

# Science & Society: Myths, Mayhem and Strategic Misunderstandings - What STEM Stakeholders Need to Know

## Trusted Sources by Topic

### Climate Change

#### Twitter Accounts

@khayhoe

Katherine Hayhoe is a climate scientist at Texas Tech and is a noted Christian Scientist. She talks a lot about balancing faith and science, is a leader in her field of research, and is a very reliable and relatable source for those of the southern, Christian, and/or conservative persuasions. She's very good at explaining issues and she is also very patient.

@realscientists

This twitter profile is hosted by a new scientist each week. They talk about their research, issues and misconceptions about their field, how to communicate with the public, and some of the ups and downs of academic life.

@undertheblog (and [undertheblog.org](http://undertheblog.org))

Justin Baumann's student-run ocean sciences blog. They discuss issues in climate and marine sciences in an accessible way. Plus they are all local graduate students.

@climateofgavin

Gavin Schmidt, climate scientist @NASA. If anyone is an expert on climate change it is this guy. He shows great data visualizations and is not afraid to confront issues and controversy. If he says it, you can trust it.

@putapriceonit

This is the twitter account for *Years of Living Dangerously*, the popsci tv program that advocates for action on climate change. The #putapriceonit campaign is focused on taxing carbon emissions to encourage a market transition to renewable. Citizens Climate Lobby (CCL) is an international citizen group that is helping with this initiative. There are many climate scientists (Justin Baumann included) in CCL.

@climatereality

The climate reality project, founded by Al Gore, is aimed at educating the next generation of climate change action advocates. They organize annual workshops around the country to teach people how to talk about climate change in engaging and positive ways. They also support student groups at the university level.

@UCSUSA

Union of Concerned Scientists. They advocate for action on many issues, including climate change.

@coralsncaves

Kim Cobb is a climate scientist at Georgia Tech. She talks about her work often, and she includes some sustainability and advocacy work that she is doing. She really helps people see the daily life of a scientist (mother, scientist, advocate, community member).

@GeorgeHLeonard

Chief scientist at Ocean Conservancy

@simondonner

He is a climate scientist at UBC. He is very good at talking to all audiences. Clear graphics. He also goes to international climate meetings (COP) such as the one we had in Paris (COP21- or the place where the "Paris Climate Accords" were signed).

@EPA

@Oceanwire

Curated news on ocean issues

@nature\_org

Nature Conservancy

@NOAA

### **Websites**

<https://skepticalscience.com/The-Scientific-Guide-to-Global-Warming-Skepticism.html>

Skeptical Science

<https://climate.nasa.gov/>

NASA Climate (this one is the easiest and best)

<https://www.climate.gov/>

NOAA climate (has a "teaching climate" tab at the top)

<https://astrobites.org/>

Grad students read new research papers and translate them for lay audiences.

<https://oceanbites.org/>

Grad students read new research papers and translate them for lay audiences.

<https://www.nature.com/>

One of the world's top science journals. The front page of the website features summaries of recent peer-reviewed articles. Nature focuses on high-impact work so this is a good way to stay current on the latest and greatest science.

## Genetically Modified Organizations

### Websites

<https://royalsociety.org/topics-policy/projects/gm-plants/>

Genetically modified (GM) plants: questions and answers. The Royal Society, the UK's version of the United States' National Academy of Sciences, has a very accurate book and website that explain answers to frequently asked questions about GMOs for lay audiences.

[www.nap.edu/catalog/23395/genetically-engineered-crops-experiences-and-prospects?utm\\_source=NAP\\_embed\\_book\\_widget&utm\\_medium=widget&utm\\_campaign=Widget\\_v4&utm\\_content=23395](http://www.nap.edu/catalog/23395/genetically-engineered-crops-experiences-and-prospects?utm_source=NAP_embed_book_widget&utm_medium=widget&utm_campaign=Widget_v4&utm_content=23395)

*Genetically Engineered Crops: Experiences and Prospects* (2016)

The U.S. National Academies of Sciences has a more in-depth book about GMOs that can be downloaded for free here.

<http://nas-sites.org/ge-crops/2016/05/04/appendix-f/>

This public-friendly U.S. National Academies of Sciences website points to answers to public questions about GMOs. Just click on the blue font page numbers next to a question/concern that you have and be taken to where the National Academies' researchers give detailed information.

<https://grist.org/series/panic-free-gmos/>

Of all the journalists who have written about GMOs, Nathanael Johnson is very open minded and accurate. This is his website with a series of his articles.

<https://cspinet.org/sites/default/files/attachment/biotech-faq.pdf>

The Center for Science in the Public Interest has a good pamphlet with accurate information about GMOs.

## Vaccines Research and Safety

### Websites

[www.cdc.gov/vaccines/index.html](http://www.cdc.gov/vaccines/index.html)

Centers for Disease Control & Prevention (CDC)

<https://nccih.nih.gov/health/vaccinations>

National Institutes of Health

[www.healthychildren.org/English/safety-prevention/immunizations/Pages/Vaccine-Studies-Examine-the-Evidence.aspx](http://www.healthychildren.org/English/safety-prevention/immunizations/Pages/Vaccine-Studies-Examine-the-Evidence.aspx)

American Academy of Pediatrics

[www.fbresearch.org](http://www.fbresearch.org)

Foundation for Biomedical Research

*Provides factual information about animal research*

[www.nabr.org](http://www.nabr.org)

National Association for Biomedical Research

*Provides factual information about animal research*

### **Sources of Misinformation:**

**Animal Liberation Front (ALF):** The Animal Liberation Front (ALF) is an international, clandestine leaderless resistance that engages in direct action in pursuit of animal rights. Activists see themselves as a modern-day Underground Railroad, removing animals from laboratories and farms, destroying facilities, arranging safe houses and veterinary care, and operating sanctuaries where the animals subsequently live. The FBI and others classify the group as a leader in domestic terrorism.