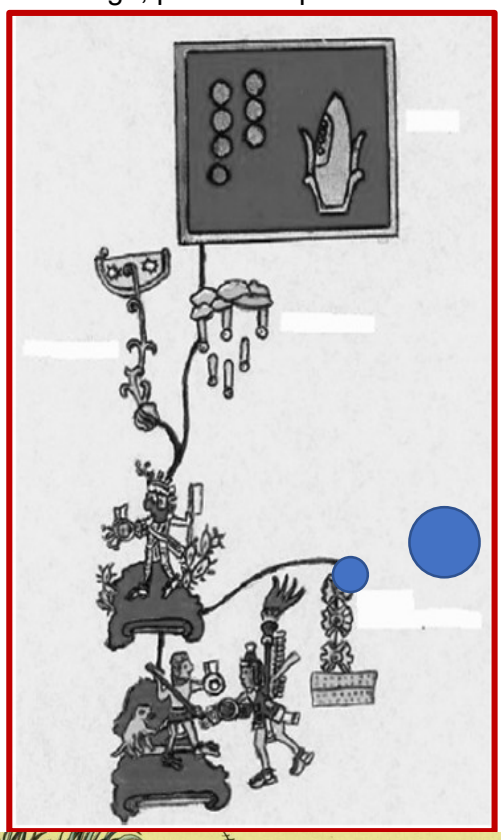
(Illustration by Fabio Buonocore)

How gut microbes could drive brain disorders. (Illustration by Fabio Buonocore)

In QSN Newsletter 2/2020 we reviewed this comic text for Solar System study. There is a free student workbook (in German) that can be translated easily using www.deepl.com. Download it for free Expedition Sonnensystem: Physik und Geographie (PDF, 45 MB) (Price is $CHF31 or $AU46.

How do you draw an earthquake?

The first written evidence of earthquakes in the Americas (Mesoamerica) is represented as pictograms in codices and annals drafted in the first few years after the Spanish conquest. The main source of earthquakes in pre-Hispanic times comes from the codex Telleriano-Remensis. There are 12 earthquakes reported in the Telleriano-Remensis, from 1460 to 1542.In these pictographic documents, pre-Columbian civilizations documented their religious and political organization, public and private traditions, their astronomical knowledge, public and private traditions, and natural phenomena.



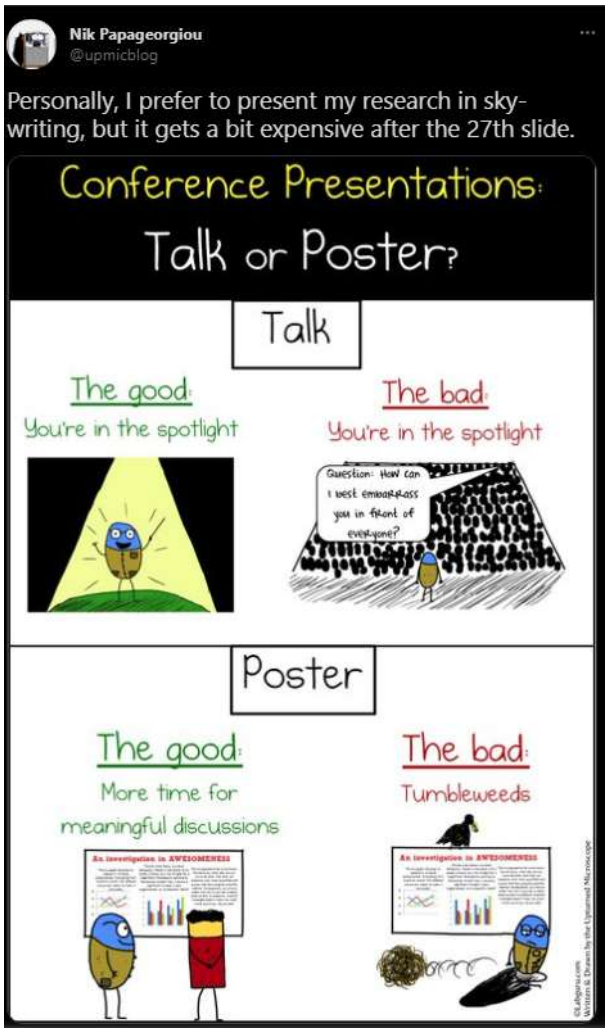
An earthquake on 7 Reeds or 1512. Three earthquakes or tlalollin glyphs are shown on top on the Earth. The representation shows battles, the presence of a snowstorm, and a volcanic eruption. These two phenomena occurred in the same year but perhaps not concurrently with the earthquakes.

Sophisticated storytelling software

Search out" **ODYSSEY FORMAT BY ABC NEWS STORY LAB**" . The storytelling software and application is a news artform!!

ABC NEWS has taken the overall prize at the prestigious international Information is beautiful awards in London, named the best in the world at data visualisation and digital storytelling. Out of all the entries in 2019, the ABC won the top award of Most Outstanding Outfit for excellence across its portfolio of stories, which were created by the ABC News Story Lab and the Digital Story Innovations team.

"The ABC has a long history of harnessing the power of creativity and the craft of storytelling to bring important stories to life on Australian screens," said Director, News Gaven Morris. "Its investment in digital storytelling through the work of the ABC News Story Lab and Digital Story Innovations team has been crucial to bringing that tradition to life in innovative new formats and on new devices."



Another scientist turned blogger/ cartoonist, reflects on laboratory and life and draws it in comic form. “They came to be through unemployment and disillusionment, and I’m still surprised by how popular they have become – especially since I can’t really draw, which I hear is an important skill for cartoonists.”

The Upturned Microscope

My name is Nik Papageorgiou. Yes, that’s Greek, and so is half my genotype. Back in the days of yore, I used to be a cell biologist with a PhD in neurodegeneration (think Alzheimer’s etc). I ran the gamut of academia (degree-postgrad-PhD-postdoc-despair), and now I work in science communications at EPFL. I love science, but I lament the current state of the scientific business.

https://www.facebook.com/photo/?fbid=417107363104120&set=a.261381952009996

Other comic science References;

Anon, (21 Nov, 2019), ABC NEWS best in the world at data visualisation and digital storytelling. https://about.abc.net.au/press-releases/abc-news-best-in-the-world-at-data-visualisation-and-digital-storytelling/

Kilvert N., Zander J., (6 Sep, 2021) Beautiful one day, uninsurable the next? https://www.abc.net.au/news/science/2021-09-06/sea-change-queensland-property-climate-change/100217278

Nature Portfolio (Aug, 2021), **How to create scientific graphics: an inside look from Nature, (https://www.youtube.com/watch?v=iQh63DH9H5w)**

Shannon Sandford, (2021), **“You Can’t Combat Nothing”** Allie Brosh’s *Hyperbole and a Half* and Reframing Mental Illness Through Webcomics **DOI:** https://doi.org/10.22029/oc.2021.1224 https://www.on-culture.org/journal/issue-11/you-cant-combat-nothing/

Suárez, G., and V. García-Acosta (2021). The First Written Accounts of Pre-Hispanic Earthquakes in the Americas, Seismol. Res. Lett. XX, 1–9, doi: 10.1785/0220210161.Downloaded from http://pubs.geoscienceworld.org/ssa/srl/article-pdf/doi/10.1785/0220210161/5391902/srl-2021161.1.pdf

Voice M., (Aug18, 20210If I could go anywhere: a world through the eyes of botanical artist Marianne North at Kew Gardens, https://theconversation.com/if-i-could-go-anywhere-a-world-through-the-eyes-of-botanical-artist-marianne-north-at-kew-gardens-165663

Grant Opportunities & Advertisements

Awards & Grants - Engaging Science Grants

Applications for the Office of the Queensland Chief Scientist's Engaging Science Grants (incorporating the Queensland Citizen Science Grants) are now open.

Grants of up to $20,000 are available to support successful applicants in delivering STEM-based engagement events and educational activities or conducting citizen science projects for up to 12 months. The Engaging Science Grants are being offered to increase public participation in science and engagement with scientists. Teachers, scientists and researchers, organisations, citizen science groups and community groups are encouraged to apply.

This grants program aligns with the newly refreshed Engaging Queenslanders in Science Strategy and applicants need to address at least one of the three goals listed in the strategy to be eligible to apply. You can read more about the grants and apply via the Office of the Queensland Chief Scientist's website. The grants close at 1pm on Monday 15 November 2021.

If you have any questions you can read the FAQ on the website or contact the office at info@chiefscientist.qld.gov.au or call 07 3199 7423.

Queensland Government

Applications now open for the ACF Fellowship

Do you want the skills, networks and know-how to get a foot in the door to social movements and civil society organisations working for the common good?
If yes, apply for the ACF Fellowship!

The ACF Fellowship is a six-month training and volunteering program for 23 budding change-makers to gain invaluable experience as part of Australia's biggest environment organisation.

If you're an emerging campaigner, storyteller, researcher, community organiser or grassroots leader keen to develop your skills, get hands-on experience and act for our forests, rivers, people and wildlife – the ACF Fellowship is for you.

Find out more about the ACF Fellowship program and start your application today.

AUSTRALIAN CONSERVATION FOUNDATION

Contact: QSN Newsletter

Colleagues and QSN Newsletter readers,

With the waning of Covid, we are witnessing more outdoor natural science activity. Virtual meetings haven't vanished though – maybe committees will treat them as the norm?

Feel free to make contact, and signify your support by sending advices of diary-daters, photos, field project reports, student's resources and citizen projects, **with links,** to me as "Editor - Queensland Science Network Newsletter".

How many of us have observed changes in our natural science society organisation, attributed to controlling Covid?

Find out more about other CitiSci activities and societies by looking at their websites, located on the "table of newsletters" or QSN website at Member Groups.

Any commentary on new topics to cover or graphics that enhance the comprehension of this great "co-operative" of scientific bodies, would be warmly received.

Contact Col Lynam (lynam@uq.edu.au) or (newsletter@scienceqld.org.au) or through "**RECEIVE OUR NEWSLETTERS**" on https://scienceqld.org/ or by Facebook "MESSAGE" https://www.facebook.com/QLDScienceNetwork/

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