NORWICH PLANNING COMMISSION LAND USE SUBCOMMITTEE

Agenda

Regular Meeting Agenda Thursday, September 21, 2023 START TIME 6:30 pm in person at the Norwich Historical Society (no Zoom). ENTRANCE AT THE REAR OF THE BUILDING UP THE RAMP FROM THE PARKING LOT

1. Approve agenda

2. Comments from the public

3. Correspondence - Steve Gorman Statement - See packet
   Stuart Richards Submission - See packet - 1609 Scientists and Scientists Signed
   Climate Scare

4. Status of Town Plan Word doc

5. Review proposed edits

6.. Review Sections 1 (Purpose) and 2 (Land Use, 2.1-2.8)
   a. Suggest additional edits to the Town Plan Word Doc

7. Review and approve Draft Minutes of 8/24/23.

8. Richards Resignation

9. Adjourn

Stephen Gorman's Statement to the Norwich Planning Commission Land Use Subcommittee, August 24, 2023

"Nature is going to require reduction of human dominance over the world ecosystem. The changes this will entail are so revolutionary that we will be almost overwhelmingly tempted instead to prolong and augment our dominance at all costs. And, as we shall see, the costs will be prodigious. We are likely to do many things that will make a bad situation worse."

-William R. Catton, Jr., *Overshoot: The Ecological Basis of Revolutionary Change*

Planet Earth is a green and blue island in space threatened by rampant ecological destruction; growing geopolitical conflict over diminishing resources and habitable land; looming energy, mineral, and food shortages; and increasing numbers of ecological and geopolitical refugees numbered in the millions. Yet here in Norwich, we ignore the systemic nature of our planetary predicament. Instead, we concentrate on how to maintain the comfortable status quo – just powered by less carbon intensive technologies.

Focusing solely on carbon emissions is simplistic, mechanistic, and reductionist. It fails to acknowledge economic and population growth, along with the unrestrained consumption of the natural systems that support all life, as the primary driver of those emissions. By myopically focusing on carbon, we ignore the fact that climate change is just one of the many symptoms of planetary overshoot.

Overshoot is a meta-problem. In addition to climate change, other symptoms include biodiversity loss, desertification, faltering ocean circulation, land and soil degradation, tropical deforestation, ocean acidification, fisheries collapses, depleting aquifers, crop failures and food shortages, plastic and other chemical contamination of food chains, falling sperm counts, increasing cancer rates, mass migration, and pandemics. All of these environmental problems are symptoms of overshoot.

Overshoot means that humanity is consuming replenishable and self-producing resources faster than ecosystems can regenerate, and is producing waste (including carbon emissions) in excess of the ecosphere's assimilative capacity. In short, humanity has already exceeded the human carrying capacity of the earth. By overshooting planetary boundaries, humanity is depleting and contaminating the biophysical basis of our own existence.

Some argue that the “solution” to overshoot is more of the same -- we must deploy ever more technological “fixes” to prolong and augment our dominance over the earth. In other words, we must unleash the power and magic of the Technosphere. This is magical thinking. We don’t need more technology; we need to live within ecological boundaries. We need to respect bio and geophysical limits. It is now clear that a "business as usual, just powered by other means" model (i.e., electrifying the Titanic) will lead rapidly to ecological and thus civilizational collapse. Icebergs have been spotted dead ahead. We need to change our course, not our power sources.

Humanity has evolved to reproduce exponentially, expand geographically, and consume all available resources. To see the results of this evolutionary strategy, just look around. Turn on the news on any given day, at any given hour. The full beauty and splendor of both the Biosphere and the Ethnosphere is being shredded before our eyes. I have spent my career documenting what's left at this particular intersection, and I have seen and documented the devastation that modern techno-industrial society, or the Technosphere, has brought to our last wild places and our last contemporary cultures living in social solidarity with Nature.

It is an iron-hard fact that carbon emissions are correlated 1:1 with GDP and population growth. Our civilization has a built-in growth mandate and our economy is optimized solely for profits. It is built upon the infinite consumption of finite resources and materials, and is powered by burning finite fossil fuels. That will not change if we don’t change course. World final energy consumption in 2022 was 82% fossil fuels -- the same as it was in 1972 -- the year that *The Limits to Growth* was published.

Increasingly, industrial solar development is offered as the answer to our fixation on carbon emissions -- in spite of the fact that it will make every other symptom of overshoot worse. And, instead of replacing carbon emitting fuels, industrial solar merely adds to capacity. It allows and encourages us to increase our consumption of finite and depleting resources. Not only have we made no progress by relying on technology and efficiency in the last 50 years, we have more than doubled our carbon emissions since 1972.

Industrial solar causes massive land destruction from mining, imposes horrific environmental costs on local people and ecosystems, and is fossil fuel intensive at every step of its life cycle. From ore extraction, to smelting, to manufacturing, to transporting, to installation, solar burns massive quantities of fossil fuels. Despite record-breaking "alternative" energy installation world-wide last year, global carbon emissions smashed all-time records and reached all-time highs.

The energy provided by the sun and the wind is indeed renewable, but the industrial infrastructure required to capture it and turn it into useful power is not, it is *rebuildable*. But unfortunately, “renewable” energy systems cannot rebuild themselves. They cannot power the extraction, processing, and delivery of the vast amounts of concrete, steel, copper, cobalt, lithium and a host of other rare and finite resources required for their manufacture, maintenance, and eventual replacement. Moreover, we have neither the fossil fuel energy nor the minerals required to build, and then in twenty five years rebuild, the “renewable” energy infrastructure required to power this civilization.

As Professor William Rees of the University of British Columbia says, “It may well be that the best-case future will, in fact, be powered by renewable energy, but in the form of human muscle, draft horses, mules, and oxen supplemented by mechanical waterwheels and windmills.”

Here in Vermont, building industrial solar installations means destroying healthy ecosystems and tearing down the forests that are our life support systems, that define us, and that give us our sense of rootedness in this landscape we call home. Here in New England, we lose @ 30,000 acres of life supporting, self-replicating, carbon capturing and storing forest each year to development, increasingly including industrial solar.

This destruction cannot, and will not, continue. Rather than replace wild living green trees with industrial dead gray solar panels, rather than surrender the biosphere and the ethnosphere to the technosphere, we need to start saving every wild acre left, and begin rewilding wherever we can. We must not seek to prolong and augment our dominance over the planet’s ecosystem at all costs. Instead, we would be wise to alter our course, because if we don't, we will soon crash.

Meteorologists, Scientists Explain Why There Is 'No Climate Emergency'

Flawed modeling and overblown rhetoric drowning out scientific reality for the sake of money and power, climate experts say

Environmental activists participate in a Global Climate Strike march in Zagreb, Croatia, on Sept. 20, 2019. (Denis Lovrovic/AFP via Getty Images)

By Katie Spence
|
Sep 13, 2023
Updated:
Sep 15, 2023

There's no climate emergency. And the alarmist messaging pushed by global elites is purely political. That's what 1,609 scientists and informed professionals stated when they signedthe Global Climate Intelligence Group's "World Climate Declaration."

"Climate science should be less political, while climate policies should be more scientific," the declaration begins. "Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures."

The group is an independent "climate watchdog" founded in 2019 by emeritus professor of geophysics Guus Berkhout and Marcel Crok, a science journalist. According to its website, the organization's objective is to "generate knowledge and understanding of the causes and effects of climate change as well as the effects of climate policy." And it does so by objectively looking at the facts and engaging in scientific research into climate change and climate policy.

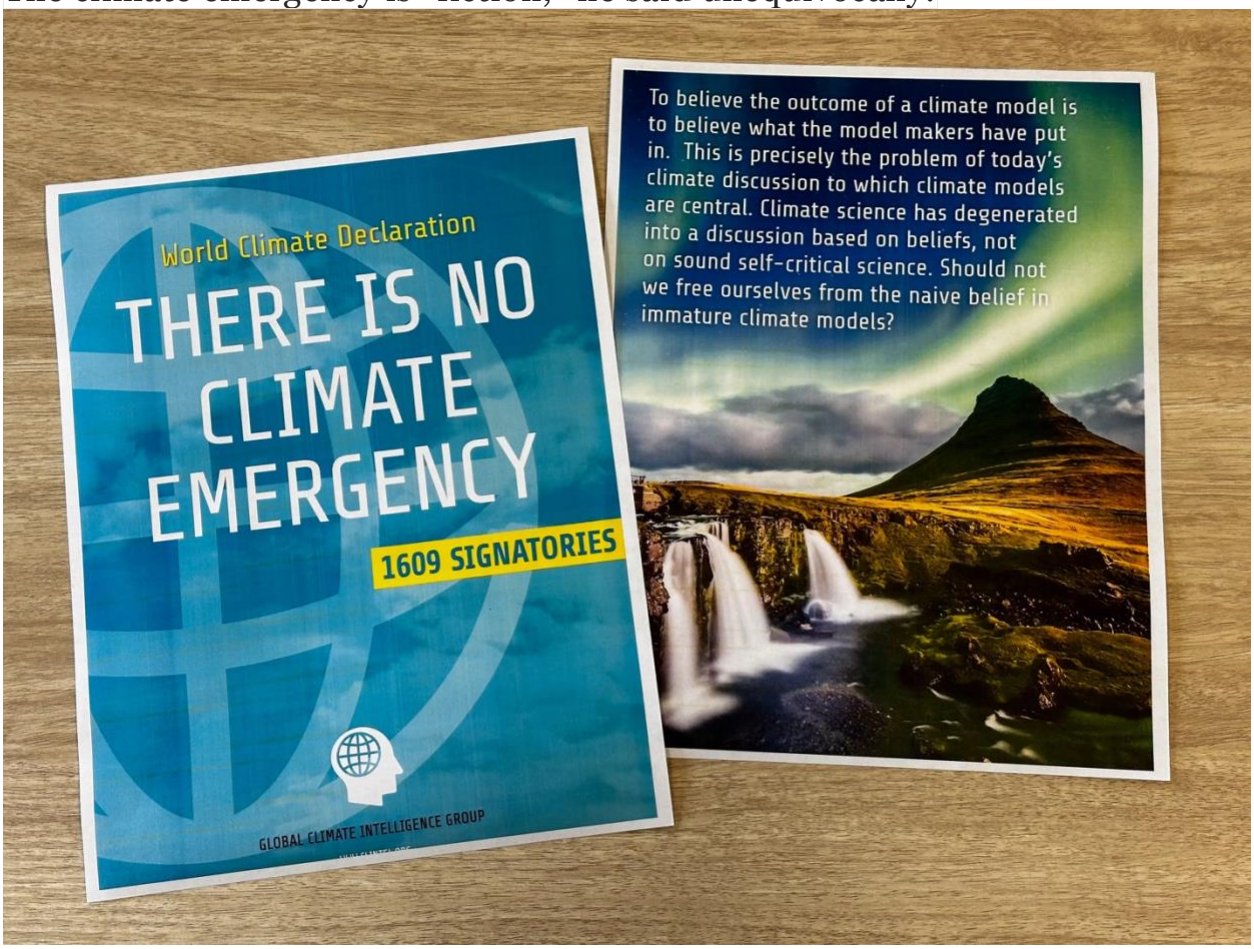
The declaration's signatories include Nobel laureates, theoretical physicists, meteorologists, professors, and environmental scientists worldwide. And when a select few were asked by The Epoch Times why they signed the declaration stating that the "climate emergency" is a farce, they all stated a variation of "because it's true."

"I signed the declaration because I believe the climate is no longer studied scientifically. Rather, it has become an item of faith," Haym Benaroya, a distinguished professor of mechanical and aerospace engineering at Rutgers University, told The Epoch Times.

"The earth has warmed about 2 degrees F since the end of the Little Ice Age around 1850, but that hardly constitutes an emergency—or even a crisis—since the planet has been warmer yet over the last few millennia," Ralph Alexander, a retired physicist and author of the website "Science Under Attack," told The Epoch Times.

"There is plenty of evidence that average temperatures were higher during the so-called Medieval Warm Period (centered around the year 1000), the Roman Warm Period (when grapes and citrus fruits were grown in now much colder Britain), and in the early Holocene (after the last regular Ice Age ended)."

The climate emergency is "fiction," he said unequivocally.



There were 1,609 scientists and informed professionals who signed the Global Climate Intelligence Group's "World Climate Declaration." (The Epoch Times)

The 'Climate Emergency'

Human activities and the resulting greenhouse gases are the cause of global warming, according to the Intergovernmental Panel on Climate Change (IPCC). Specifically, the IPCC says that in 1750, atmospheric carbon dioxide (CO_2) concentrations were 280 parts per million (ppm), and today, the atmospheric CO_2 concentrations are 420 ppm, which affects temperature.

The IPCC is the U.N. body for assessing the "science related to climate change." It was created in 1988 by the World Meteorological Organization and the U.N. Environment Programme to help policymakers develop climate policies.

Edwin Berry, a theoretical physicist and certified consulting meteorologist, said that one of the IPCC's central theories is that natural CO2 has stayed constant at 280 ppm since 1750 and that human CO2 is responsible for the 140 ppm increase.

This IPCC theory makes human CO2 responsible for 33 percent of today's total CO2 level, he told The Epoch Times.

Consequently, to decrease temperatures, the IPCC says, we must reduce human-caused CO2—thus, the current push by lawmakers and climate activists to forcibly transition the world's transportation to electric vehicles, get rid of fossil fuels, and generally reduce all activities that contribute to human-caused CO2.

That entire premise, according to Mr. Berry, is problematic.

"The public perception of carbon dioxide is that it goes into the atmosphere and stays there," Mr. Berry said. "They think it just accumulates. But it doesn't."

He explained that when you look at the flow of carbon dioxide—"flow" meaning the carbon moving from one carbon reservoir to another, i.e., through photosynthesis, the eating of plants, and back out through respiration—a 140 ppm constant level requires a continual inflow of 40 ppm per year of carbon dioxide, because, according to the IPCC, carbon dioxide has a turnover time of 3.5 years (meaning carbon dioxide molecules stay in the atmosphere for about 3 1/2 years).

"A level of 280 ppm is twice that—80 ppm of inflow. Now, we're saying that the inflow of human carbon dioxide is one-third of the total. Even IPCC data says, 'No, human carbon dioxide inflow is about 5 percent to 7 percent of the total carbon dioxide inflow into the atmosphere,'" he said.

So, to make up for the lack of necessary human-caused carbon dioxide flowing into the atmosphere, the IPCC claims that instead of having a

turnover time of 3.5 years, human CO_2 stays in the atmosphere for hundreds or even thousands of years.

"[The IPCC is] saying that something is different about human carbon dioxide and that it can't flow as fast out of the atmosphere as natural carbon dioxide," Mr. Berry said. "Well, IPCC scientists—when they've gone through, what, billions of dollars?—should have asked a simple question: 'Is a human carbon dioxide molecule exactly identical to a natural carbon dioxide molecule?' And the answer is yes. Of course!

"Well, if human and natural CO_2 molecules are identical, their outflow times must be identical. So, the whole idea where they say it's in there for hundreds, or thousands, of years, is wrong."

The belief that human CO_2 drives the CO_2 increase may be the biggest public delusion and most costly fraud in history.

Edwin Berry, physicist and certified consulting meteorologist

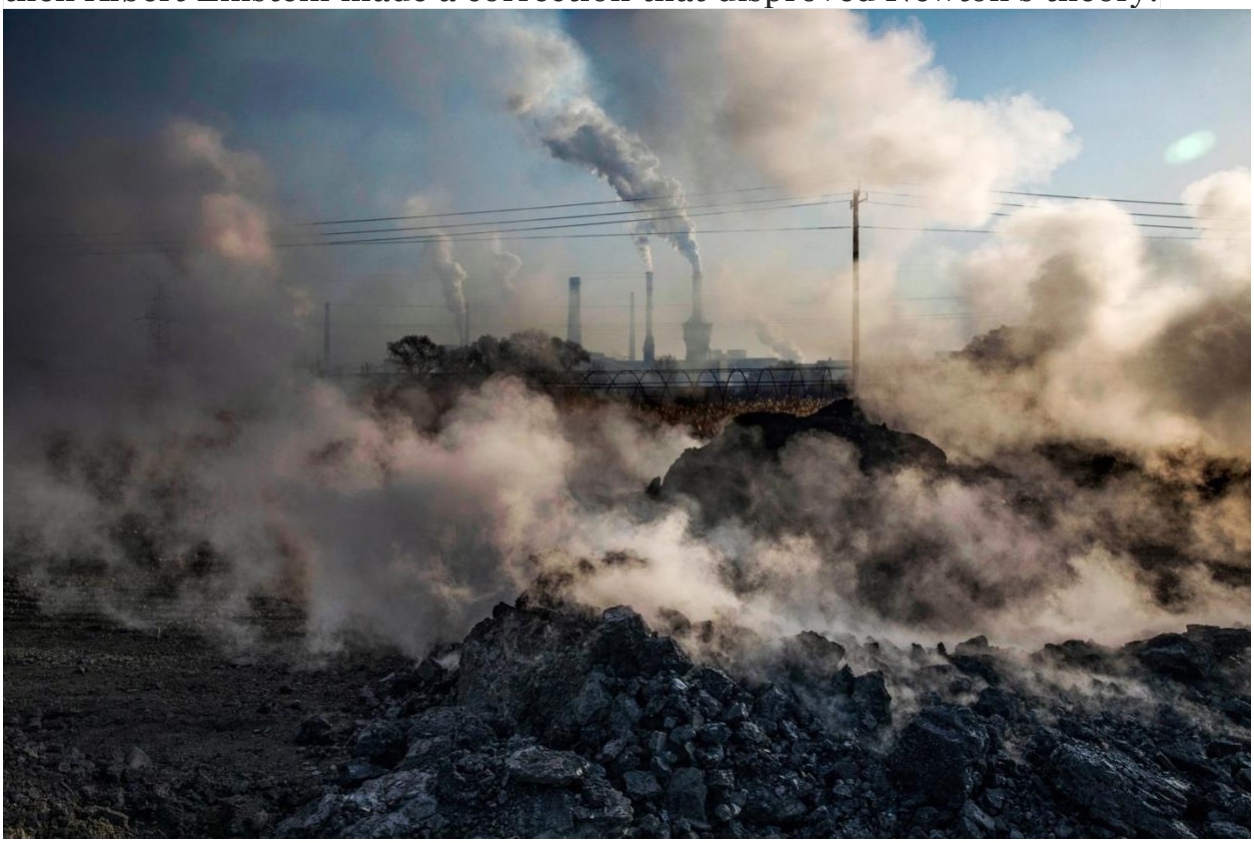
(Edwin Berry)

Mr. Berry said that means nature—not humans—caused the increase in CO_2. And consequently, attempts to decrease human CO_2 are pointless.

"The belief that human CO_2 drives the CO_2 increase may be the biggest public delusion and most costly fraud in history," Mr. Berry said.

He pointed out that in science, the scientific method says that you can't prove that a theory is 100 percent true—only that the data supports it—but

you can prove that it's false. Providing an example, Mr. Berry said that Sir Isaac Newton's gravity law was the preeminent theory for a long time, but then Albert Einstein made a correction that disproved Newton's theory.

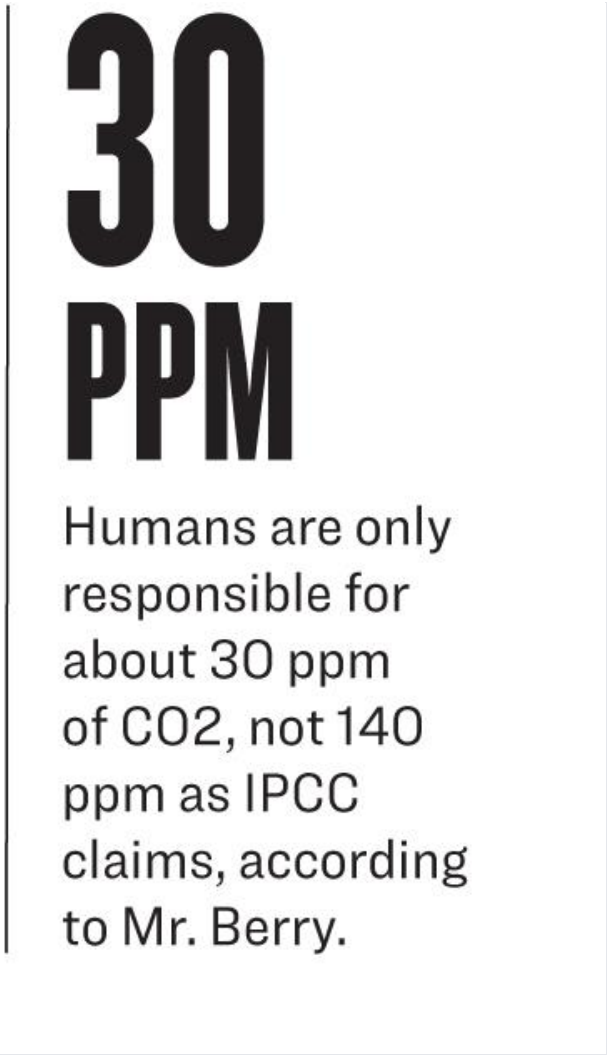


Smoke rises from a steel factory in Inner Mongolia, China, on Nov. 3, 2016. (Kevin Frayer/Getty Images)

"Go back to the scientific method: IPCC proposed a theory, and if we can prove it's wrong, we win. And I proved, in that case, their theory is wrong," he said.

Mr. Berry took his research a step further and calculated the human carbon cycle using the IPCC's own carbon cycle data.

"The prediction from the same model doesn't give humans producing 140 ppm. It comes out closer to 30 ppm. Which essentially means the IPCC is wrong," he said.



He said that using the IPCC's data, nature is responsible for about 390 ppm of CO_2, and humans are only responsible for about 30 ppm—not 140 ppm.

"Now, someone could ask, 'Well, is the IPCC data correct?' My answer is, 'I don't know.' But I don't have to know because IPCC has used this very data to deceive the world. I want to show that their logic is incorrect using their data," he said.

"The IPCC was not set up as a scientific organization."

Mr. Berry said that the IPCC doesn't engage in skepticism of its theories and, therefore, the scientific method that governs all science.

"They were set up as a political organization to specifically convince the public that carbon dioxide was causing problems," he said.

When asked why there's a push to declare a "climate emergency," Mr. Berry said it's all about money and control.

"That's the only real reason for it. There's no climate emergency," he said.
Mr. Berry makes all his research, and research and correspondence from colleagues trying to disprove his theories, available to the public.

People attend the 48th session of the Intergovernmental Panel on Climate Change (IPCC) in Incheon, South Korea, on Oct. 1, 2018. (Jung Yeon-je/AFP via Getty Images)

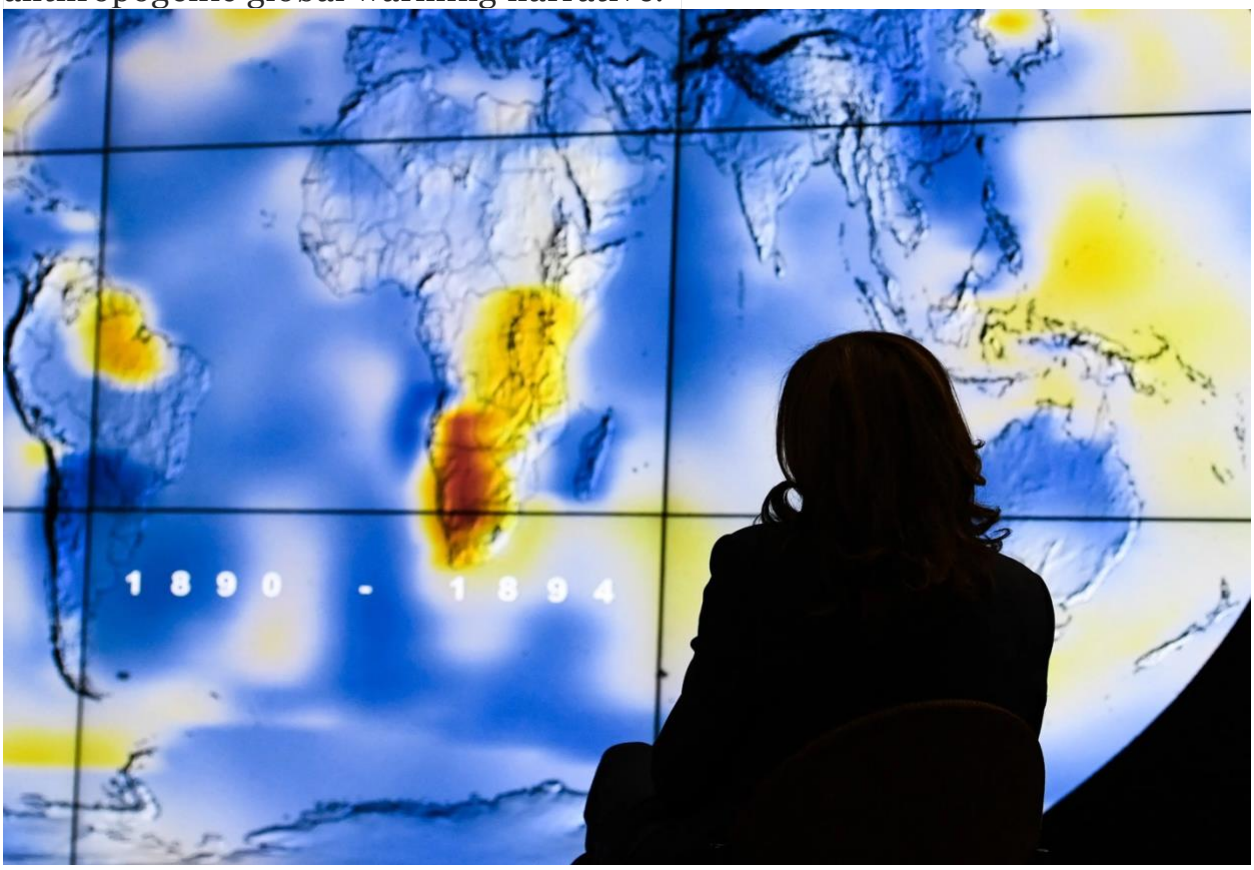
Politics and Climate Models

Like Mr. Berry, Mr. Alexander says that science has become more political than scientific.
"It's simply not true that the Earth's climate is threatened. That claim is far more political than scientific," he said.
"Science is based on observational evidence, together with logic, to make sense of the evidence. Very little, if any, evidence exists that human emissions of CO2 cause rising temperatures. There is a correlation between the two, but the correlation isn't particularly strong: The Earth cooled, for example, from about 1940 to 1970, while the atmospheric CO2 level

continued to go up. Computer climate models are all that connects global warming to CO2."

When asked why CO2 was singled out as the cause of the climate emergency, Mr. Alexander said it goes back to James Hansen, an astrophysicist and the head of NASA's Goddard Institute for Space Studies from 1981 to 2013, and an ardent environmentalist.

"Hansen developed one of the first computer climate models and began to make highly exaggerated predictions of future warming, none of which have come true," Mr. Alexander said. "This included testimony he gave at a 1986 Senate hearing, testimony considered to have sparked the subsequent anthropogenic global warming narrative."



Vice President Kamala Harris looks at a hyperwall during a climate change discussion at the National Aeronautics and Space Administration (NASA) Goddard Space Flight Center in Greenbelt, Md., on Nov. 5, 2021. (Olivier Douliery/AFP via Getty Images)

Despite his predictions failing to come to fruition, Mr. Hansen's efforts contributed to the founding of the IPCC, Mr. Alexander said.

"Although ostensibly the IPCC is a scientific body, the findings of its scientists are frequently distorted and hyped by the government and NGO

bureaucrats who dominate the organization," he said. "The bureaucrats have played a major role in exaggerating the scientific conclusions of successive IPCC reports and escalating the rhetoric of its official pronouncements. Hence, the U.N. secretary-general's recent proclamations about a 'boiling' earth."

> **The findings of [IPCC's] scientists are frequently distorted and hyped by the government and NGO bureaucrats who dominate the organization.**
>
> *Ralph Alexander, retired physicist*

(Science Under Attack)

On July 27, Secretary General António Guterres said, "Climate change is here. It is terrifying. And it is just the beginning. The era of global warming has ended; the era of global boiling has arrived. The air is unbreathable. The heat is unbearable. And the level of fossil fuel profits and climate inaction is unacceptable."

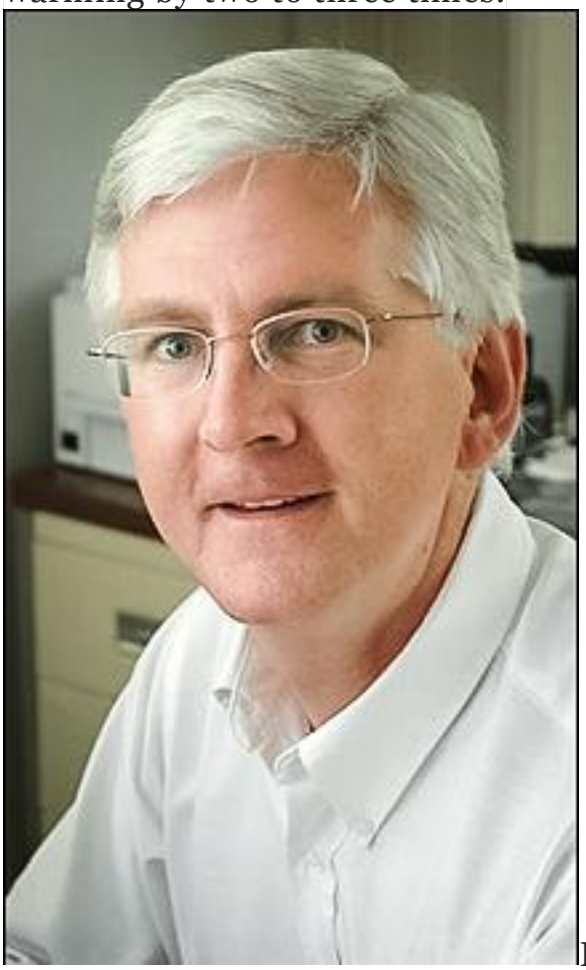
Mr. Alexander said an honest answer to what's causing Earth's warming is, "We just don't know right now," but that doesn't mean scientists are short of ideas.

"The chances of CO_2 being the number one culprit are very slim. CO_2 undoubtedly contributes, but there are several natural cycles that most likely do, too," he said. "These include solar variability and ocean cycles, both

ignored in climate models—because we don't know how to incorporate them—or represented poorly. While climate activists will tell you otherwise, climate science is still in its infancy, and there is a great deal we don't yet understand about our climate."

He said one example is a recent research paper that estimated that changes in the sun's output could explain 70 to 80 percent of global warming. Research such as that doesn't gain much traction because the IPCC is committed to the idea that human CO2 is the cause of global warming.

As further criticism, Mr. Alexander said John Christy, a climatologist and professor of atmospheric science at the University of Alabama in Huntsville and the director of the Earth System Science Center, has clearly demonstrated that climate models exaggerate short-term future warming by two to three times.

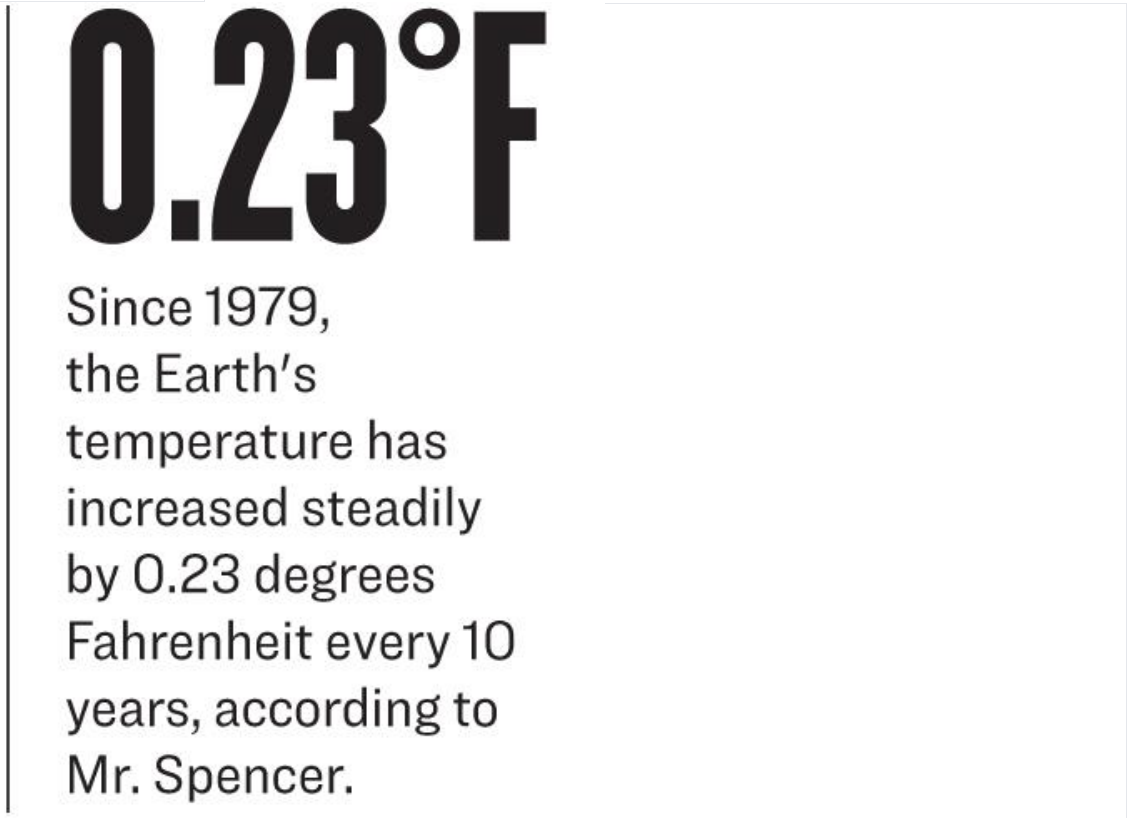


Roy Spencer, climatologist, former NASA scientist, and principal research scientist at the University of Alabama in Huntsville. (drroyspencer)

To find more accurate measurements, Mr. Christy and Roy Spencer, a climatologist, former NASA scientist, and now a principal research scientist at the University of Alabama in Huntsville, developed a global temperature data set from microwave satellite observations.

They started their project in 1989, analyzed data going back to 1979, and found that, in general, since 1979, the Earth's temperature has increased steadily by 0.23 degrees Fahrenheit every 10 years, according to global satellite data, Mr. Spencer said on his website.

As for why climate models are so inaccurate, Mr. Alexander said: "Computer simulations are only as reliable as the assumptions that the computer model is built on, and there are many assumptions that go into climate models. Assumptions about processes we don't fully understand require approximations.



"All these large-scale and small-scale approximations are incorporated in the model in the form of adjustable numerical parameters—often termed 'fudge factors' by scientists and engineers. The famous mathematician John von Neumann once said, 'With

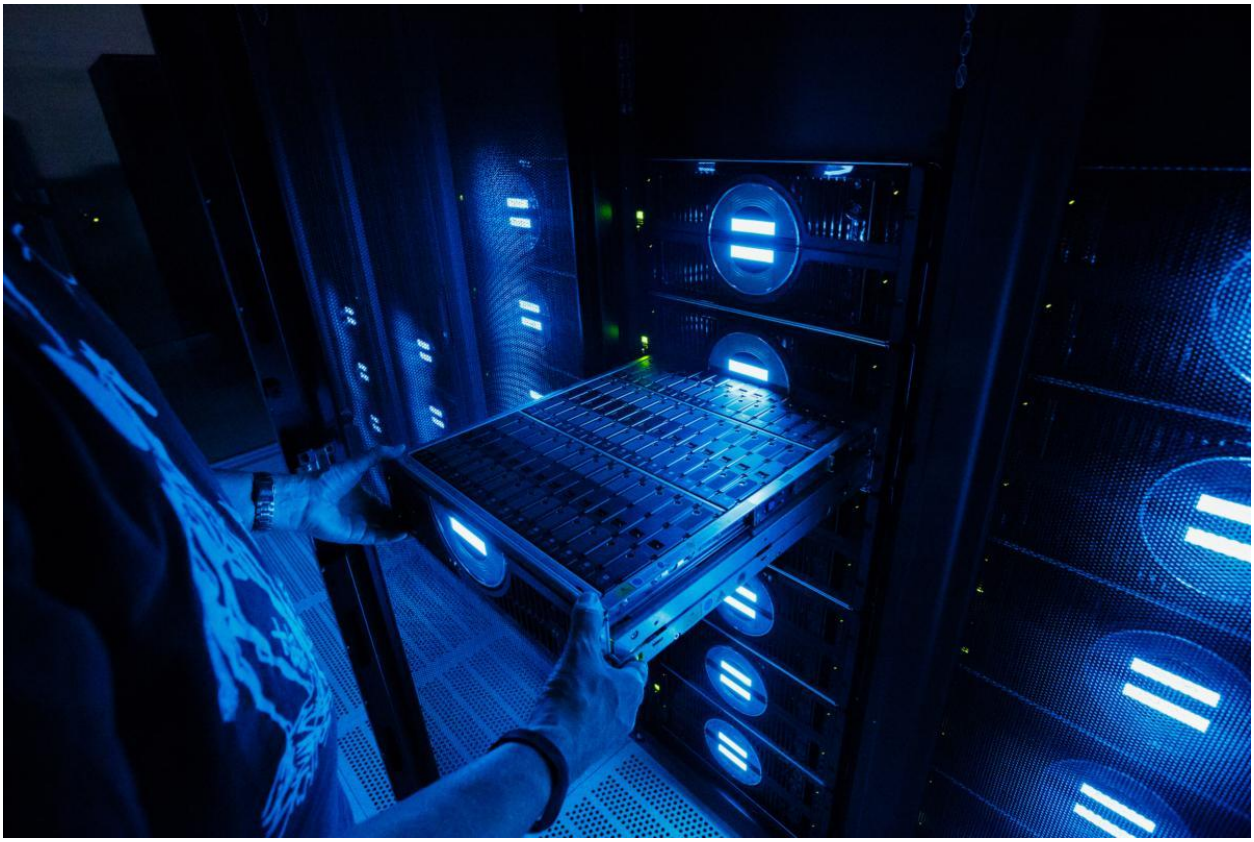
four [adjustable] parameters, I can fit an elephant, and with five, I can make him wiggle his trunk.'"

Mr. Neumann's saying means that people shouldn't be impressed when a complex model fits a data set because, with enough parameters, you can fit any data set.

Mr. Benaroya echoed Mr. Alexander's criticism but took it further regarding climate modeling.

"All climate model predictions have been wrong," Mr. Benaroya told The Epoch Times. "It is important to understand that a computational model of the atmosphere is inherently inaccurate. This is not the fault of the researchers.

"It is due to the enormous complexity of the climate—chemistry; fluid mechanics; heat transfer; effects of solar radiation; effects of the Earth; the modeling of the oceans, which can hold tremendous amounts of heat; and the effects of the clouds. No mathematical model put in a form to be analyzed by a computer can account for all these effects. Many of these effects are not fully understood. Also not understood is how these effects are coupled to each other."



A supercomputer at the German Climate Computing Center (DKRZ) in Hamburg, Germany, on June 7, 2017. The DKRZ provides high performance computing and associated services for climate research institutes in the country. (Morris MacMatzen/Getty Images)

Mr. Benaroya said that in addition to not fully understanding the complexity of the climate, what data is available is incomplete or, in some cases, manipulated to fit a narrative.

"There have been several reports about the rigging of the data to assure outcomes that point to the coming climate disaster," he said. "All the predictions have been wrong. I want the climate to be nonpolitical in science. Policies should be based on science. Policies is where the politics come in, not the facts."

There have been several reports about the rigging of the data to assure outcomes that point to the coming climate disaster.

Haym Benaroya, professor, Rutgers University

(Rutgers University)

As for why there's a push to declare a "climate emergency," Mr. Benaroya said it's about "power and money, but also larger political forces."

"[Some] may hate big industry, big oil, and technology. Maybe some hate the West or capitalism. All these likely play a role," he said.

Mr. Alexander agreed that it's about power and money.

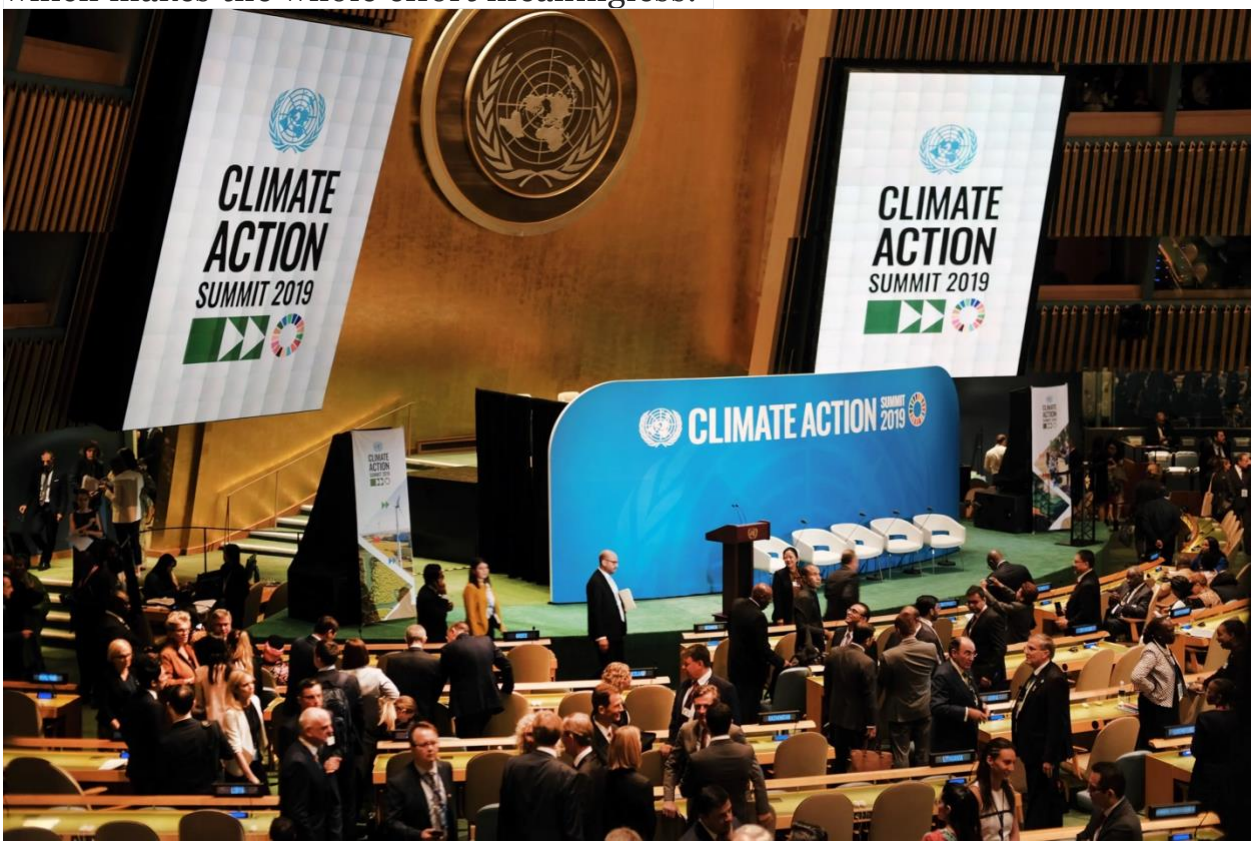
"In the beginning, the key phrase was simply 'global warming.' When that aroused little interest, someone came up with the clever idea of substituting the phrase 'climate change,' which was highly effective for a while, since the Earth's climate is constantly changing regardless of what the temperature is doing," he said.

"Then, when nonbelievers began to ignore the message again, the mantra became 'climate crisis.' That escalated into the current 'climate emergency,' hoping that the term 'emergency' would actually stir people into action and persuade them to back net-zero CO2 and other measures.

"Another element is the far left's desire to overthrow the whole capitalist system, which they regard as evil and the source of all society's problems.

For them, a climate crisis or emergency is a convenient vehicle to achieve their aims."

As for the United Nations' push for net-zero CO2 by 2050, Mr. Alexander said: "It's a complete waste of time and resources and may well impoverish many Western economies. China and India are not playing along in any case, which makes the whole effort meaningless."



World leaders and delegates gather at a summit to address climate change, at the United Nations Headquarters in New York on Sept. 23, 2019. (Spencer Platt/Getty Images)

Poverty and Human Health

Calvin Beisner, an expert in environmental ethics and the founder and national spokesperson for the Cornwall Alliance for the Stewardship of Creation, agrees that nature, not humans, causes most climate change. He said that the push to decrease CO2 by transitioning from fossil fuels to renewable energy is trapping people in extreme poverty worldwide.

"I have testified to committees of Congress that the amount of global warming that is attributable to human activity is so slight as to have little

impact on human well-being," Mr. Beisner, who testified before committees of the U.S. Senate and House, told The Epoch Times.

"But the attempt to reduce that warming by forcing a rapid transition from coal, oil, and natural gas to wind and solar and other so-called renewable energy sources would slow, stop, or reverse the time out of poverty for people worldwide. And poverty is a far greater risk to human health and life than anything related to climate."

Mr. Beisner explained that when people have wealth, they can thrive in "any climate from the Arctic Circle to the Sahara Desert to the Brazilian rainforest." But when people try to survive on a few dollars daily, they can't thrive in "even the best tropical paradise."

He said that economic development, owing partly to cheap fossil fuels, has allowed the populace to thrive in countries such as the United States as well as in Europe. But now, with the United Nations' push to net-zero CO_2 by 2050, developed countries are telling countries in Sub-Saharan Africa and parts of Asia and Latin America "to forego the use of abundant, affordable, reliable energy from fossil fuels that lifted the West out of poverty and restrict themselves to the use of diffuse, expensive, unreliable, wind and solar, and thus, slowing their rise out of poverty."

(Left) Smoke rises from the steel mill HKM Huettenwerke Krupp Mannesmann GmbH in Duisburg, Germany, on Jan. 6, 2017. (Right) Wind turbines operate at a wind farm near Whitewater, Calif., on Feb. 22, 2023. (Lukas Schulze/Getty Images, Mario Tama/Getty Images)

"This is the West forcing its ideology on the rest," Mr. Beisner said. "And it is ethically unconscionable. It's ironic that so many environmentalists who embrace progressive or woke ideologies, and therefore tend to condemn colonialism of the past, now embrace this Neo-colonial movement."

Like Mr. Alexander, Mr. Beisner pointed back to Mr. Christy's data on the Earth's global temperature and said: "We've come out of an ice age, or we are coming out of a little ice age that ran roughly 1350 to 1850.

"I agree with what their satellite data shows, which is that the rate of increase in global average temperature has been about 0.13 degrees Celsius per decade since the satellite records began in 1979. That would be about 1.3 degrees per century. Certainly, nothing that is going to cause a disaster for mankind."

He said that there's a push to declare a climate emergency because "politicians with poorly formed consciences find it easy to justify the growth of government power by appealing to fear of crisis or emergency, and the leading politicians in America today are far more hungry for power than they are committed to the good of the populace."

Politicians with poorly formed consciences find it easy to justify the growth of government power by appealing to fear of crisis or emergency.

Calvin Beisner, professor and founder, Cornwall Alliance for the Stewardship of Creation

(Cornwall Alliance)

Weather and Alarmist Rhetoric

Richard Lindzen, an emeritus professor of meteorology and the Alfred P. Sloan professor at the Massachusetts Institute of Technology, told The Epoch Times that the argument that there's an "existential threat" to the earth from increasing temperatures is a "purely political statement," since even the IPCC doesn't claim there's an existential threat.

Instead, the IPCC references scientists and climate activists who claim there’s an existential threat, but has never made this claim itself, Mr. Lindzen said.

Science never suggested that [there's a climate emergency].

Richard Lindzen, professor, Massachusetts Institute of Technology

"The [climate] models haven't even suggested it," he said. "And it arises from the fact that this was originally a political issue. And the politicians involved in it worry that their hysteria isn't catching the best. They keep shifting from the global mean temperature to extreme weather. And you know, they keep saying, 'Get worried, get worried! Panic!' But science never suggested that [there's a climate emergency]."

Mr. Lindzen said that even if those in power believed that there was an existential threat to the climate, the policies they've adopted to mitigate such a threat don't make sense.

"If you believe CO_2 is the villain and that we're facing an existential threat, net zero is the wrong policy. All the things done—electric cars are ridiculous. Look at how CO_2 is behaving. We've spent trillions so far, and it hasn't changed a bit. It's continuing to go up at the same rate," he said.

Volkswagen electric cars are parked in a storage tower in Dresden, Germany, on June 8, 2021. (Sean Gallup/Getty Images)

"The only purpose of the policies is to make the society poorer. And if you're poorer, you're less resilient. So if you believe CO2 is an existential threat and your policies are doing nothing to prevent it but are making you less resilient, one would have to ask, are you a pathological sadist?"

Mr. Lindzen said it's important to remember that the Earth is spherical, and the major climate change during the Last Glacial Maximum, about 20,000 years ago, didn't come from the greenhouse effect (meaning heat trapped close to the Earth's surface). Instead, it occurred due to the temperature difference between the tropics and the poles.

He explained that the wave-like motions traveling from west to east on weather maps, are convective motions that carry heat from the tropics to the poles.

"[Convective motions] try to establish a certain temperature distribution before they stop pumping," he said, explaining that the process is similar to heating a pot of water. The motion of the boiling water is the temperature

trying to eliminate the temperature difference between the heating at the bottom of the pot and the water on top.

Similarly, when the sun hits the Earth's surface, it hits it head-on at the equator but barely skims the surface at the poles. Thus, the Earth undertakes a similar action to the temperature in the pot of water and, essentially, tries to equalize the heat between the equator and the poles by distributing the temperature in waves. And that's what we understand as weather.

An iceberg was released by a glacier along the Scoresby Sound Fjord, Greenland, on Aug. 15, 2023. (Olivier Morin/AFP via Getty Images)

"If you have no ice, the surface will bring you to 20 degrees different centigrade [68 degrees F], which you had 50 [million] years ago. If you have a glacial maximum, it'll bring you to a temperature difference that's 20 degrees greater than today. But these have nothing to do with the greenhouse process," Mr. Lindzen said.

"No evidence exists that the tropics and pole temperature differences are changing. And that's what caused major climate change [in the past]. Whatever change we've seen is minimal and is due largely to what the tropics are doing."

Mr. Lindzen, like the others, said the push to declare a "climate emergency" isn't about science but money and power.

"You have to wonder about politicians, whether it's a form of psychosis," he said. "Maybe it's neuroses, sometimes. But I think the attraction of political power is not something normal people find irresistible."

Joe Bastardi, co-chief meteorologist at WeatherBell, a weather forecasting service, says the weather constantly searches for balance, or "dynamic equilibrium." But unlike Mr. Lindzen, Mr. Bastardi argues that we've seen a slight increase in temperature due to geothermal increases.

"In the geological timescale, we're in what you would refer to as a climate optimum, not a climate emergency," Mr. Bastardi told The Epoch Times. "There were several times when we saw this kind of warming in the past, and life thrived on the planet. I suspect the reason that past warming occurred is likely because the ocean warmed. And the oceans warmed, I think, because of increasing underwater volcanic activity."

He said a perfect example of his theory is the 2022 eruption of the underwater volcano Hunga Tonga, which sent the equivalent of 58,000 swimming pools worth of water vapor into the stratosphere and accounts for warmer-than-average weather in some areas during 2023.

Ash rising from a Hunga Tonga undersea volcanic eruption in Tonga on March 19, 2009. (Telusa Fotu/Matangi Tonga/AFP via Getty Images)

"Increases in the geothermal activity precede the increase in sea surface temperatures," he said. "Water vapor is the number one greenhouse gas. So if the oceans warm, you put more water vapor into the air. Consequently, you get the warming, and most of the warming is occurring away from the equator. And that's another clue because it's occurring where it's coldest and driest, and that's where water vapor has the greatest influence on temperature."

Returning to the idea of dynamic equilibrium, Mr. Bastardi explained that the atmosphere "fights back" when temperature changes occur.

"I mean, the biggest dirty little secret—and only a meteorologist who follows hurricanes would understand this—is that the trapping hotspots that [climate activists] were pushing in the 1990s never showed up over the tropics. They're over the Arctic, which is a very different response. That means that the atmosphere is fighting back," he said.

Mr. Bastardi forecasts that it'll be "very, very cold and very, very stormy this winter."

"If you do get warming in the Arctic, [cooling] is a natural response to the warming. These big El Niños have to go off when you build up the ocean heat. When they go off, I mean it's beautiful. You can see the rise in the temperatures as a step-up function directly correlated to the big El Niños," he said.

He said if the temperature rises due to geothermal activity, the increase is not man-made, and the push for net-zero CO_2 by 2050 is pointless.

"My judgment is that these people are pushing [a climate emergency] for a completely different reason than climate and weather," he said.

High school students hold placards and shout slogans as they take part in the Fridays for Future movement on climate change in Athens, Greece, on Nov. 29, 2019. (Angelos Tzortzinis/AFP via Getty Images)

Questioning the Narrative

"Climate is a composition of a whole lot of stuff that affects climate," Larry Bell, an architect known for designing and crafting inhabitable buildings for

space, and an endowed professor at the University of Houston, told The Epoch Times. "It's tough to model because we don't know all the proportions of different variables influencing [climate].

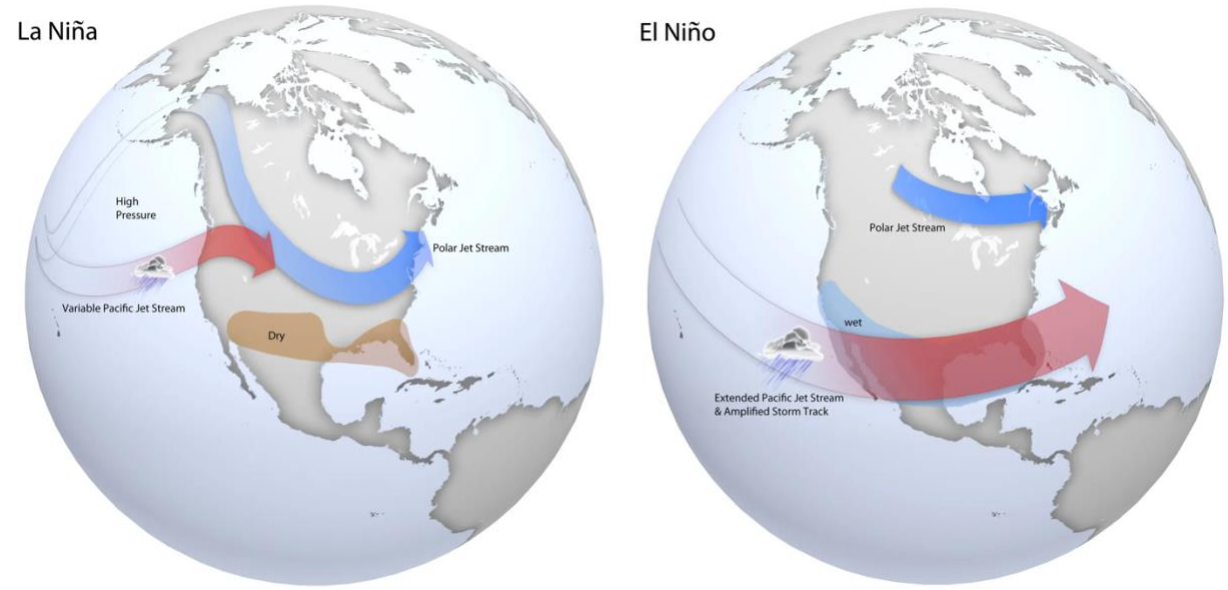
"Some variables operate over hundreds, thousands, tens of thousands of years, and have to do with our planet's position in the solar system, or position in the galaxy, and ocean changes that have nothing to do with the atmosphere—El Niño and La Niña, the effect of solar changes (which are magnetic changes that affect astrophysics)—so it's really complex, and a lot of what we call climate science is very specialized. People study one thing or another, but the studies aren't connected."

He said geologists, for example, look at long-term trends that reflect on rocks and geological formations, while mathematicians and astrophysicists look at climate differently. And none of the different disciplines can say they have it ultimately figured out because it's "devilishly complicated."

He said there were four decades of cooling following World War II, even though war-time efforts resulted in additional CO_2 in the atmosphere.

"So, the notion that there's some simple correlation between carbon dioxide and climate change is a convenient contrivance," he said.

Mr. Bell said he first got interested in climate change when Fred Singer, the founder of the U.S. Weather Satellite Service, visited him at his office in early 1979 and showed him that satellite weather data wasn't working as some had predicted.



An illustration showing the La Niña (L) and El Niño (R) events. (U.S. Dept of Commerce National Oceanic and Atmospheric Administration National Weather Service)

"He said weather satellites weren't showing the 'hotspot it'd predicted over the tropical troposphere,'" Mr. Bell said.

"The climate models were predicting that the atmosphere warms first and then the surface, and they predicted because of that a hotspot would be detectable over the equator, and they weren't finding it."

Mr. Bell said he didn't overthink climate change at the time, but as the years passed and he heard more about it, he started questioning the constantly changing narrative.

At first, there was concern that "the glaciers are coming" and global cooling would be a problem, but then 10 years later, the fears had flipped to "global warming," he said.

"Timothy Wirth, who helped organize a Senate hearing on global warming in Washington, famously told a magazine that they scheduled the meeting for what was typically the hottest day of the year, and the night before the meeting, they went in and opened all the windows and turned off the air conditioning," he said.

"And James Hansen ... heading the Institute for Space Studies, which was part of NASA, he came out and said, 'The planet is on fire, and we're causing it!' And this was part of the narrative because it was a prelude to pushing all this green energy stuff."

Mr. Bell said the claim that 97 percent of scientists agree that humans are causing global warming isn't truthful.

He said scientists agree that the climate is changing, but "there's no such emergency whatsoever."

"The climate has been warming in fits and starts since the last little ice age. And it may continue. But if you look at images of New York, at the shoreline there of the Statue of Liberty, the water hasn't risen. The sea level is not appreciably different than it was years ago. So that's anecdotal, but it's real. Your eyes can see it," he said.

Mr. Bell said another narrative pushed by climate alarmists is that the weather is getting more violent in the form of hurricanes and other weather-related disasters.

"All they have to do is look at the records. No, it's not worse! Hurricane seasons were much worse in the '30s. But they look in terms of fatalities or damage, and more people live on the coast now than there were then," he said.

People walk by damaged property in the aftermath of Hurricane Ian in Bonita Springs, Fla., on Sept. 29, 2022. (Sean Rayford/Getty Images)

Mr. Bastardi confirmed Mr. Bell's take: "The kinetic energy of hurricanes has been decreasing, and you can see that with the ACE [Accumulated Cyclone Energy] index—it's been lowering.

"What [climate alarmists] do is they're sort of predators in that they realize the average person doesn't have time to think and examine every little detail, especially in this day and age where people live paycheck to paycheck and are worried about their jobs.

"The everyday person isn't looking at the fact that there's 100 times more property value in the way, and inflation has gone through the roof, so that when a hurricane now is a place like Fort Myers or hits a place like Myrtle Beach, it's going to do much, much more damage than it did before."

When asked what concerns him most about the current narratives being pushed by climate alarmists, Mr. Bell answered: "I care about how climate hysteria, and how misinformation, drives policy. And these policies are driving our foundational bedrock policies that determine our economic well-being. They determine our national defense mastery—we won't run a Navy on ethanol. We're not going to run an Air Force on extension cords. It's just absolutely insane. People think of climate as science. No, it's not. It's the big lever of government. It's big globalism. And it ain't favoring the U.S.

"There's absolutely nothing more impacting, nothing more effective, I think, than leveraging the climate scare."

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World Climate Declaration

THERE IS NO CLIMATE EMERGENCY

GLOBAL CLIMATE INTELLIGENCE GROUP

WWW.CLINTEL.ORG

There is no climate emergency

Climate science should be less political, while climate policies should be more scientific. Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures

The geological archive reveals that Earth's climate has varied as long as the planet has existed, with natural cold and warm phases. The Little Ice Age ended as recently as 1850. Therefore, it is no surprise that we now are expe riencing a period of warming.

Natural as well as anthropogenic factors cause warming

The world has warmed significantly less than predicted by IPCC on the basis of modeled anthropogenic forcing. The gap between the real world and the modeled world tells us that we are far from understanding climate change.

Warming is far slower than predicted

Climate models have many shortcomings and are not remotely plausible as policy tools. They do not only exaggerate the effect of greenhouse gases, they also ignore the fact that enriching the atmosphere with CO2 is beneficial.

Climate policy relies on inadequate models

CO2 is not a pollutant. It is essential to all life on Earth. More CO2 is favorable for nature, greening our planet. Additional CO2 in the air has promoted growth in global plant biomass. It is also profitable for agriculture, increasing the yields of crops worldwide.

CO2 is plant food, the basis of all life on Earth

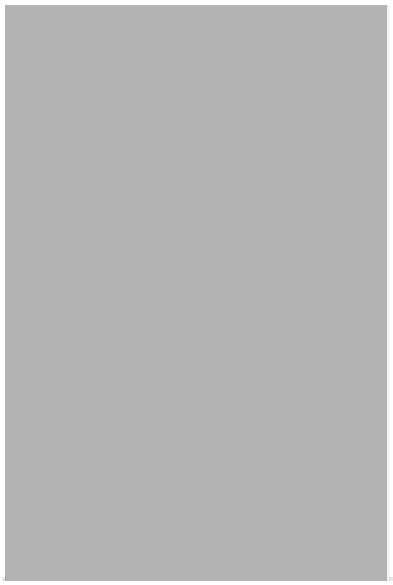
There is no statistical evidence that global warming is intensifying hurricanes, floods, droughts and suchlike natural disasters, or making them more frequent. However, there is ample evidence that CO2mitigation measures are as damag ing as they are costly.

Global warming has not increased natural disasters

There is no climate emergency. Therefore, there is no cause for panic and alarm. We strongly oppose the harmful and unrealistic net-zero CO2 policy proposed for 2050. Go for adaptation instead of mitigation; adaptation works whatever the causes are.

OUR ADVICE TO THE EUROPEAN LEADERS IS THAT SCIENCE SHOULD STRIVE FOR A SIGNIFICANTLY BETTER UNDERSTANDING OF THE CLIMATE SYSTEM, WHILE POLITICS SHOULD FOCUS ON MINIMIZING POTENTIAL CLIMATE DAMAGE BY PRIORITIZING ADAPTATION STRATEGIES BASED ON PROVEN AND AFFORDABLE TECHNOLOGIES.

Climate policy must respect scientific and economic realities



The undersigned: WCD AMBASSADORS

NOBEL LAUREATE PROFESSOR JOHN F. CLAUSER / USA
NOBEL LAUREATE PROFESSOR IVAR GIAEVER NORWAY/USA PROFESSOR GUUS BERKHOUT / THE NETHERLANDS
DR. CORNELIS LE PAIR / THE NETHERLANDS
PROFESSOR REYNALD DU BERGER / FRENCH SPEAKING CANADA BARRY BRILL / NEW ZEALAND
VIV FORBES / AUSTRALIA
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PROFESSOR SEOK SOON PARK / SOUTH KOREA
PROFESSOR JAN-ERIK SOLHEIM / NORWAY
STAVROS ALEXANDRIS / GREECE
FERDINAND MEEUS / DUTCH SPEAKING BELGIUM
PROFESSOR RICHARD LINDZEN / USA

HENRI A. MASSON / FRENCH SPEAKING BELGIUM
PROFESSOR INGEMAR NORDIN / SWEDEN
JIM O'BRIEN / REPUBLIC OF IRELAND
PROFESSOR IAN PLIMER / AUSTRALIA
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PROFESSOR BENOÎT RITTAUD / FRANCE
DR. THIAGO MAIA / BRAZIL
PROFESSOR FRITZ VAHRENHOLT / GERMANY
THE VISCOUNT MONCKTON OF BRENCHLEY / UNITED KINGDOM DUŠAN BIŽIC´ / CROATIA, BOSNIA AND HERZEGOVINA, SERBIA AND MONTE NEGRO

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TOTAL SIGNATORIES 1609

SCIENTISTS AND PROFESSIONALS FROM ARGENTINA

1. Mauro Borsella, Environmental Consultant & Auditor

SCIENTISTS AND PROFESSIONALS FROM AUSTRALIA

1. *Ian Plimer, Professor Earth Sciences, The University of Melbourne; WCD Ambassador*
2. *Viv Forbes, Geologist with Special Interest in Climate, Founder of www.carbon-sense.*

3. D. Weston Allen, Physician and Medical Director of Kingscliff Health, New South Wales, Author of a number of Climate-related papers

com, Queensland, Australia; WCD Ambassador

4. Don Andersen, Retired Teacher, Programmer
5. David Archibald, Research Scientist
6. Rick Armstrong, retired metallurgist and strategic planner
7. Michael Asten, Retired Professor in Geophysics and Continuing Senior Research

Fellow at the Monash University, Melbourne

8. József Balla, retired teacher and manager of a small business
9. Stuart Ballantyne PhD, Senior Ship Designer, Sea Transport Corp.
10. Jeremy Barlow, Energy and Mining professional, Director and CEO
11. Dr. Colin M. Barton, Geologist, Retired Civil Engineer with Experience in Project

Control, Research and Professional Training, Honorary Fellow RMIT University

Australia

12. Gordon Batt, Director GCB Investments Pty Ltd.
13. Maxwell Charles S. Beck, lifetime of experience in law, retired Magistrate and Coroner

on the bench

14. Robert M. Bell, Retired Geologist, Victoria
15. Karen Benn, Double major PhD Biologist and Environmental Scientist, Government

Policy, Educator and University Lecturer in Sciences, Biology, Environmental Sciences,

Water Quality and Water Resource Management

16. Richard Blayden, Professional Engineer
17. Colin Boyce, Engineer, Member of Parliament, Queensland State Parliament, Engineer,

Farmer and Entrepreneur
18. Howard Thomas Brady, Member Explorers Club of New York, Member of the

Australian Academy of Forensic Sciences

19. Geoff Brown, Organizer of a Critical Climate Group
20. Andrew Browne, Exploration Geoscientist, Fellow AusIMM (CP), 50 Years Global

Experience
21. Frank Brus, holds a B. Comm from UNSW, spent most of his working life with the

Electricity Commission of NSW

22. Ernest Buchan, Chartered Engineer MIET, Kardinya, W. Australia
23. Douglas Buerger, Fellow Australasian Institute of Mining and Metallurgy, Member of

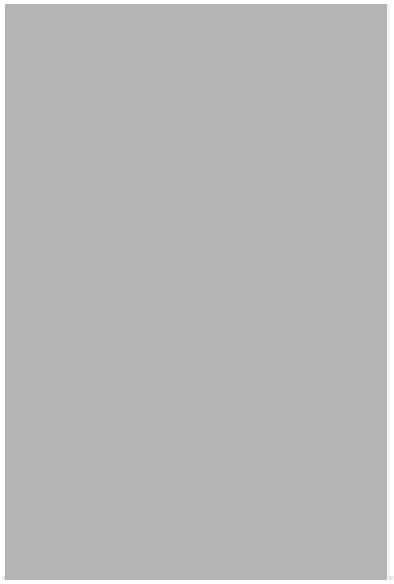
Australian Institute of Comapany Directors

24. Mike Bugler, Retired Environmental Consultant
25. Paul Buncle, Medical Practitioner
26. Charles Camenzuli, Structural Engineer specializing in Remedial Work, Catcam Group,

Sydney

27. Ray Carman, Organic Chemist, Honorary Fellow University of Queensland
28. Peter Champness, Radiologist
29. Andrew E. Chapman, Expert on Rainfall and Flood Events
30. Michael F. Clancy, Retired Civil Engineer, Brisbane
31. Martin Clark, Expert in Building Design, Planning and Landscaping, Townsville NQ
32. Richard Corbett, Member Royal Australian Chemical Institute, Member of The Clean

Air Society of Australia and New Zealand



33. Dr. Michael Creech, lifetime active as Geologist; Dr. Creech informs the public by giving presentations on Climate Change

34. Matt Crisanti BSc, UniSA, Science Faculty Coordinator at St. Columba College in 2008 35. Majorie Curtis, Retired Geologist, Stratigrapher and Palaeoclimatic Studies, Canberra 36. Eric Daniel, Retired IT Consultant
37. Arthur Day, Earth Scientist, Specialist in Geochemical Modelling of Volcanic Processes 38. Dr. Geoff Deacon PhD, MSc, BSc (hons), geologist, palaeontologist, advocate for

geological truth in Climate Science
39. David H. Denham, lifetime experience as Architect (B Arch), active in giving talks and

writing opinion articles on climate change
40. Geoff Derrick, Geologist
41. Trish Dewhirst, Retired Geologist, Queensland
42. Bevan Dockery BSc (UWA), Grad.Dip.Computing (Curtin U), Exploration Geophysicist

in minerals worldwide
43. Aert Driessen, Geologist, Fellow Australian Institute of Geoscientists
44. John A. Earthrowl, Retired Geologist, Brisbane
45. Mike Elliott, Dux of School in Mathematics, Co-Founder of Climate Realists of Five

Dock
46. Jeremy K. Ellis, Retired Chairman of BHP, now Chairman of the Saltbush Club Australia 47. Dr. Stephen David English, PhD in Crop Physiology from University of New England,

Retired Agricultural Scientist
48. Matthew J. Fagan, Founder and President of FastCAM Inc.
49. Paul S. Forbes, Financial Advice Specialist
50. Nick Franey MSc Mineral Exploration, Mineral Exploration Management Consultant 51. Dr. Rodney Fripp, Mining Geologist and Chemist by education, lifetime experience in

the fields of Mining and Exploration Geology, Analytical Chemistry and Physics of the

Earth
52. Michael Fry PhD, retired Professor, ex Head of School and Dean of IT
53. Christopher J.S. Game, Retired Neurophysiologist
54. Robin George, Geologist, Canterbury
55. David Gibson, Experimental Physicist
56. Andrew Gillies, Geologist
57. Gavin Gillman, Former Senior Principal Research Scientist with SCIRO Australia,

Founding Director of the IITA Ecoregional Research Centre in Cameroon for the

International Institute for Tropical Agriculture (IITA)
58. Paul R.C. Goard BSc Sydney University, Physics & Maths, + Two years geology, one year

Chemistry, member of the Australian Meteorological & Oceanographic Society
59. Brendan Godwin, Weather Observations and General Meteorology, Radio (EMR and

Radar) Technical Officer, Retired from Bureau of Meteorology
60. Hamish Grant, MR Spectroscopy & Imaging Consultant, Victoria
61. Dr. Kesten C. Green, Leading Researcher on forecasting Methods and Applications,

University of South Australia, first author of "Validity of Climate Change forecasting

for public policy decision making
62. Jeffrey R. Grimshaw MSc Information Technology specialising in computer modelling,

prediction, optimisation and advanced AI, Author of Trigger Warming, Everything You

Wanted To Know About Global Warming But Were Afraid To Ask
63. Guy Grocott MSc Engineering Geology, Retired Consulting Engineering Geologist/

Geotechnical Engineer
64. Lindsay Hackett BSc, Author of the paper "Global Warming Misunderstood"

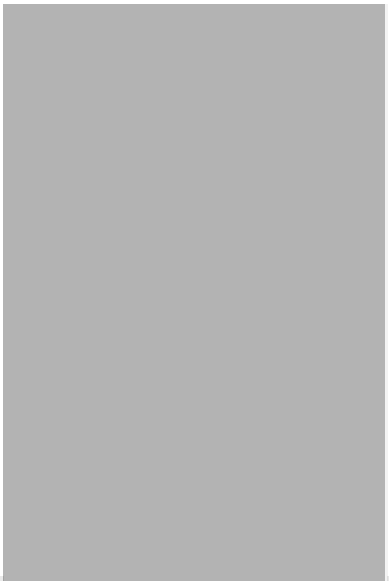
(https://www.scribd.com/document/383385011/) and the paper "The Impact of Greenhouse Gases on Earth's Spectral Radiance" (https://www.scribd.com/ document/529064626/), Founding Member of the Saltbush Club in Australia

65. Maureen Hanisch PhD, Biochemistry, Medical Research 1997, Australian National University, Retired

66. Erl Happ, Managing Director at Happs
67. John Happs, Geoscientist, Retired University Lecturer
68. Peter J.F. Harris, Retired Engineer (Electronic), now Climate Researcher
69. Paul Leonard Harrison, Geophysicist with an M.Sc in Geology and Geophysics, over

45 years experience in research and exploration for the geoenergy industry
70. Jarvis Hayman, Retired Surgeon, Recently retired Archaeologist and Visiting Fellow at

the Australian National University
71. Mark Henschke, Retired Geologist in Mining, Oil and Gas



72. Stewart Hespe, Consulting Civil and Forensic Engineer, Critic of Government Policy on Climate Related Matters

73. Gerhard Hofmann, Geologist and Palaeontologist, Former Director of the Geological Survey of Queensland

74. Robert Ian Holmes PhD in Climate Science/Mitigation, University Lecturer (retired) and Climate Scientist

75. Selwyn Hopley, MSSSI, Retired Land and Engineering Surveyor
76. Antonia HowarthWass, Mathematician
77. Geraint Hughes, Climate Researcher, Mechanical Building Engineer, Climate

Researcher
78. Douglas Hutchison BSc and MSc degrees in geology, consulting geologist in the mining

industry, member of the Australian Institute of Geoscientists
79. David Hyde MEnvSt, Environmental Biology, Former Scientific Chairman of Australian

Underwater Federation (NSW)
80. Paul Ingram, Qualified Geologist, Member of the Australian Institute of Mining and

Metallurgy, studying Palaeoanthropology and Human Evolution
81. Mr. Anthony Jackson, Bachelor of Arts degree, Bachelor of Laws degree, retired 82. Ian Johnson, Bachelor of Engineering, consultant
83. Mike Jonas, IT consultant, retired, frequent contributor to Watts Up With That? 84. Prof. Aynsley Kellow, Professor emeritus of Government, College of Arts, Law and

Education, University of Tasmania
85. Alison Kelsey PhD, Palaeoclimatogist and Archaeologist University of Queensland 86. Kevin Kemmis, Climate Researcher, Expert in Information Technology
87. Neil Killion, MA in Psychology, active in the climate debate, member of the Saltbush

club
88. Bill Kininmonth BSc (UWA), MSc (CSU), M. Admin. (Monash), Former Superintendent

of the Bureau of Meteorology National Climate Center
89. David Knox, IT professional, bachelors in business (Uni of South Australia) and a

Masters degree in business administration (Charles Sturt University)
90. Rosemarie Kryger PhD, Biochemistry, Retired, University of Queensland, Brisbane 91. Hugh H. Laird, Retired Tropical Agriculture Executive
92. John Leisten OBE, Expert in Physical Chemistry
93. Brian Levitan, Worked for NASA, now Technology Consultant to Multinationals 94. Ian Levy, CEO Australian Bauxite Ltd.
95. Matthew David Linn, Fellow of the Institution of Engineers of Australia
96. Ian Longley, Geologist, BSc (Hons) Petroleum Geologist, Fellow of the Geological

Society
97. Kevin A. Loughrey, LtCol(Ret'd) BAppSc, BE Mech(hons), psc, jssc, Grad Dip Strategic

Studies
98. Finlay MacRitchie, Professor Emeritus in the Department of Grain Science and

Industry at Kansas State University USA
99. John Ross May BSc, Adip, Cres., Management of Forests and National Parks in Victoria 100. Gerard McGann, Technical Director Eon NRG
101. Rodney McKellar, Retired Geologist, Queensland
102. John McLean, Author of First Major Review of HadCRUT 4 Climate Temperature Data,

Member of New Zealand Climate Science Coalition
103. Toby McLeay, General Medical Practitioner AM, MBBS, FRACGP, FACRRM
104. Ross McLeod, Retired Environmental Health Officer
105. Peter R. Meadows, Agricultural Scientist
106. Paul Messenger PhD, Earth Science
107. John Michelmore, Retired Industrial Chemist
108. Des Moore, Former Deputy Secretary of the Federal Treasury, Founder and Leader of

the Institute for Private Enterprise
109. Alan Moran, Contributor and Editor of the Mark Steyn Compilation: "Climate Change,

the Facts", Author of Climate Change: "Treaties and Policies in the Trump Era" 110. Hugh Morgan, Prominent Australian Mining Executive, Fellow of the Australian

Academy of Technology, Science and Engineering (FTSE)
111. Peter Murphy PhD, Adjunct Professor, Social Sciences, La Trobe University

(Melbourne) and the Cairns Institute, James Cook University
112. John Edward Nethery, Consultant Geologist, Bachelor of Science Fellow of

Australasian Institute of Mining and Metallurgy (Chartered Professional), Fellow

Australian Institute of Geoscientists, Fellow Society of Economic Geologists, Member

of Geological Society of Australia
113. John Nicol PhD, Retired Senior Lecturer Physics and one time Dean of Science, James

Cook University, North Queensland
114. Clifford David Ollier DSc, Geologist, Emeritus Professor of Geology and Honorary

Research Fellow at the School of Earth and Geographical Sciences, University of

Western Australia

115. Paul John O'Keeffe, MB, BS, FRCS, FRACS, Retired Surgeon
116. David Parsons B.E Mech. FIE Aust CPEng NER, Principal Design Engineer, specialised

in boiler design and gas radiation analysis

117. M. Louise Petrick MSc Applied Science, Materials and Welding Engineer
118. Alistair Pope PSc, CM, Sceptical Scientific Contrarian in the Climate Debate
119. Robert Pyper, Geologist and Director of Minnelex Pty Ltd.
120. Tom Quirk, Nuclear Physicist
121. Art Raiche PhD, Mathematical Geophysics, Retired CSIRO Chief Research Scientist
122. Campbell Rankine, Barrister and Solicitor
123. Peter Ridd, Oceanographer and Geophysicist
124. Tim Riley, Mining Geologist
125. John Cameron Robertson, Author of CO2 Feeds the World and The Climate Change

Delusion
126. Philip Lance Robinson, Chemical Engineer, lifetime experience in the aluminium and

steel industry

127. Nigel Rowlands, Retired from Mining and Exploration Industry
128. George (Rob) Ryan, Professional Geologist
129. Judy Ryan, Editor Principia Scientific Institution Australia
130. Robert Sambell PhD, Physics, Professional Geophysicist
131. Tony Schreck, Managing Director, 35 yrs experienced geologist, Member of the

Australian Institute of Geoscientists, Member of the Australian Institute of Company

Directors

132. Pasquale Seizis, Mechanical Engineer, climate critic
133. Jim Simpson, Retired from Managing Positions in different International

Telecommunications Firms, nowadays Convenor of 'The Climate Realists of Five Dock',

Sydney Australia."
134. Case Smit, Physicist, Expert in Environmental Protection, Co-Founder of the Galileo

Movement
135. Edward Smith, Charted Chemist, member of the Royal Australian Institute of

Chemistry (RACI), lifetime of experience in the Pharmaceutical industry 136. Lee Smith, University Lecturer in Spatial Technology, Responsible for State

Government Precise Monitoring of Sea Level and International Sea Boundaries

137. Peter Smith, Geologist (Retired), New South Wales
138. Darren Speirs, Independent Business Owner, Rangeland NRM Consultants
139. Geoffrey Stocker, Professor and Head of Department of Forestry, PNG University of

Technology, Director of PNG Forest Research Institute
140. John Stone, Former Head of the Australian Treasury and Executive Director of both

the IMF and the World Bank, Former Senator for Queensland in the Australian Parliament and Leader of the National Party in the Senate, Principal Founder of The H.R. Nicholls Society and the Principal Founder of The Samuel Griffith Society

141. Dr. Nancy Enid Stone, B.Sc (Hons), University of Western Australia. (1950), Ph.D Cantab. (1956), Retired Research Biochemist

142. Rodney R. Stuart, Retired Expert in Energy Industry, Tasmania
143. Roger Symons, Professional Engineer, Expert in Temperature Control of Industrial

Buildings
144. James Taylor, Electrical Aerospace and Astrophysics Engineer, Computer Modelling

Researcher

145. Rustyn Wesley Thomas, Retired Aircraft Engineer
146. Tony Thomas MA, BEc, journalist and author for more than 60 years
147. Baki M. Top, Senior Agricultural Scientist, Freelance Consultant Agricultural and Food

Production & Agribusiness

148. John W. Turner, Science Educator, Noosa Heads
149. Ralph J. Tyler, Retired Senior Principal Research Chemist, CSIRO, expert in conversion

of coal and natural gas to liquid fuel
150. Peter Tyrer, Project Controls Engineer in Mining Industry

151. Dr. Julian Vearncombe PhD, Geologist, Fellow Australian Institute of Geoscientists 152. Terrence Vincent, Security Engineer, Small Business Adviser AIST, ASIAL, SMBE 153. John Vucko, Bachelor of Electrical Engineering (Hons)
154. James Walter, Medical Doctor

155. John Warnock, Astro Economist
156. Chris Warren, Retired Engineer, Design and Construction of Dams and feasibility of

Coal Mines
157. Alan C. Watts, Medical Practitioner specialized in Effects of Infrasound on Human

Health
158. Colleen J. Watts, Retired Environmental Scientist with specialization in Aquatic

Chemistry and Environmental Consequences of Renewable Energy
159. Glyn Weatherall, Energy Resources Advisor
160. Neil Wilkins, Retired Geologist
161. Richard Willoughby, retired electrical engineer with thirty years experience in the

Australian mining and mineral processing industry
162. Lawrence A. Wilson, Professional Chemical Engineer, Melbourne
163. Michael Wilson PhD, DSc, Emeritus Professor, former Executive Dean UWS, Former

Chief Research Scientists CSIRO, Low Emissions Transport Fuels Leader
164. P.C. Wilson, Former Journalist with the A.B.C. Queensland
165. Philip Wood, Qualified Lawyer in four Jurisdictions (Australia, New York, UK and

Hong Kong), CEO of two ASX-listed Companies operating in the Mining and Minerals

Processing Fields
166. Michael Wort, BSc Mining Geology, MSc Mineral Process Design, PhD Mineral

Technology, Geologist interested in impact of high levels of atmospheric levels of CO2 as trigger for formation of limestone deposits

SCIENTISTS AND PROFESSIONALS FROM AUSTRIA

1. Dr. Gerhard Kirchner, Berg Ingenieur, Climate Realist
2. Dipl Ing, Dr rer techn Heribert Martinides, European Space Agency, retired
3. Rudolf Posch PhD, Retired Software Engineer of a Technical Multinational, Expert in

Nonlinearities and Feedbacks
4. Dr. Eike Roth, retired physicist, author of several climate books, latest one in press:

"Das große Klimarätsel: Woher kommt das viele CO2?"
5. Hans Dirk Struve, Dipl. Ing., Mechanical Engineer with large experience in business 6. Konrad Falko Wutscher, Doctor of Engineering Sciences, specialist in treatment of

water and wastewater

SCIENTISTS AND PROFESSIONALS FROM BANGLADESH

1. Aftab Alam Khan PhD, Active Professor Geological Oceanography, BSMR Maritime University, Retired Professor of Geology and Geophysics of Dhaka University

SCIENTISTS AND PROFESSIONALS FROM BARBADOS

1. Fred Corbin, Director of CSW Engineering 2000, a company that is leading the Caribbean Region in Sustainable Economic Project Design, and co-founder of The FREEWINDS organization that is aiming at the enhancement of the economic opportunities of the 18 Caricom Territories

SCIENTISTS AND PROFESSIONALS FROM BELGIUM

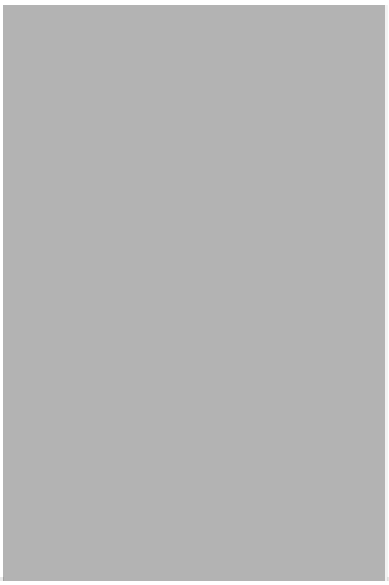
1. *Henri A. Masson, Professor Emeritus Dynamic System Analysis and Data Mining, University of Antwerp, French speaking Belgium; WCD Ambassador*

2. *Ferdinand Meeus, Retired Dr. Sc (Chemistry, photophysics, photochemistry), IPCC Expert Reviewer AR6; WCD Ambassador*

3. Rudy Berkvens, Information Security and Quality Management Auditor in ICT and Aviation, Commercial Pilot, Flight Instructor

4. Eric Blondeel, Retired Civil Engineer
5. Emiel van Broekhoven †, Emeritus Professor of Economics, University of Antwerp 6. Christophe de Brouwer MD, Honorary Professor of Environmental and Industrial

Toxicology, Former President of the School of Public Health at the Université Libre de Bruxelles



7. Alexandre G. Clauwaert, Brussels polytechnic, civil engineer AiBr and Insead Cedep general management program, Former VP marketing & communication nv AGM sa Antwerp, VP customer relations Electrabel distribution, VP group strategy & development Suez Tractebel sa Brussels & Paris, VP strategy Suez/Engie, Corporate auditor Engie

8. Rudi Creemers, Eur. Ing. MSc Electronics-ICT, Network engineer/manager
9. Benjamin Damien, Docteur en Biologie et Entrepreneur en Biotechnologie
10. Ferdinand Engelbeen, Former Chemical Process Automation Engineer, Akzo Nobel

Chemicals

11. Samuel Furfari, Professor of Energy Geopolitics at the Free University of Brussels
12. Georges Geuskens, Emeritus Professor of Chemistry, Free University of Brussels and

Expert Publicist on Climate Science

13. Drieu Godefridi PhD, Law, Author of several books
14. Jan Goffa, Civil Engineer Applied Mechanics, Retired lecturer in thermo- and

aerodynamics
15. Dr. Volkmar Hierner, degree in business administration and economy, retired coach of

companies in increasing the effectiveness of their organization

16. Jan Jacobs, Science Journalist specializing in Climate and Energy Transition
17. Guy Janssen MSc Applied Sciences (civil engineer electromechanics), MSc Nuclear

Engineering, Reactor Sciences, experienced conventional electric power expert
18. Raymond Koch, Retired Research Director at Lab. Plasma Physics, RMA Brussels and

Fellow Lecturer at Umons

19. Rob Lemeire, Publicist on Environmental and Climate Issues
20. Jean Meeus, Retired Meteorologist, Brussels Airport, Author of the Best Seller

Astronomical Algorithms
21. Ernest Mund, Honorary Research Scientist, Honorary Research Director, FNRS,

Nuclear Engineering

22. Bart Ooghe, Geologist & Geophysicist, Independent Scientist
23. Luc Opdecamp, "The agronomist-philosopher" (independent researcher), Agronmist

(Soil science)

24. Jaak Peeters, Psychologist and Writer
25. Eric Perpète, Microcomputed Tomography Scientist, FNRS Senior Research Associate

in Chemical Physics

26. Dr. Hugo Poppe, Emeritus hoogleraar, Weer- en Klimaatkunde, KU-Leuven, 1966-2002
27. Alain R. Préat PhD in Geology, Emeritus Professor at Université Libre de Bruxelles
28. Phil Salmon, Computer Tomography Scientist, Kontich
29. Jozef Verhulst PhD, Chemistry, Author
30. Jean van Vliet, Retired Specialist in Space Weather
31. Dr. Marc Wathelet, PhD in Molecular Biology, Free University of Brussels
32. Appo van der Wiel, Senior Development Engineer

SCIENTISTS AND PROFESSIONALS FROM BOLIVIA

1. Ambassador Jose Brechner, retired Congressman and Ambassador for the Bolivian Government, Chair of the Foreign Affairs Committee, currently Syndicated Columnist and Senior Political Analyst

SCIENTISTS AND PROFESSIONALS FROM BRAZIL

1. *Dr. Thiago Maia, Nuclear Physicist, PhD in Astrophysics; WCD Ambassador*
2. Dr. Peter Brian Bayley PhD, lifetime experience in Aquatic Ecology and Fisheries,

retired from Dep. Fisheries & Wildlife, Oregon State University
3. Jose Nestor Cardoso, Professor on first oceanography course in Latin America,

Pioneer on Brazilian expedition to Antartic, First scientific diver for Brazil from CMAS 4. Mario de Carvalho Fontes Neto, Agronomist, Editor of 'The Great Global Warming

Swindle'
5. José Bueno Conti, Geographer and Professor of Climatology, Full Professor of the

Geography Department at the University of Sao Paulo (USP)
6. Dr. Johnson Delibero Angelo, Master and PhD in Material Science, Industrial Chemist,

Emeritus Collaborating Professor of Postgraduate Studies in Mechanical Engineering at UFABC

7. Prof. Dr. Ricardo Augusto Felicio BSc Meteorology - USP, MSc Antarctic Meteorology and Satellites - INPE, PhD in Climatology - Physical Geography - USP

8. Richard Jakubazsko, Executive Editor of Agro DBO Magazine and Co-Author of the Book 'CO2, Warming and Climate Change: Are you kidding us?'

9. Dr. George Lentz Cesar Fruehauf, BSc Doctor of Sciences – USP, MSc Meteorology – SJSU, expert in environmental engineering

10. Agnaldo Martins, professor and researcher at the Department of Oceanography and Ecology at the Federal University of Espírito Santo

11. Luiz Carlos Badicero Molion, Emeritus Professor of the Federal University of Alagoas (UFAL), Formerly of the National Institute of Space research (INPE)

12. Prof. Marcos José de Oliveira, Environmental Engineer, Master in Climatology, Author of research articles about climate cycles and natural causes of climate change

13. Fernando Paiva PhD Animal Science, Full professor at the Federal University of Mato Grosso do Sul

14. José Carlos Parente de Oliviera, Physicist, Professor at the Federal Institute of Education, Science and Technology of Cearà (IFCE), Retired Associate Professor of the Federal University of Cearà (UFC)

15. Guilherme Polli Rodrigues, Geographer, Master in Climatology, Environmental Consultant

16. Adelino De Santi Júnior, BSc Biology and Ecology, MSc Applied Ecology, Biologist, works with environmental education, licensing, restoration, sustainability management and staff supervision

17. Geraldo Luis Saraiva Lino, Geologist, Author of 'How a Natural Phenomenon Was Converted into a False Global Emergency'

18. Marcello Silva Sader, Graduated in Veterinary Medicine and Computer Sciences
19. Daniela de Souza Onca, Professor of the Geography Department of the State University

of Santa Catarina (UDESC)
20. Igor Vaz Maquieira, Biologist, Specialist in Environmental Management

SCIENTISTS AND PROFESSIONALS FROM BULGARIA

1. Ivan Daraktchiev MSc Applied Science (Electronics engineering, Chemistry, Physics), Independent Researcher

2. Fabrice Toussaint, lifetime of experience in the Geo-Energy Industry, expert in complex numerical modelling

SCIENTISTS AND PROFESSIONALS FROM CANADA

1. *Dr. Patrick Moore, Ecologist, Chair CO2 Coalition, Co-Founder Greenpeace; WCD Ambassador*

2. *Reynald Du Berger, Retired Professor of Geophysics, Université du Québec a Chicoutimi, French Canada; WCD Ambassador*

3. Steven Ambler PhD, Full Professor University of Quebec, Dept. of Economics
4. John Andersen BSc, Honours, University of Alberta
5. Dr. Grant Armstrong, Leadership development and coaching
6. Russ Babcock, retired biochemist, lifetime experience in the mining and smelting

industry with emphasis on pollution abatement
7. Tim Ball †, Emeritus Professor Geography, University of Winnipeg and Advisor of the

International Science Coalition
8. Ron Barmby M.Eng in Engineering with major in Geoscience, Author of 'Sunlight in

Climate Change: A Heretic's Guide to Global Climate Hysteria
9. Timothy J. Barrett PhD, Geochemical Researcher, Ore Systems Consulting
10. Callum Beck PhD in Religious Studies, Sessional Professor in Religious and University

Studies
11. Mario Blais, Science and Mathematics Teacher
12. Kevin Burke MSc in Marine Biology, high school teacher, author/co-author of 2

technical reports with the Departement of Fisheries and Oceans and 2 scientific

articles published in the Journal of Shellfish Research
13. Robert Douglas Bebb, Professional Engineer (Mechanical), MBA
14. Rick Beingessner, BSc, BA and LLB University of Alberta, lifetime experience in the

Geo-Energy Industry, recently involved in researching Climate Change Matters 15. Jean Du Berger, Ingénieur Retraité, Bell
16. Alain Bonnier PhD, Physique, INRS-Centre de Recherche en Énergie, Montréal

17. Andrew Bonvicini, Professional Geophysicist, President of Friends of Science Society 18. Jacques Brassard, Minister of Re creation (1984), Minister of Environment (1994),

Minister of Transport and Intergovernmental Affairs of Canada (1996), Minister of

Natural Resources (incl. Hydro-Québec) and House Leader
19. Chris Carr, BSc (Hons) Engineering Geology and Geotechnics, retired Geoscientist
20. Michel Chapdelaine MSc, Géologie, Montréal
21. Henry Clark, Thermal/Power Engineer
22. Ian Clark, Professor of Earth and Environmental Sciences, University of Ottawa
23. Edmond (Ted) Clarke MSc, Engineering, Member of Friends on Science Society
24. Paulo N. Correa, Biophysicist and Oncologist, Inventor, Author of numerous books and

research papers, Director of Research at Aurora Biophysics Research Institute 25. Hortense Côté, Ingénieur Géologue, Goldminds
26. Susan Crockford, Zoologist and Polar Bear Expert, Former Adjunct Professor

University of Victoria
27. Norman Curry, Technical College, Design Engineering-Mechanical Engineering,

President of National Zephyr Research
28. Ronald Davison, Professional Chemical Engineer
29. Dr. E. David Day BSc, PhD, Chemistry
30. A.E. (Ted) Dixon PhD, Emeritus Professor of Physics, University of Waterloo
31. Eric Ducharme MSc, Géologie, Abitibi
32. Michel Dumais, Ingénieur Civil Retraité, Université d'Ottawa
33. Dr. George Duncan PhD, retired Environmental Consultant from A&A Environmental

Consultants Inc.
34. Claude Duplessis BcSc, Géologie, Ingénieur Géologue, Goldminds
35. Craig A. Elliott MSc Mechanical Engineering, Design Consultant, President at

CAElliott Inc
36. Ashton Embry, Research Geologist, Embry Holdings
37. David Fermor, Anaesthesiologist, B.A., M.D., FRCPC
38. Jeffrey Foss †, Professor of Philosophy of Science, University of Victoria
39. Joseph Fournier PhD, Expert in Physical Chemistry
40. Paul M. Gagnon, Professional Engineer
41. Thomas P. Gallagher, Earth Scientists, life-long career in the study of paleoclimate,

geology and earth ocean systems, see https://www.youtube.com/watch?v=pj-Iu1i317E 42. J. Claude Gobeil BSc, Geology
43. Douglas Goodman, Life of time experience in the geoenergy industry
44. Kenneth B. Gregory, Professional Engineer, Director Friends of Science Society
45. Dr. Paul Hamblin, Retired Research Scientist Environment Canada, Advisor to the

Georgian Bay Association
46. Mark T. Hohm, Professional Engineer registered with the Association of Professional

Engineers and Geoscientists of Alberta (APEGA)
47. R.G. Holtby, profesional agrologist
48. Patrick Hunt, former member of the Royal Canadian Navy, former member of the

Legislative Assembly of Nova Scotia, retired entrepreneur in the high-tech field (35

Years)
49. Rick Ironside, Director Fortress ESG, provides specialized expertise to help clients

map out their journey to attempt to achieve the goal of net zero by 2050
50. Eric Jelinski M. Eng. P. Eng., Alumni and Contract Lecturer, University of Toronto,

Department of Chemical Engineering and Applied Chemistry, CHE568 Lecturer,

Nuclear Plant Engineering
51. Paul A. Johnston, Associate Professor, Paleontology, Paleoecology, Department of

Earth and Environmental Sciences, Mount Royal University, Calgary, Alberta
52. Richard T. Jones, experimental physicist, researched in the field of fission energy
53. E. Craig Jowett, Geologist and Environmental Researcher PhD University of Toronto 54. Andre Julien, MSc Mechanical Engineering, Thermodynamics Expert, over 40 patents

published
55. Klaus L.E. Kaiser, Retired Research Scientist, National Water Research Institute,

Author of Numerous Press Articles
56. Bogdan Kasprzak, Professional Geoscientist, life time experience in data modelling,

data analysing and data interpretation
57. Madhav Khandekar, Expert Reviewer IPCC 2007 AR4 Report 58. David Koop BSc, Analytical Chemist

59. Kees van Kooten, Professor of Economics and Canada Research Chair in Environmental Studies and Climate, University of Victoria

60. Emil Koteles PhD in solid state physics, Max Planck Institute for Solid State Research in Stuttgart, GTE Labs in Waltham (Massachusetts), National Research Council of Canada in Ottawa (Ontario), visiting professor at Zhejiang University in Hangzhou, retired

61. Jean Laberge, Professeur Retraité de Philosophie, CEGEP du Vieux Montréal
62. Sherri Lange, CEO North American Platform Against Wind Power, Great Lakes Wind

Truth
63. M.J. Lavigne MSc, Professional Geologist
64. Douglas Leahey PhD, Meteorology, past President of Friends of Science
65. Professor Denis Leahy, PhD in Astrophysics, Full Professor in the Department of

Physics and Astronomy, University of Calgary
66. Robert Ledoux PhD, Professeur Retraité en Géologie, Université Laval
67. Dick Leppky, Retired businessman and Independent Truth Seeker
68. Richard Lewanski BsC (Hons) in Geophysics from the university of Manitoba, lifetime

experience as an exploration geophysicist, founder and CEO of several exploration

and production companies in the oil industry, as well as several private companies 69. H. Douglas Lightfoot, Research Engineer in the Chemical Industry, Co-Founder of the

Lightfoot Institute, papers on Alternative Energy and Atmospheric CO2
70. Gerald Machnee, Retired Meteorologist, Environment Canada
71. Allan M.R. MacRae, Retired Engineer
72. Paul MacRae, Independent Climate Researcher
73. J. David Mason, Applied Geologist, B.A.Sc, Applied Geology, M.Eng, Mining 74. Stuart McDonald, Retired Canadian Insurance Broker
75. Dwight McIntosh, degree in physics and geology at the University of Alberta,

lifetime of experience in the geo-energy industry, advisor on GHG quantification and

regulation
76. Norman Miller, Former P.Eng, now Retired
77. Ron Mills, Geologist/geochemist Emeritus NS Geological Survey
78. Randall S. Morley, veterinary epidemiologist, retired
79. Dr. Thomas F. Moslow PhD, P. Geol., President Moslow Geoscience Consulting Ltd.,

Adjunct Professor Department of Geoscience, University of Calgary
80. Roland Moutal, Teacher Physics and Chemistry at Vancouver Community College 81. Prof. Frank Mucciardi, retired Professor in the Department of Mining and Materials

Engineering at McGill University in Montreal, my research was focused primarily on

energy, heat transfer, fluid mechanics and modeling
82. Christian Olivier, former Postdoc @ UC Berkeley
83. Robert Orr, Historical Linguist
84. Scott Patterson, Professional Geologist
85. Andy Pattullo, Associate Professor of Medicine at the University of Calgary
86. Prof. David A. Penny PhD, Former Associate Professor, Dept. of Computer Science,

University of Toronto, veteran Software Industry Executive
87. Jozinus Ploeg, retired Vice-President, Engineering and Technology, National Research

Council, Field of expertise Energy transfer from atmosphere to surface of ocean, wave

mechanics
88. Joe Postma, Research Analyst, Physics & Astronomy, University of Calgary 89. Brian R. Pratt, Professor of Geological Sciences, University of Saskatchewan 90. Michael Priaro, BSc Chem.Eng, P.Eng, Member of Association of Professional

Engineers and Geoscientists of Alberta
91. Gerald Ratzer, Professor Emeritus, Computer Science McGill University, Montreal 92. John Angus Raw, aerospace engineer, specialised in aerodynamics, life time career in

the international aerospace industry
93. Dr. Michael Raw PhD in Mechanical Engineering, specialization in computer modelling

of fluid flow and heat transfer, current field of work in technology management
94. Robert James Reid, BSF degree, Registered Professional Forester, lifetime experience

in the forestry industry
95. Norman Reilly, Professor Emeritus of Mathematics, Simon Fraser University, British

Columbia
96. Gérald Riverin PhD, Géologie, Géologue Retraité
97. John Robson, Historian, Journalist, Documentary Filmmaker 98. Peter Salonius, Retired Research Scientist, Natural Resources

99. Marcelo C. Santos, Professor of Geodesy, University of New Brunswick
100. Paul R. Schmidt BSc, Professional Engineer Ontario, Research Scientist, Author/

Lecturer 'Review & Analysis of Climate Change', Member Friends of Science
101. Ian de W. Semple, Retired Exploration Geologist and Mining Investment Analyst of

McGill University
102. Afshin Shahzamani, Retired professional (Medical Science Liaison) pharmaceutical

industry
103. Élie Shama, Ingénieur Retraité en Électromécanique, Président d'Éconoden, Montréal 104. Wayne Shepheard MSc Geology, Retired oil and gas explorer
105. H.F. (Gus) Shurvell, Emeritus Professor of Chemistry, Queen's University
106. Brian Slack, Distinguished Professor Emeritus, Concordia University Montreal,

Department of Geography, Planning and Environment
107. Rodolfo (Rudy) Spatzner, graduated from Environmental/Civil Engineering

Technology, Humber College, Ontario, lifetime experience in wireless networks across

North America
108. Michelle Stirling, Writer/Researcher with focus on 'consensus' social proofs, Top 10%

downloaded author on SSRN, Communications Manager, Friends of Science Society 109. Mary Taitt PhD Zoology, MSc Ecology, retired
110. Graydon Tranquilla, BScEE, Electrical Power, Senior Electrical Engineer (retired), now

an energy advisory consultant
111. Marc Vallée PhD, Geophysicien
112. Petr Vaníček Dr. Sc, Professor Emeritus of Geodesy, University of New Brunswick 113. Duncan Veasey, psychiatrist with a particular interest in mass hysteria,

authoritarianism and social compliance
114. Prof. Dr. Ir. Frank C.J.M. van Veggel, Full Professor at the University of Victoria, M.Eng

and PhD in Chemical Technology, University of Twente, The Netherlands, Since 2015

Fellow of the Royal Society of Canada
115. Jean-Joel Vonarburg PhD, Professeur Ingénieur, Université du Québec à Chicoutimi 116. Dr. Ronald Voss PhD Chemistry, lifetime career in the environment department of a

research consortium
117. Robert Wager, BSc and MSc, Microbiological Sciences and Immunology, Biochemistry

and Molecular Biology, Retired
118. Dr. Helen Warn PhD in Fluid Dynamics from McGill University
119. Dr. Thorpe W. Watson, material science, lifetime career in the mining industry with

focus on intellectual property protection
120. Larry Weiers, energy engineer, retired, author of "Sustainability of the Modern Human

Economy"
121. William van Wijngaarden, Professor of Physics, York University 122. Ken Wilson, Professional Engineer (retired)

SCIENTISTS AND PROFESSIONALS FROM CHILE

1. *Douglas Pollock, Civil Industrial Engineer, University of Chile; WCD Ambassador* 2. Rafael Muñoz Canessa, Part time Academic University of Talca, Economics and

strategic management
3. Juan Luis Edwards Velasco, Civil engineer in hydraulics, Universidad Católica de Chile,

Master in hydraulic engineering, Universidad de Santander, Spain 4. Carlos Varea, Energy Engineer

SCIENTISTS AND PROFESSIONALS FROM CHINA / HONG KONG

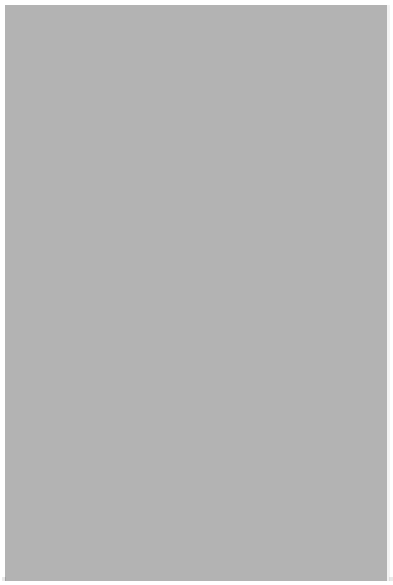
1. Dr. Robert Hanson, PhD, BA (Hons), MA, LL.M, PGCE, CPE, Barrister
2. Wyss Yim, Retired Professor, Department of Earth Sciences, The University of Hong

Kong, Deputy Chairman Climate Change Science Implementation Team, UNESCO

International year for Planet Earth 2007-2009, Expert Reviewer IPCC AR2 3. NG Young, Principal Geoscientist, Danxiashan Global Geopark of China

SCIENTISTS AND PROFESSIONALS FROM COSTA RICA

1. Eugenio G. Araya, Theoretical Physicist, Researcher, former scientist at University of Costa Rica



SCIENTISTS AND PROFESSIONALS FROM REPUBLIC OF CROATIA

1. *Dušan Bižić MSc, Meteorologist; WCD Ambassador*
2. Zorislav Gerber MSc, Meteorologist

SCIENTISTS AND PROFESSIONALS FROM CYPRUS

1. Darko Krstic, editor of https://philosophyofgoodnews.com/

SCIENTISTS AND PROFESSIONALS FROM CZECH REPUBLIC

1. Pavel Dudr, Ing, Independent publicist and climatologist / Pravy prostor, EP Shark/
2. Marek Eiderna, Agricultural Engineer and graduated in General Biology
3. Tomas Furst PhD, teacher of mathematics at Palacky University in Olomouc and a

proponent of correct, i.e. Bayesian inference
4. Vaclav Hubiner, Retired Ambassador, Anthropologist, Climate Policy Commentator for

www.forum24.cz

5. Pavel Kalenda PhD, CSc., Coal Expert
6. Václav Klaus, Former President of the Czech Republic, Professor of Economics,

Founder of the Václav Klaus Institute
7. Lubos Motl PhD, former Harvard faculty, high energy theoretical physicist, co-author

of the 2009 NIPCC report
8. Ivan Spicka, Professor of Internal Medicine at Charles University with speciality in

Hemato-Oncology, Prague
9. Dalibor Štys, professor of Applied physics, Faculty of Fisheries and Protection of

Waters, University of South Bohemia in České Budějovice
10. Gary M. Vasey PhD, Geology, Managing Partner and Analyst in Commodity Technology

Advisory llc
11. Ing. Miroslav Žáček PhD, aplied geochemistry, been working on the climate for more

than 10 years as a geochemist

SCIENTISTS AND PROFESSIONALS FROM DENMARK

1. *Jens Morten Hansen PhD, Geology, Professor at Copenhagen University, Former Vice Managing Director for the Geological Survey of Denmark and Greenland, Former Director General for the Danish National Research Agency and National Research Councils, Former President of the Nordic Research Council under Nordic Council; WCD Ambassador*

2. Bjarne Andresen, Professor of Physics, Niels Bohr Institute, University of Copenhagen
3. Dr. Hans Götzsche, Emeritus Associate Professor, Linguistics and Philosophy

of Science, President Nordic Associaton of Linguists (NAL), Director, Center for

Linguistics, Aalborg University
4. Frank Hansen, Emeritus Professor, Department of Mathematics, University of

Copenhagen
5. Niels Harrit PhD, Emeritus Associate Professor of Chemistry, Dept. Chemistry,

University of Copenhagen

6. Sören Kjärsgaard, Professional Chemical Engineer
7. Johannes Krüger, Emeritus Professor, Dr. Scient, Department of Geosciences and

Natural Resource Management, University of Copenhagen

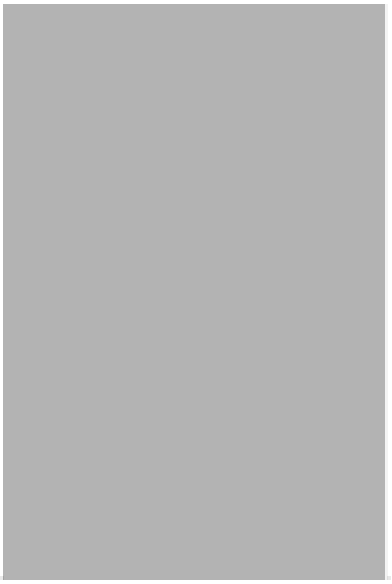
8. Knud Larsen PhD, Natural Sciences
9. Peter Locht, Senior Lecturer, Business Academy Aarhus (statistics)
10. Peter Kjær Poulsen, Metering Engineer
11. Steen Rasmussen Bsc in Electrical Engineering from Denmark Technical University,

lifetime career at IBM Denmark Aps
12. Niels Schrøder, Geophysist/Geologist, Associate Professor Institute of Nature and

Environment, Roskilde University
13. Pavel Svennerberg, Master of engineering, Technology of oil and gas processing

SCIENTISTS AND PROFESSIONALS FROM ESTONIA

1. Andres Saukas, Diploma Electrical Engineer, Estonian Society of Moritz Hermann Jacobi



SCIENTISTS AND PROFESSIONALS FROM ECUADOR

1. Fernando Villon MSc, Industrial Engineer, Lifetime Experience in the Geo-Energy Industry

SCIENTISTS AND PROFESSIONALS FROM FINLAND

1. Simo Mykkanen, Ba Econ, small business owner, retired
2. Dr. Antero Ollila, Emeritus Adj. Ass. Professor Aalto University, expert in atmospheric

modeling
3. Simo Ruoho, President Ilmastofoorumi ry Finland, Signature of association https://

ilmastofoorumi.fi including its scientists and professional members
4. Boris Winterhalter, Retired Marine Geology, Geological Survey of Finland

SCIENTISTS AND PROFESSIONALS FROM FRANCE

1. *Benoît Rittaud, Assistant Professor of Mathematics at University of Paris-Nord, President of the French Association des climato-réalistes; WCD Ambassador*

2. Jean-Charles Abbé, Former Research Director at CNRS, Labs Director (Strasbourg, Nantes) in Radiochemistry, Expert at NATO and IAEA

3. Pascal Acot, Centre National de la Recherche Scientific, Paris
4. Bertrand Alliot, Environmentalist
5. Frédéric Antoine, graduated from Sciences Politiques in France
6. Charles Aubourg, Full Professor at the University of Pau, Geophysicist
7. Hervé Azoulay, Engineer (CNAM), Specialist of Networks and Systemics, CEO and

President of several Associations
8. Guy Barbey, Alumnus of Harvard Business School, Retired Investment Banker,

Founder and President of 'Climate et Vérité'

9. Jean-Pierre Bardinet, Ingénieur ENSEM, Publicist on Climate Issues
10. Yorik Baunay, Geographer (Master 2) specialized in the natural risk and crisis

management, CEO of Ubyrisk Consultants (firm specialized on natural hazard

mitigation)
11. Bernard Beauzamy, University Professor (Ret.), Chairman and CEO, Société de Calcul

Mathématique SA (Paris)

12. Serge Bellotto PhD, Geology
13. Guy Bensimon, Retired Associate Professor of Economics at Institute of Political

Studies of Grenoble (SciencesPo Grenoble)
14. Jean-Claude Bernier, Emeritus Professor (University of Strasbourg), Former Director

of the Institute of Chemistry of the CNRS
15. Pierre Beslu, Former Researcher and Head of Department in the French Nuclear

Energy Commission (CEA)
16. Michel Bouillet PhD, Human Geography, Emeritus Professor, Former Associate

Researcher at the MMSH (Aix-en-Provence)
17. Christian Buson PhD, Agronomy, Director of Research in a Company (impact studies in

Environmental Issues, Sewage Treatment)
18. Jean-Louis Butré, Head of Laboratory at Grenoble Nuclear Research Center, Chief

Executive Officer of the Pharmacie Centrale de France, President of Procatalyse, President of the Fédération Environnement Durable and the European Platform Against Windfarms, Knight of the National Order of Merit

19. Emmanuel Camhi MSc in Physics, life time experience in Complex Systems Modeling and Data Analysis in the Aerospace industry

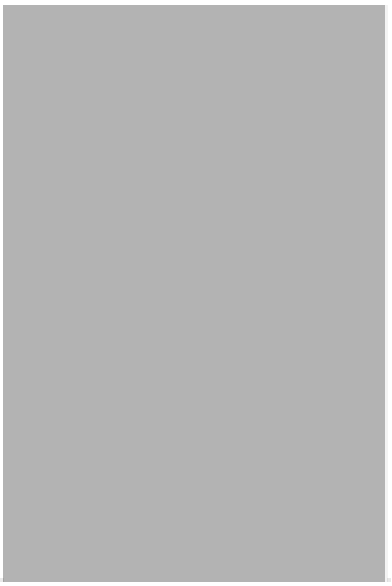
20. Bernard Capai, Retired Chemistry Engineer, Specialist of Industrial Processes avoiding the use of Carcinogenic Solvents

21. Patrick de Casanove, Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat
22. Philippe Catier, Medical Doctor
23. Vincent Chaplot PhD Soil Science, Senior Research Scientist
24. Bruno Chaumontet, Engineer ENSEA, specialized in Feedback Systems

25. Pascal Chondroyannis, Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)

26. Jean Michel Colin PhD, Retired Chemist Engineer, Expert for the French Academic Evaluation Agency (AERES)

27. Philippe Colomban, CNRS Research Emeritus Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage



28. Jacques Colombani, Former Research Director ORSTOM-IRD, numerous Studies in Hydrology and Climatology and Specialist in Fluid Mechanics, Member of the Board of ORSTOM for twenty years

29. Christian Coppe PhD, Organic & Analytical Chemistry
30. Philippe Costa, Energy Engineer at ENSEM Nancy, specialist in Industrial Process and

Energy Saving
31. Vincent Courtillot, Geophysicist, Member of the French Academy of Sciences, Former

Director of the Institute de Physique du Globe de Paris
32. Pierre Darriulat, Professor of Physics, Member of the French Academy of Sciences 33. Jean Davy, Engineer (ENSAM), Digital Modeling Software Developer
34. Dr. Stephen John Dearden, Retired Research Chemist, lifetime R&D experience in the

general chemical, pharmaceutical and photographic industries
35. Pierre Delarboulas, CEO of a Robotics Company, Former R&D Director at Partnering

Robotics, Silver Medal at the 2016 Lépine contest of the Ministry of Foreign Affairs

and International Development
36. Jean-Pierre Desmoulins, Retired Professor of Thermal and Energy Engineering at the

"Institut Universitaire de Technologie, Université-Grenobles-Alpes"
37. Gérard Douhet PhD, Nuclear Physics, Retired Engineer at CERN, Technical Manager on

Digital Transmission and Video Encoding
38. Hubert Dulieu, Emeritus Professor Applied Ecology, Formerly Senior Researcher in

the CNRS, President of the National Scientific Research Committee, Vegetal Biology

Section (XXVII)
39. Doctor Denis Dupuy, Urologist, climate realist
40. Bruno Durieux, Economist, Former Minister of Health and of Foreign Trade, Ancient

Administrator of the French National Institute of Statistics and Economic Studies

(INSEE)
41. Ralph Ellis, Bsc in Aviation, ATPL
42. Max Falque, International Consultant in Environmental Policy
43. Serge Ferry PhD, Retired Teacher-Researcher (MCF), University of Lyon
44. Patrick Fischer, Associate Professor in Applied Mathematics, University of Bordeaux 45. Michel Frenkiel, Engineer (Arts et Métiers), Former Researcher at NCAR in Boulder 46. Francis le Gaillard PhD, Natural Sciences and Pharmaceutical Sciences, Emeritus

Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse 47. François Gauchenot, Governance Specialist, Founder of Saint George Institute 48. Jean Gergelé, Engineer Graduate from the Ecole Centrale de Lyon, R&D Director,

Freelance Consultant, mainly in the Li-ion battery development
49. Christian Gérondeau, Former Advisor of several French Prime Ministers, Formerly

responsible for the Road Traffic Safety Policy for France and the European Union 50. Francois Gervais, Emeritus Professor of Physics and Material Sciences, University of

Tours
51. Philippe Giraudin, Ecole Polytechnique Paris, Geographic Sciences
52. Bernard Grandchamp, Agronomic Engineer and Environment & Plant Defense Expert,

Managing Director of Famoux Chateaux Viticoles in Bordeaux
53. Gilles Granereau, Former Meteorologist, currently Project Manager Environment and

Tourism in a Public Institution, Worked on Coastal Risks, Marine Erosion, Sand Dune

Fixation, Hydraulics, Forest Management, Botany
54. Maximilian Hasler, Associate Professor in Mathematics, University of French West

Indies
55. Charles Hazan, Retired Chemist (ENSCP) and Chemical Engineer (UMIST) Former

Technical Director Nosolor
56. Manfred Horst, MD, PhD, MBA, lifetime career in healthcare and pharmaceuticals
57. Yvon Jarny, Emeritus Professor in Thermal and Energy Sciences, Nantes University 58. Claude Jobin, Retired A&M Engineer specialized in Microwave Communication
59. Vladimir Klein, lifetime career in renewable energy projects, patent holder in aerobic

composting of organic waste
60. Alexandre Krivitzky, Psychoanalyst, Member of the International Psychoanalytical

Association
61. Roger Lainé, Retired Geological Engineer
62. Philippe de Larminat, Professor at École Centrale de Nantes, specialist of Business

Process Modeling
63. Jacques Laurentie, Aeronautical Engineer, and CEO of a software publishing company 64. René Laversanne, Researcher at the CNRS, 16 patents

65. Christian Liegeois PhD Physics, patent holder in photonics
66. Jean-Marie Longin, Engineer (Saint-Cyr), Chief of the Pole Operations of Security

Inventory Management
67. Guy Lucazeau, Emeritus Professor (Institut Polytechnique de Grenobel) in Material

Sciences and Spectroscopy
68. Philippe Malburet, Emeritus Associated Professor of Mathematics, Founder of the

Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-Provence
69. Christian Marchal, Astronomer and Mathematician, Former Research Director at the

French National Office for Aerospace Studies and Research
70. Dr. Yves G. Maria-Sube PhD in Geosciences Montpellier University, lifetime career in

the geoenergy industry
71. Paolo Martinengo, Applied Physicist, Senior Staff Member in the Experimental Physics

Department, Detector Technologies Group, CERN
72. Patrick Mellett, Architect and CEO
73. Marc le Menn PhD, Head of Metrology-Chemistry Oceanography Lab, Brest
74. Henri Mertz, Ingénieur Civil de l'école de la Métallurgie et des Mines de Nancy, Chef

d'Entreprises
75. Serge Monier, former manager of various multinational companies, at present Co-

founder and Treasurer of 'Climat et Vérité'
76. Jean-Laurent Monnier, Emeritus Research Director, CNRS-Université de Rennes,

Research Worker at the CNRS from 1973 to 2013, speciality in Pleistocene Geology in

Western Europe
77. Jacques-Marie Moranne, Retired Engineer (Ecole Centrale de Lille), Specialist in Air

and Water Purification, Chemical and Nuclear Engineering
78. Serge Morin, Emeritus Professor Geography at Université Michel de Montaigne,

Bordeaux, Honorary Mayer of Branne
79. Cédric Moro, Geographer on Natural Hazards Management, Co-Founder of Visov, a

NGO in Civil Defense
80. Philippe Morvan, Engineer ENSTA and Génie Maritime, specialist in Software

Development
81. Charles Naville, R&D Exploration Geophysicist, IFP Energies Nouvelles
82. Michel le Normand, Emeritus Professor of Botany and Plant Pathology and Chairman

of Plant Production Department, National Superior School of Agronomy, Rennes 83. Ludovic Penin, former Senior Executive - Chief Information Officer (IT) and former

Entrepreneur/Investor, Co-founder and Vice-president of 'Climat et Vérité', member of

"Association des Climato-réalistes'
84. Dr Patrice Poyet, Graduated at Ecole des Mines de Paris as a geochemist and defended

a D.Sc. (1986) at Nice University / INRIA, author of 'The Rational Climate e-Book' 85. Rémy Prud'homme, Emeritus Professor in Economics at University of Paris-Est,

Former Deputy-Director, Environment Directorate, OECD
86. Jean Marie Ravier, Engineer of ECOLE CENTRALE DE PARIS, and diplomed SCIENCES

POLITIQUES PARIS, recently retired MD of small industrial company
87. Pierre Richard, Engineer ESPCI Paris, Former Research Geochemist at Institut de

Physique du Globe de Paris (IPGP)
88. Pierre Ripoche, Engineer INSA in Chemistry, Retired Project Manager in R&D, Expert

in High Temperature Plasma for Optical Fiber Process
89. Isabelle Rivals, Associate Professor in Statistics at ESPCI Paris
90. Betrand Rouffiange, Doctor of Medicine, specialized in Radiology
91. Jean Rouquerol, Emeritus Research Director at CNRS Marseille, Expert in Gas

Adsorption and Calorimetry
92. Georges de Sablet, Retired Associate Professor at University of Paris Descartes,

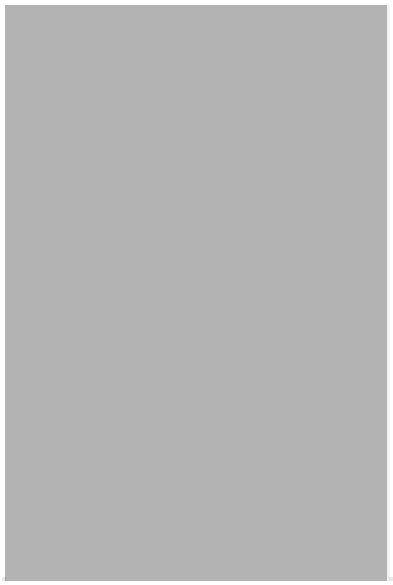
Formerly in charge of Operating Systems and Networks at IUT Paris
93. François Simonet PhD, Biology, Former Director for Planning and Foresight in a State

Agency for Water and Aquatic Ecosystems Management
94. Luc C. Tartar, mathematician, corresponding member of Académie des Sciences in

Paris (since 1987), University Professor of Mathematics emeritus at CMU (Carnegie

Mellon University, Pittsburgh, PA)
95. Marcel Terrier, Ex Engineers in Industry, Former Teacher at the Douai School of Mines 96. Michel Thizon, Chemical engineer, ACR (Association des Climato-Réalistes, France)

member, former researcher at the Ecole Polytechnique, consultant, retired 97. David Uzal PhD philosophy of technics and PhD of practical philosophy



98. Etienne Vernaz, Former Director of Research of CEA (Commissariat à l'Énergie Atomique) in France, Professor at INSTN (Institut National des Sciences et Techniques Nucléaires)

99. Camille Veyres, Retired Engineer at École des Mines, specialist in Telecommunications and Broadband Networks

100. Brigitte van Vliet-Lanoë, Geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), Stratigraphy and Paleoenvironments, Quaternary and Holocene

101. Théa Vogt, Retired CNRS Searcher, Géomorphology, Quaternary Palaeoenvironments, Soil and Desertification Remote Sensing

102. Henry Voron, Retired Civil Chief Engineer, specialized in Water Management

SCIENTISTS AND PROFESSIONALS FROM GERMANY

1. *Fritz Vahrenholt, Professor (i.R.) am Institut für Technische und Makromolekulare Chemie der Universität Hamburg; WCD Ambassador*

2. Detlef Ahlborn PhD, Expert on German Energy Transition (Energiewende)
3. Hans-Jürgen Bandelt, Emeritus Professor of Mathematics, University of Hamburg 4. Dietrich Bannert, Professor Honoris Causa, University of Marburg
5. Graham George Baumber, former Agronomist & Irrigation Crop Specialist, Business

Man & Investor
6. Lars Birlenbach, Dr. in Chemistry, University of Siegen
7. Michael Bockisch, Emeritus Professor Chemistry at the Technical University of Berlin 8. Klaus-Dieter Böhme, Dipl. Physicist, professional experience in X-ray spectroscopy
9. Thomas Brey, PhD in Natural Sciences (Dr. rer. nat), Marine Ecological Researcher 10. Stephan Bujnoch, Wirtschaftsingenieur (i.e. a combination of Economics and

Engineering), Retired Manager with the Automotive Industry
11. Eike-Mattias Bultmann, Geoscientist
12. Eberhard Burkel, Prof. (i.R.) Dr.rer.nat , Physics of New Materials, University of Rostock 13. Dr. Arthur Chudy, Agricultural Chemist OT

Warsaw
14. Günter Dedié, Physicist
15. Dr. Ing. Rolf Diederichs, Studie Eisenhüttenkunde in Clausthal-Zellerfeld, climate

realist
16. Prof. Dr. Klaus D. Döhler, Professor of Pharma sciences, University of Hannover
17. Wolf Doleys, Retired teacher (high school, college) and writer (essay, poetry, novel) 18. Joerg Dornemann Msc in Geology, lifetime career in the GeoEnergy Industry
19. Jörg Eichner, Specialist in situational awareness in crises and risk management
20. Friedrich-Karl Ewert, Emeritus Professor Geology, University of Paderborn
21. Ludwig E. Feinendegen, Emeritus Professor Medicine
22. Dr. Dieter Freundlieb, Retired Senior Lecturer Griffith University, School of

Humanities, Brisbane, Australia
23. Gerhard Gerlich, Emeritus Professor of Mathematical Physics, TU Braunschweig
24. Axel Robert Göhring, Doctor of Natural Sciences, EIKE e.V.
25. Dr. Klaus-Jürgen Goldmann, worldwide experienced petroleum geologist
26. Christian Habermann, Dr. in Economics, Investment Manager
27. Eberhard Happe, Eisenbahningenieur
28. Hermann Harde, Emeritus Professor of Experimental Physics and Materials Science,

Helmut Schmidt-University, Hamburg
29. Prof. Dr. Bernd Hartke, Professor in Theoretical Chemistry, Expert Knowledge in

Computer Modelling, University of Kiel
30. Manfred Hauptreif, Natural Scientist
31. Dennis J. Hendricks, Graduated Engineer of Environmental Technologies, Technischen

Hochschule Ostwestfalen-Lippe, University of Applied Sciences and Arts
32. Dietmar Hildebrand PhD Biophysics and Nuclear Physics, patent holder in fuzzy logic

based suveillance, IT expert and development manager
33. Dr. Andreas Hoppe, Systems biologist, Institute for Bee Research
34. Prof. Axel Janke PhD, professor of evolutionary genomics
35. André Karutz, Chemist, Dr. rer. nat. expert in environmental matters
36. Professor Dr. Gerhard Kehrer, Retired Physician, Internist and Physiologist 37. Dr. Udo Kienle, Agricultural Scientist at University of Hohenheim
38. Werner Kirstein, Emeritus Professor of Climatology, University of Leipzig

39. Bernhard Kleinhenz, Collage teacher of Biologie, Chemistry and Physics
40. Gunther Klessinger, Physicist, University at Regensburg Germany and Boulder

Colorado
41. Stefan Kröpelin, Dr. in Geosciences, Free University of Berlin and University of

Cologne (Retired), specialized in Climate Change of the Sahara
42. Dr. rer. nat Gunter Kümel, lifetime career in virus research in the natural siences 43. Max Kupillas, Dipl.-Ing. Masch.-Bau, retired Prod.Ltr.
44. Ulrich Kutschera, Professor of Plant Physiology & Evolutionary Biology at the

University of Kassel and Visiting Scientist in Stanford USA
45. Wolfgang Laub, Physics (J.W.Goethe University, 1977-1986), Medicine (Physiology-

Biomechanics, Max-Planck Institute, 1980-1986), patent holder in different areas
46. Michael Limburg, Vice-President EIKE (Europäisches Institute für Klima und Energie) 47. Martin Lindner PhD in Chemistry, Dipl. in Chemistry, President of the Bürger für

Technik
48. Prof. Dr. Kai van de Loo, Dr. rer. oec. Honorarprofessor der THGA und Senior

Consultant im Forschungszentrum Nachbergbau
49. Dr. Stephan Lorenzen PhD Theoretical Biology, Bioinformatician, worked with

nonlinear modelling
50. Professor Dr. Knut Löschke, studied crystallography, chemistry, physics, mathematics

and computer science. He is an honorary professor at the University of Technology, Economics and Culture in Leipzig. As part of his work at the university, he deals with the energy industry and climate change

51. Horst-Joachim Lüdecke, Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken

52. Wolfgang Merbach, Professor Dr. Agrar. Habil. at Institut für Agrar Ernährungswissenschaften

53. Lothar W. Meyer, Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'

54. Jens Möller, Graduate Economist, Climate Realist
55. Wolfgang Monninger PhD, lifetime career in Petroleum Geology (Exploration,

Petrophysics)
56. Werner Mormann, Emeritus Professor of Macromolecular Chemistry, Universität

Siegen
57. Dipl. Phys. Raimund Müller, education in physics and thermodynamics, climate realist 58. Holger Neulen, Retired Mechanical Engineer
59. Prof. Dr.rer.nat Dr.med Peter Nielsen, retired Biochemist and Physician from the

Universital Hospital Hamburg-Eppendorf, medical faculty of the University of

Hamburg
60. Rainer Olzem, Diplom-Geologe, Aachen
61. Hans Penner PhD, Dipl.-Chem. Dr. rer. nat., Linkenheim-Hochstetten
62. Dr. Dr. Wätzold Plaum, Physicist and YouTuber
63. Michael Principato MSc in Electrical Engineering, specialised in Control Engineering

and Modeling
64. Dieter Ramcke, retired geophysicist
65. Siegfried Reiprich, Dipl.-Ing, Geoscientist and Oceanography
66. Andreas Salzman, Dr. rer. nat., Diplom Chemiker

67. Dr. Hendrik Schlesing, Environmental Expert and Consultant
68. Dr. Jens-Christoph Schneider PhD in Isotope Chemistry, life time career in

palaeoclimate and atmospheric geochemistry
69. Dr. rer. nat. Michael Schnell, Retired chemist
70. Prof. Dr. Dr. Karl-Heinz Schulz, Germany, University Hospital Hamburg-Eppendorf,

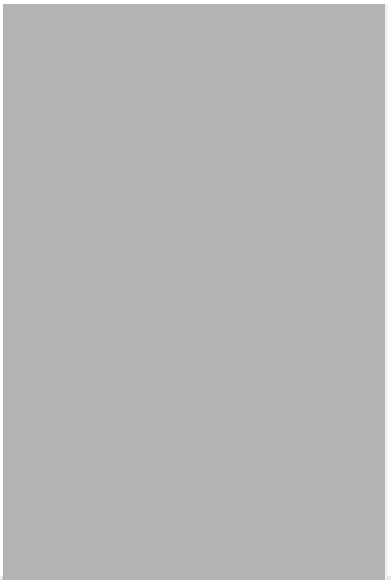
interdisciplinary research in Medicine, Psychology and exercise science (https://

www.researchgate.net/profile/Karl-Heinz-Schulz-2)
71. Dipl. Psych. Ulrike Schwan, Professional Psychotherapist, Psychotherapist look at the

IPCC Organization
72. W.H. Eugen Schwartz, Emeritus Professor of Theoretical Chemistry, Universitaet

Siegen
73. Dr.-Ing. Christian Singewald, Dipl.-Geologist, PhD Mining Engineering
74. Attila Sonal, Dipl.-Ing. der Elektrotechnik, Retired am Technischen Universität

Kaiserslautern, Stadtratsmitglied Kaiserslautern, Preisträger Ansaldo Ricerche Price 75. Dr. Fritz Sontheimer, Retired Physicist, PhD in Condensed Matter Physics



76. Dr. Wolfgang Strehlau, Phys. Chemist, Technology Fellow in Johnson Matthey Plc, UK 77. Lothar Strenge, strategy and concept developer, full time writing on a large SF project 78. Manuel Tacanho, founder and president of the Afrindependent Institute
79. Matthias Thiermann, Parliamentary adviser in the Bavarian Parliament

80. Dr. Holger Thuss, President EIKE Institute
81. Jost Trier PhD, Retired Experimental Physicist at the Federal Institute in

Braunschweig, Dept. of Atomic Physics
82. Ralf D. Tscheuschner PhD in Physics
83. Helmut Waniczek Dr. Dipl. Ing., Scientist, working 40 years in chemical industry
84. Thomas Weimer, Process Engineer (Dr.-Ing.), worked on CO2 capture from atmosphere

and during hydrogen generation
85. Carl-Otto Weiss, Emeritus Professor in Non-linear Physics, Advisor to the European

Institute for Climate and Energy, Former President of the German Meteorological

Institute, Braunschweig
86. Peter Willingmann, Dr. rer.nat

SCIENTISTS AND PROFESSIONALS FROM GREECE

1. *Stavros Alexandris, Associate Professor Agricultural University of Athens, Dept. of Natural Resources and Agricultural Engineering, Sector of Water Resources ; WCD Ambassador*

2. Costas Fasseas, Emeritus Professor of Plant Anatomy & Electron Microscopy, Department of Crop Science, Agricultural University of Athens

3. Anthony Foscolos, Emeritus Professor of Mineral Resources at the Technical University of Crete, Energy Consultant for the United Nations Development Program (UNDP)

4. r. Vassilios C. Kelessidis, former Professor at Khalifa University, Texas A&M at Qatar and Technical University of Crete Greece, Lifetime of Experience in Petroleum Engineering

5. Christos J. Kolovos PhD, Mining & Metallurgy Engineer, Former Director of Mine Planning & Contractor Works Dept., Public Power Corporation of Greece

6. Emmanouil Kopanakis, Mechanical Engineer, Teacher at the Environmental Education Center of Karpenisi

7. Demetris Koutsoyiannis, Professor of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens

8. Aristotelis Liakatas, Emeritus Professor of the Agricultural University of Athens on Agrometeorology, Member of the Greek Agricultural Academy

9. Nikos Mamassis, Associate Professor of Engineering Hydrology and Hydrometeorology at the National Technical University of Athens

10. Charilaos Markopoulos MSc in Waste Management
11. Spyridon Nikiforos, Economist, MBA
12. Sonia Perez † PhD, Biology/Immunology, Scientific Coordinator Cancer Immunology

and Immunotherapy Center Saint Savas Cancer Hospital, Athens
13. G.-Fivos Sargentis, Dr Engineer-Sculptor, Dept. of Water Resources; School of Civil

Engineering, National Technical University of Athens

SCIENTISTS AND PROFESSIONALS FROM GUATEMALA

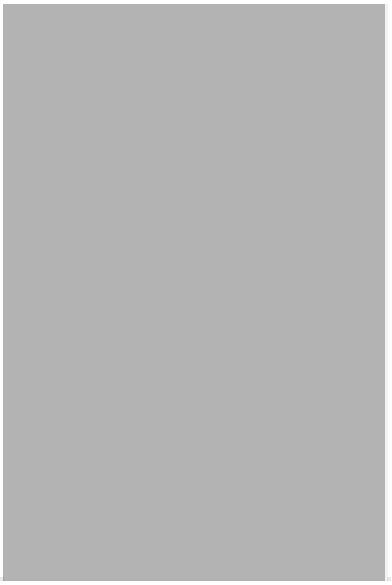
1. Christopher Lingle PhD Economics Universidad Francisco Marroquín

SCIENTISTS AND PROFESSIONALS FROM HUNGARY

1. *Laszlo Szarka, Geophysicist, O.M.; WCD Ambassador*
2. Dr. Dezso Csejtei, retired professor of philosophy at the University of Szeged
3. Dr. Endre Fuggerth, Chemist, lifelong experience in gas-chromatography
4. Istvàn Héjjas PhD, Retired R&D Electrical Engineering
5. József Király, Chemical Engineer and one of the Authors of the Hungarian site www.

klimarealista.hu
6. Dr. József Majer, Senior Professor of Ecology and Environment Protection at University

of Pecs
7. Gábor Simon MSc Chemical Engineering, University teacher General, Anorganic,



8. Dr. Gábor Szász, Professor Emeritus, College Professor Dennis Gabor College Department of Economics and Engineering

SCIENTISTS AND PROFESSIONALS FROM INDIA

1. Dr. M.M. Ali, MSc in Meteorology and Oceanography with a PhD in Meteorology, Center for Ocean-Atmospheric Prediction Studies, Florida State University, USA

2. Dornadula Chandrasekharam, retired professor from Indian Institute of Technology Bombay, currently working in Izmir Institute of Technology as TUBITAK Professor working on geothermal energy systems

3. Vijay Jayaraj, Research Associate at CO2 Coalition, Contributor to Cornwall Alliance
4. Prem raj Pushpakaran, PhD in BioTechnology, Professor
5. Sanjeev Sabhlok, Economist with focus on Climate and Energy Policy

SCIENTISTS AND PROFESSIONALS FROM INDONESIA

1. Purwono Wahyudi, Entrepreneur and informed climate realist

SCIENTISTS AND PROFESSIONALS FROM IRELAND

1. *Jim O'Brien, Founder of the Irish Climate Science Forum, Expert Reviewer of IPCC AR6; WCD Ambassador*

2. Tom Baldwin, Electrical Engineer, specialist in Power System Security
3. Dr Timothy Dunne, DPsych, MSc, BA, ASFBPS, AFPSI, Consultant Clinical Psychologist,

full member of the Psychological Society of Ireland and of the British Psychological

Society
4. Gerald Fitzgibbon, Physical Chemist specializing in Electrochemistry and

Thermodynamics

5. David Horgan, MA (Cambridge), MBA (Harvard), Resource Company Director
6. Seamus Hughes, BAgricSc, Specialist in Genetics
7. Mark Gerard Keenan, Former Science Advisor, Department of Energy and Climate

Change, U.K., Former Environmental Affairs Officer, United Nations Environment

Division, Geneva, Switzerland

8. Ultan Murphy, BSc (Hons) Chemistry, Industry Science Professional
9. Owen O'Brien, Business Founder and Entrepreneur, MBA, DBA
10. Patrick L O'Brien, MSc, MPhil, Senior International Environmental Consultant
11. Donal O'Callaghan, electrical engineer, retired food industry research scientist
12. J. Phillip O'Kane, Emeritus Professor, School of Engineering, University College Cork
13. Peter O'Neill, Retired, School of Engineering, University College Dublin, Expert

Reviewer of IPCC AR6

14. Fintan Ryan, Retired Senior Airline Captain, Fellow Royal Aeronautical Society
15. Christian Schaffalitzky, FIMMM, Founder Institute of Geologists of Ireland, EurGeol
16. Norman Stewart PhD, former astrophysicist and meteorologist
17. Brian N. Sweeney, Founding Chairman of Science Foundation Ireland
18. Pat Swords, BE, CEng, FIChemE, PPSE, CEnv, MIEA, Challenger of Over-Reach in

Environmental Legislation

19. Sean Tangney, Business Entrepreneur, Former Technical Director, CRH plc
20. David Thompson, BAgricSc, MA, Animal Nutritionist
21. Edward Walsh, Former Chairman, Irish Council for Science, Technology and

Innovation, Former Director Energy Research Group, Virginia Tech, USA

SCIENTISTS AND PROFESSIONALS FROM ISRAEL

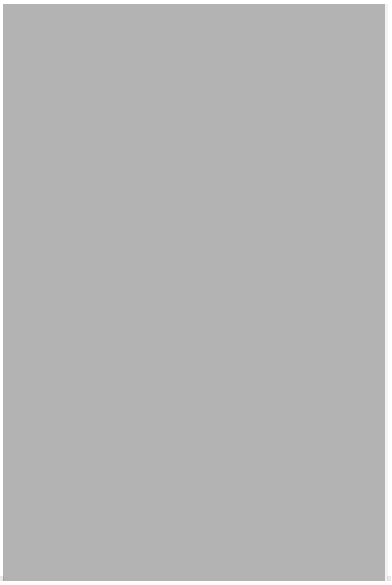
1. Dr. Gaby Avital PhD in Aerospace, member of the Israeli forum for rational environmentalism

2. Uriel Cohen, MSc in Computer Science from Technion - Israel Institute of Technology
3. Prof. Yonatan Dubi PhD, Professor of Theoretical Physics and Chemistry at Ben-Gurion

University, cofounder of the Israeli Forum For Rational Environmentalism
4. Yakov Itenberg, BSc of Meteorology and Climatology, MSc of Physics Education, 25

years reserve meteorological officer of Israeli Defense Forces Home Front Command 5. Micha Klein PhD, Emeritus Professor, The Department of Geography and

Environmental Studies



6. Nir J. Shaviv PhD in Physics at the Israel Institute of Technology, Professor of Physics at the Racah Institute at the The Hebrew University of Jerusalem

SCIENTISTS AND PROFESSIONALS FROM ITALY

1. *Alberto Prestininzi, Professore di Rischi Geologici, Honorary Cherman NHAZCA Università of Rome Sapienza, già Scientific Editor in Chief della Rivista Internazionale IJEGE e Direttore del Centro di Ricerca, Previsione, Prevenzione e Controllo dei Rischi Geologici (CERI); WCD Ambassador*

2. Pietro Agostini, Ingegnere, Associazione Scienziati e Tecnologi per la Ricerca Italiana
3. Aldo Aluigi, Nuclear Engineer, Consultant in Power Plants, Cogeneration end District

Heating

4. Piero Baldecchi, Lettore
5. Achille Balduzzi, Geologo, AgipEni
6. Antonio Ballarin, Fisico, “Chief Artificial Intelligence Officer” di una pubblica

amministrazione

7. Cesare Barbieri, Professore Emerito di Astronomia, Università di Padova
8. Donato Barone, Ingegnere
9. Sergio Bartalucci, Fisico, Presidente Associazione Scienziati e Tecnologi per la Ricerca

Italiana

10. Giuseppe Basini, Astrofisico, Deputato, già dirigente di Ricerca dell’INFN
11. Franco Battaglia, Professore di Chimica Fisica, Università di Modena, Movimento

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12. Marco Benini, Ingegnere Idraulico, Libero Professionista
13. Eliseo Bertolasi, Dottore di Ricerca in Antropologia Culturale
14. Giorgio Bertucelli, Ingegnere, già Dirigente Industriale, ALDAI
15. Alessandro Bettini, Professore Emerito (Fisica) Università di Padova
16. Antonio Bianchini, Professore di Astronomia, Università di Padova
17. Luciano Biasini, Professore Emerito, già Docente di Calcoli Numerici e Grafici,

Direttore dell’Istituto Matematico e Preside della Facoltà di Scienze Matematiche,

Fisiche e Naturali dell’Università di Ferrara
18. Paolo Blasi, Professore Emerito (Fisica) e già Rettore dell’Università di Firenze, già

Presidente della Conferenza dei Rettori delle Università Italiane

19. Enrico Bongiovanni, Dottore Commercialista
20. Paolo Bonifazi, Ex Direttore dell’Istituto di Fisica dello Spazio Interplanetario (IFSI)

dell’Istituto Nazionale Astrofisica (INAF)

21. Roberto Bonucchi, Insegnante in Pensione
22. Giampiero Borrielli, Ingegnere
23. Francesca Bozzano, Professore di Geologia Applicata, Università di Roma La Sapienza,

Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici

(CERI)
24. Antonio Brambati, Professore di Sedimentologia, Università di Trieste, Responsabile

Progetto Paleoclima-mare del PNRA, già Presidente Commissione Nazionale di

Oceanografia

25. Gianfranco Brignoli, Geologo
26. Marcello Buccolini, Professore di Geomorfologia, Università di Chieti-Pescara
27. Paolo Budetta, Professore di Geologia Applicata, Università di Napoli
28. Antonio Maria Calabrò, Ingegnere, Ricercatore, Consulente
29. Monia Calista, Ricercatore di Geologia Applicata, Università di Chieti-Pescara
30. Massimo Canali, Associate Professor of Agricultural Economics and Policy,

Department of Agriculture and Food Sciences, University of Bologna

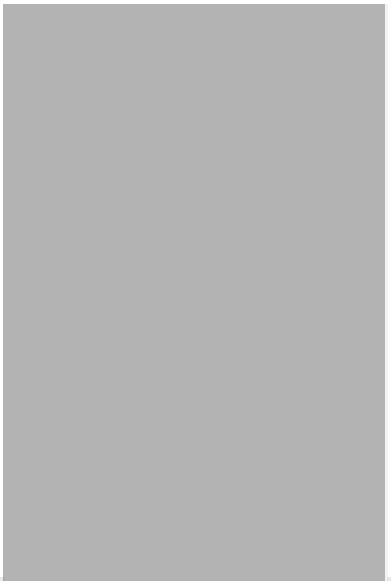
31. Cristiano Carabella, Geologo, Borsista presso l’Università di Chieti

32. Giovanni Carboni, Professore di Fisica, Università di Roma Tor Vergata, Movimento

Galileo 2001 33. Peppe Caridi

34. Franco Casali, Professore di Fisica, Università di Bologna e Accademia delle Scienze di Bologna

35. Dr. Agronomo Fausto Cavalli, Agronomist, specialisation in meteorology
36. Giuliano Ceradelli, Ingegnere e Climatologo, ALDAI
37. Augusta Vittoria Cerutti, Membro del Comitato Glaciologico Italiano
38. Franco Di Cesare, Dirigente, Agip-Eni



39. Alessandro Chiaudani PhD, Agronomo, Università di Chieti-Pescara
40. Luigi Chilin, Dirigente in Pensione
41. Claudio Ciani, Relazioni Internazionali, Scienza Politica, Università di Roma La

Sapienza
42. Edoardo Cicali, Membro del C.I.R.N (Comitato Italiano Rilancio del Nucleare) e

dell'associazione "Atomi per la pace", ex Dipendente di un Centro Medico Radiologico

ed Attualmente Impiegato nel Settore dell'Informatica
43. Pino Cippitelli, Geologo Agip-Eni
44. Carlo Colomba
45. Enrico Colombo, Chimico, Dirigente Industriale
46. Vito Comencini, Onorevole, Membro della Camera dei Deputati Italiana dal 2018 47. Enrico Conti, Physicist, Istituto Nazionale di Fisica Nucleare (INFN)
48. Ferruccio Cornicello, Fotografo e Lettore di Studi sul Clima
49. Domenico Corradini, Professore di Geologia Storica, Università di Modena
50. Carlo Del Corso, Ingegnere Chimico
51. Uberto Crescenti, Professore Emerito di Geologia Applicata, Università di Chieti-

Pescara, già Magnifico Rettore e Presidente della Società Geologica Italiana
52. Fulvio Crisciani, Professore di Fluidodinamica Geofisica, Università di Trieste e

Istituto Scienze Marine, Cnr, Trieste
53. Salvatore Custodero

54. Francesco Dellacasa, Ingegnere, Amministratore di Società nel settore Energetico
55. Alessandro Demontis, Perito Chimico Industriale, Tecnico per la Gestione delle Acque

e delle Risorse Ambientali, Pomezia
56. Serena Doria, Ricercatore di Probabilità e Statistica Matematica, Università di Chieti-

Pescara
57. Roberto d'Arielli, Geologo, Borsista presso l'Università di Chieti
58. Carlo Esposito, Professore di Rischi Geologici, Università di Roma La Sapienza 59. Gianluca Esposito, Geologo
60. Prof. Stefano Falcinelli PhD, Professor of Chemistry and Materials Technology,

Department of Civil and Environmental Engineering, University of Perugia
61. Antonio Mario Federico, Professore di Geotecnica, Politecnico di Bari
62. Aureliano Ferri, Vicepresidente Associazione Piceno Tecnologie
63. Maurizio Fiorelli, Sommelier Professionale, studioso dell'evoluzione nella Coltivazione

delle Vigne
64. Mario Floris, Professore di Telerilevamento, Università di Padova
65. Gianni Fochi, Chimico, Ricercatore in Pensione della Scuola Normale Superiore,

Giornalista Scientifico
66. Sergio Fontanot, Ingegnere
67. Luigi Fressoia, Architetto Urbanista, Perugia
68. Mario Gaeta, Professore di Vulcanologia, Università di Roma La Sapienza
69. Stefano Galli MSc in Chemical Engineering, retired researcher
70. Sabino Gallo, Ingegnere Nucleare e Scrittore Scientifico
71. Stefano Gallozzi, Degree in Physics (old italian rules), Researcher at the INAF, Italian

Institute for Astrophysics, Astronomical Observatory of Rome and presidente of the

Safegarding Astronomical Sky Foundation
72. Giuseppe Gambolati, Fellow della American Geophysical Union, Professore di Metodi

Numerici, Università di Padova
73. Alessio Del Gatto, Liceo Scientifico, Collaboratore Attivita Solare.it
74. Rinaldo Genevois, Professore di Geologia Applicata, Università di Padova
75. Umberto Gentili, Fisico dell'ENEA, Climatologo per il Progetto Antartide, ora in pensione 76. Enrico Ghinato, Perito Fisico
77. Mario Giaccio, Professore di Tecnologia ed Economia delle Fonti di Energia, Università

di Chieti-Pescara, già Preside della Facoltà di Economia
78. Daniela Giannessi, Primo Ricercatore, IPCF-CNR, Pisa
79. Roberto Grassi, Ingegnere, Amministratore G&G, Roma
80. Roberto Graziano, Ricercatore di Geologia Stratigrafica e Paleoclimatologia/

Paleoceanografia, Università di Napoli, già Geologo presso il Servizio Geologico d'Italia 81. Alberto Guidorzi, Agronomo
82. Roberto Habel, Professore di Fisica Medica, Università di Cagliari
83. Thomas Kukovec, Tropical Agronomist and Subtropical Field Biologist in the private

sector, specialised in semiarid agriculture, ecophysiology and phytogeography of

Sahelian and Saharan plants. Scientific adviser and consultant in research-projects

and learned societies

84. Nicola Iacovone, Physicist
85. Alberto Lagi, Ingegnere, Presidente di Società Ripristino Impianti Complessi

Danneggiati
86. Dr Francesco Lamberti PhD in Material Science of the University of Padova, working

on next generation PV

87. Luciano Lepori, Ricercatore IPCF-CNR, Pisa
88. Carlo Lombardi, Professore di Impianti Nucleari, Politecnico di Milano
89. Walter Luini, Geometra
90. Roberto Madrigali, Meteorologo
91. Angelo Maggiora PhD, INFN Senior Researcher, more than 40 years experience in

research at CERN, Saclay, Dubna and Frascati

92. Franco Maloberti, Emeritus Professor, expert on microelectronics and modelling
93. Ettore Malpezzi, Ingegnere
94. Vania Mancinelli, Geologo, Borsista presso l'Università di Chieti
95. Ludovica Manusardi, Fisico Nucleare e Giornalista Scientifico, UGIS
96. Luigi Marino, Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi

Geologici (CERI), Università di Roma La Sapienza
97. Maurizio Marsigli, Graduated in Geological Sciences and science author on the Sun

and Space Meteorology

98. Alessandro Martelli, Ingegnere, già Dirigente ENEA
99. Francesco Martelli, Professor Emeritus of University of Florence, Former President of

European Turbomachinery Society

100. Paolo Martini, consultant petroleum geologist with 30+ years of experience
101. Salvatore Martino, Professore di Geologia Applicata all'Ingegneria al Territorio ed ai

Rischi, Università di Roma “Sapienza”

102. Maria Massullo, Tecnologa, ENEA-Casaccia, Roma
103. Enrico Matteoli, Primo Ricercatore, IPCF-CNR, Pisa
104. Paul P.A. Mazza, Associate Professor of Quaternary Geology and Paleontology and of

Archeozoology, University of Florence
105. Paolo Mazzanti, Professore di Interferometria Satellitare, Università di Roma La

Sapienza

106. Adriano Mazzarella, Professore di Meteorologia e Climatologia, Università di Napoli
107. Marcello Mazzoleni, Docente e imprenditore nel settore della formazione, fondatore

del sito web MeteoSincero

108. Carlo Merli, Professore di Tecnologie Ambientali, Università di Roma La Sapienza
109. Enrico Miccadei, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-

Pescara
110. Gabriella Mincione, Professore di Scienze e Tecniche di Medicina di Laboratorio,

Università di Chieti-Pescara

111. Umberto Minopoli, Presidente dell’Associazione Italiana Nucleare
112. Alberto Mirandola, Professore di Energetica Applicata e Presidente Dottorato di

Ricerca in Energetica, Università di Padova
113. Aurelio Misiti, Professore di Ingegneria sanitaria-Ambientale, Università di Roma

La Sapienza, già Preside della Facoltà di Ingegneria, già Presidente del Consiglio

Superiore ai Lavori Pubblici

114. Maurizio Montuoro, Medico
115. Maria Luisa Moriconi, CNR researcher at Institute of Atmospheric Physics (retired)

and associate to INAF until 2020
116. Renzo Mosetti, Professore di Oceanografia, Università di Trieste, già Direttore del

Dipartimento di Oceanografia, Istituto OGS, Trieste
117. Daniela Novembre, Ricercatore in Georisorse Minerarie e Applicazioni

Mineralogichepetrografiche, Università di Chieti-Pescara

118. Francesco Oriolo, Professore di Impianti Nucleari, Università di Pisa
119. Paolo Emmanuele Orrù, Professore di Geografia Fisica e Geomorfologia, Università di

Cagliari

120. Sergio Ortolani, Professore di Astronomia e Astrofisica, Università di Padova
121. Alessandro Pagano, Geologist
122. Giorgio Paglia, Geologo, Borsista presso l’Università di Chieti
123. Massimo Pallotta, Primo Tecnologo, Istituto Nazionale Fisica Nucleare

124. Antonio Panebianco, Ingegnere
125. Giuliano Panza, Professore di Sismologia, Università di Trieste, Accademico dei Lincei

e dell'Accademia Nazionale delle Scienze, detta dei XL, vincitore nel 2018 del Premio

Internazionale dell'American Geophysical Union
126. Prof. Andrea Pardini PhD, University of Florence
127. Antonio Pasculli, Ricercatore di Geologia Applicata, Università di Chieti-Pescara 128. Ernesto Pedrocchi, Professore Emerito di Energetica, Politecnico di Milano
129. Davide Peluzzi, Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della

Laga nel Mondo nel 2017
130. Corrado Penna, Docente di Matematica
131. Enzo Pennetta, Professore di Scienze Naturali e Divulgatore Scientifico
132. Gianni Pettinari, Impiegato Amministrativo, Fondatore del gruppo Facebook: "Falsi

allarmismi sul riscaldamento globale"
133. Alessandro Pezzoli, Ricercatore Universitario e Professore aggregato in Weather Risk

Management, Politecnico di Torino e Università di Torino
134. Tommaso Piacentini, Professore di Geografia Fisica e Geomorfologia, Università di

Chieti-Pescara
135. Stefano De Pieri, Ingegnere Energetico e Nucleare
136. Paolo M.J. Pilli, Pensionato
137. Massimo Pilolli PhD Physics, Physicist, Meteorologist, Teacher
138. Mirco Poletto, Geologo libero professionista, registered at 'Ordine dei geologi del

Veneto'
139. Andrea Pomozzi, Presidente Associazione Piceno Tecnologie
140. Guido Possa, Ingegnere Nucleare, già Viceministro del Ministero dell'Istruzione,

Università e Ricerca con delega alla Ricerca
141. Alfonso Pozio PhD, Senior Researcher, ENEA CR Casaccia, Rome
142. Giorgio Prinzi, Ingegnere, Direttore Responsabile della Rivista "21mo Secolo Scienza

e tecnologia"
143. Franco Prodi, Professore di Fisica dell'Atmosfera, Università di Ferrara
144. Franco Puglia, Ingegnere, Presidente CCC, Milano
145. Francesca Quercia, Geologo, Dirigente di Ricerca, Ispra

146. Nunzia Radatti, Chimico, Sogin
147. Arnaldo Radovix, Geologo, Risk Manager in Derivati Finanziari
148. Maurizio Rainisio, Mathematician, Lifetime career in Clinical Development and

Epidemiology
149. Mario Luigi Rainone, Professore di Geologia Applicata, Università di Chieti-Pescara 150. Mario Rampichini, Chimico, Dirigente Industriale in Pensione, Consulente
151. Arturo Raspini, Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG),

Consiglio Nazionale delle Ricerche, Firenze
152. Renato Angelo Ricci, Professore Emerito di Fisica, Università di Padova, già Presidente

della Società Italiana di Fisica e della Società Europea di Fisica, Movimento Galileo

2001
153. Marco Ricci, Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare
154. Renzo Riva, Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja
155. PierMarco Romagnoli, Ingegnere, Milano
156. Vincenzo Romanello, Ingegnere Nucleare, Ricercatore presso il Centro di Ricerca

Nucleare di Rez, Repubblica Ceca
157. Piergiorgio Rosso, Ingegnere Chimico
158. Stefano Rosso, Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena 159. Alberto Rota, Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie

Rinnovabili
160. Ettore Ruberti, Ricercatore ENEA, Docente di Biologia Generale e Molecolare 161. Giancarlo Ruocco, Professore di Struttura della Materia, Università di Roma La

Sapienza
162. Sergio Rusi, Professore di Idrogeologia, Università di Chieti-Pescara
163. Massimo Salleolini, Professore di Idrogeologia Applicata e Idrogeologia Ambientale,

Università di Siena
164. Nicola Scafetta, Professore di Fisica dell'Atmosfera e Oceanografia, Università di

Napoli
165. Emanuele Scalcione, Responsabile Servizio Agrometeorologico Regionale ALSIA,

Basilicata

166. Nicola Sciarra, Professore di Geologia Applicata, Università di Chieti-Pescara
167. Francesco Sensi, Generale di Divisione Aerea (R)
168. Massimo Sepielli, Direttore di Ricerca, ENEA, Roma
169. Leonello Serva, Geologo, Accademia Europa delle Scienze e delle Arti, Classe V, Scienze

Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia
170. Roberto Simonetti, Geologo, R&D c/o Azienda S.I.I.
171. Elio Sindoni, Professore Emerito dell'Università di Milano Bicocca
172. Enzo Siviero, Professore di Ponti, Università di Venezia, Rettore dell'Università

e-Campus
173. Rinaldo Sorgenti, Deputy Chairman of ASSOCARBONI
174. Ugo Spezia, Ingegnere, Responsabile Sicurezza Industriale, Sogin, Movimento Galileo

2001
175. Luigi Stedile, Geologo, Centro di Ricerca Previsione, Prevenzione e Controllo Rischi

Geologici (CERI), Università di Roma La Sapienza
176. Emilio Stefani, Professore di Patologia Vegetale, Università di Modena
177. Flavio Tabanelli, Fisico
178. Maria Grazia Tenti, Geologo
179. Umberto Tirelli, Visiting Senior Scientist, Istituto Tumori d'Aviano, Movimento Galileo

2001
180. Giorgio Trenta, Fisico e Medico, Presidente Emerito dell'Associazione Italiana di

Radioprotezione Medica, Movimento Galileo 2001
181. Roberto Vacca, Ingegnere e Scrittore Scientifico
182. Gianluca Valensise, Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia,

Roma
183. Prof. Paolo Sebastiano Valvo PhD - Associate Professor of Solid and Structural

Mechanics, University of Pisa
184. Corrado Venturini, Professore di Geologia Strutturale, Università di Bologna
185. Flavio Vetrano, Honorary Professor of General Physics, DiSPeA, University Carlo Bo ,

Urbino
186. Benedetto De Vivo, Professore di Geochimica in Pensione dall'Università di Napoli, ora

Professore Straordinario presso Università Telematica Pegaso, Napoli
187. Andrea Zaccone, Geologo, Dirigente Protezione Civile Regione Lombardia
188. Luigi Zanotto, Docente in Pensione
189. Franco Zavatti, Ricercatore di Astronomia, Università di Bologna
190. Antonino Zichichi, Professore Emerito di Fisica, Università di Bologna, Fondatore e

Presidente del Centro di Cultura Scientifica Ettore Majorana di Erice

SCIENTISTS AND PROFESSIONALS FROM JAPAN

1. Masayuki Hyodo, Professor of Earth Science, Kobe University
2. Yoshihiro Muronaka, Professional Engineer, PE Office President, Energy & Environment 3. Mototaka Nakamura, Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)
4. Dr. Hiroshi L. Tanaka, Professor in Atmospheric Science, Centre for Computational

Sciences, University of Tsukuba

SCIENTISTS AND PROFESSIONALS FROM KUWAIT

1. Mohammad A. AlKhamis, DVM, MPVM, PhD, Assistant Professor of Epidemiology, Department of Epidemiology and Biostatistics, Faculty of Public Health, Health Sciences Center, Kuwait University

SCIENTISTS AND PROFESSIONALS FROM MALAYSIA

1. Chris Schoneveld, Earth Scientist and Retired Shell Exploration Geophysicist

SCIENTISTS AND PROFESSIONALS FROM MALTA

1. Joseph Attard, Retired Scientist, PhD chemical engineering MSc Electronics Communication

SCIENTISTS AND PROFESSIONALS FROM MEXICO

1. Rubén Coronal Méndez, Master degree in Applied Economics, Industrial Engineer
2. Luis Frausto, Chemical Engineer
3. Armando Páez PhD, Urbanism, Expert in Sustainability and Energy Transitions
4. Victor Manuel Velasco Herrera PhD, Space Engineer

SCIENTISTS AND PROFESSIONALS FROM NAMIBIA

1. Dr Simon Idris Beshir, Cardiologist, currently involved in Green Project in Kalahari Desert

SCIENTISTS AND PROFESSIONALS FROM THE NETHERLANDS

1. *Prof. Dr. Ir. Guus Berkhout, Emeritus Professor of Geophysics, Delft University of Technology, Member of the Royal Netherlands Academy of Arts and Sciences; WCD Ambassador*

2. *Dr. Cornelis le Pair, Physicist, Former CEO Physics & Technology Research Organisations; WCD Ambassador*

3. Jan H. Akkerman MSc, Structural Geology, worked 19 years with Billiton in Mining and Geology and the last 20 years with DG A van Akkerman Exploration BV

4. Maarten van Andel, Author of the 'Groene Illusie'
5. Jan Asselbergs, Mechanical Engineer who started his career with IHC. Since 1990 he is

active in revitalizing medium sized companies
6. Dries Ausems MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-Energy

Industry

7. René Bakers, Former Lawyer and Attorney Liability and Insurance
8. Dr. Thomas W. Bakker, Lifetime Experience in the Geo-energy Industry, Founder and

former (or retired) CEO of Well Engineering Partners BV
9. Robert Becht, Lifetime R&D Experience in Water Management with emphasis on

water management in East Africa
10. Frans van den Beemt, Nuclear Physicist, Former Program Director Technology

Foundation STW
11. Drs. A (Toine) J. A. Beukering, Bgen (b.d.), Member of the Provincial Council of Zuid

Holland, Member of the Senate (Eerste Kamer) of the Dutch Parliament (the States

General)
12. Jim van Beusekom, Retired Captain B747-400 with KLM, 35 years observational

knowledge of the Earth's atmosphere
13. Maarten Biesheuvel MSc and PhD Chemical Technology, University of Twente, Senior

Scientist Chemical Engineering and Water Technology, Wetsus

14. Andre Bijkerk, Retired Officer Royal Dutch Air Force, now Climate Researcher
15. Dr. Frans Bijlaard, professor-emeritus steel constructions, TU Delft
16. Dr. Ruud Binnekamp Msc. Integral Design and Management, teacher and researcher in

design and decision systems at TU Delft

17. Peter Bloemers, Emeritus Professor of Biochemistry, Radbout University, Nijmegen
18. Albert F.T. de Booij †, Founder Speakers Academy Int. BV, Founder en CEO World of

Consciousness.com
19. Hans Bouman MSc, Chemistry, Professional in Production Technology and Asset

Management
20. Dr. Ir. Arnold Bovy, retired, former Director Energy Transmission Company

MEGALIMBURG

21. Ben Braam Msc in Physics, lifetime career in space instrumentation
22. Paul M.C. Braat, Emeritus Professor of Pulmonary Physics, University of Amsterdam
23. Solke Bruin, Emeritus Professor of Product-driven Process Technology, University

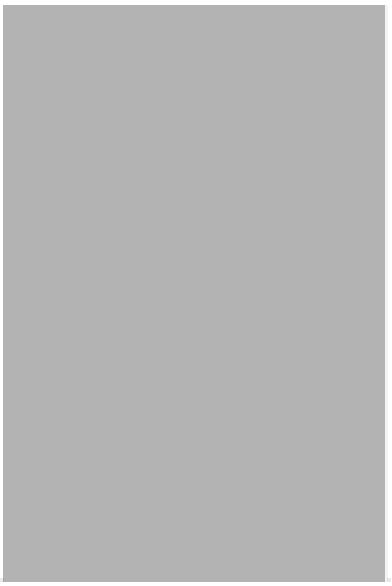
of Eindhoven and Former Member Management Committee Unilever Research,

Vlaardingen

24. Dr. Theo Claassen, Aquatic Ecologist
25. Paul Cliteur, Professor of Legal Sciences, Member of the Senate of The Netherlands
26. Albert J.H.G. Cloosterman, Retired Chemical Engineer, Publicist on Climate and

Cosmological Matters

27. Charles Coleman, former executive Olivetti Group International
28. Marcel Crok, Climate Researcher and Science Journalist



29. Gerhard Diephuis MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo Energy Industry, Guest Lecturer TU Delft

30. Henck van Dijck, Sculptor, designer and innovator
31. David E. Dirkse, Former Computer Engineer and Teacher Mathematics
32. Dr. Tjibbe Dokter MBA, Expert in Scenario Analysis and Risk Assessment, retired from

AkzoNobel
33. Marco Draaisma, ICT Process Coördinator
34. Vincent van Driel, MSc Mechenical Engineering TU Delft, Design and Construction of

gas/oil processsing plants, Retired
35. Dr. Jan W. Drukker, Emeritus Professor Industrial Design Delft University of

Technology, University of Twente and (Visiting Professor) Tsinghua University

(Beijing PRC). Elected Member Regional Parliament of the Dutch Province Drenthe 36. Arjan Duiker, Process Technologist at Tata Steel, specialist on Thermodynamics and

Fluid Mechanics
37. Louw Feenstra, Emeritus Professor Erasmus University and Philosopher, Rotterdam 38. Arnold Fellendans, Physics at TU Delft, 40 years at Unilever (retired), www.

omdeaarde.nl
39. Frans Galjee, Mechanical Engineer, Retired Researcher at ECN
40. Jan van Gils, Teacher in Physics
41. Henk Goemans MSc, Geosciences, specialized in Reservoir Engineering
42. Frans H Gortemaker, Former Vice president Unilever Global R&D
43. W. J. Evert van de Graaff, Consulting Geologist, 50+ years Global Experience
44. Ton J.T. Grimberg, Oil & Gas Professional, Finance Adviser
45. Katharina Grimm Msc Agroecology and Sustainable Food Systems, Project Leader

energy transition at the municipality of Epe
46. Kees de Groot, Former Director Upstream Research Lab. Shell

47. Paul de Groot PhD, Geoscience, Manager dGB Earth Sciences
48. Lex A. van Gunsteren, Marine propulsion expert, former director of Corporate

Planning and R&D of the Royal Boskalis Westminster Group, former professor of

Technology at TU Delft and Erasmus University
49. Leo Halvers, Former Director Billiton Research Arnhem and Former Director

Technology Foundation STW
50. Hans Hamaker, University Degree in Phonetic Sciences, expert in biomechanics of

speech, supporter of plasma cosmology, former wireless communication officer 51. Maarten Hardon BSc, Civil Engineering, Lifetime Experience in Offshore Industry,

Director Venty BV
52. Eduard Harinck, Former Logistics Expert, Nedlloyd Group/KPMG Consulting
53. Godard Hazeu MSc, Geoscciences, specialized in Geology, past Technical Director of

the Dutch State Oil and Gas Company EBN
54. Edward Heerema Msc in Civil Engineering TU Delft, President of Allseas, worldwide

active in offshore pipelaying and platform lifting
55. J.R Hetzler, Retired WUR Engineer Forestry Economics
56. Dr. Tom van der Hoeven, Energy Transport Modeling Expert
57. Dr. Martijn Hoevenaar, Independent Researcher, Physics, Education, Medicine
58. Jan F. Holtrop †, Emeritus Professor of Petroleum Engineering, Delft University of

Technology
59. Hans Hombroek MSc, Geoscience, Lifetime Experience in the International Geo-

Energy Industry
60. Tom Hoornstra, Airconditioning Engineer
61. Jan Horstink, Earth Scientist, Exploration Projects Oil & Gas ME & FE
62. A. Huijser, Physicist and Former CTO Royal Philips Electronics
63. Jan de Jager, emeritus professor Geology (VU University Amsterdam, University of

Utrecht)
64. Jan C. de Jong Msc Process Engineering TU Delft, expert in energy-and thermal

process engineering, lifetime career in the oil and gas industry
65. Jan de Jong, former director Sampo Industrial Insurance NV. Benelux and Electrorisk

Verzekeringsmaatschappij N.V.
66. Wouter J. Keller, Emeritus Professor of Statistical Methods, Former Member Board of

Directors, Central Bureau of Statistics (CBS)
67. Jacques van Kerchove, Economist and Marketeer, Former CFO Rabobank, now Climate

and Environment Researcher

68. Henri G. Kerkdijk-Otten, Msc History, University of Nijmegen (graduated in 1998), Founder and chairman of Restoring Africa's Wildlife Foundation, Founder and former chairman (until august 2017) of True Nature Foundation https:// truenaturefoundation. org/

69. Rob de Kok, Principal Geophysicist, researching Influence of CO2 on Atmospheric Temperatures

70. Hans Kolmschate, Chemical Engineer, University of Twente
71. Henk de Koning MSc, former Principal Management Consultant Atos Consulting with

specialisation Logistics, IT and Information Security
72. Rob W.J. Kouffeld †, Emeritus Professor of Energy Conversion, Delft University of

Technology
73. Hans H.J. Labohm, Former Expert Reviewer IPCC
74. Arjan Lenoir, MSc Industrial Sciences
75. B.G. Linsen, Former Director Unilever Research Vlaardingen
76. Jaap M. van Luijk, Msc. Petroleum Engineering, lifetime experience in the international

geoenergy industry
77. Pieter Lukkes, Emeritus Professor of Economic and Human Geography, University of

Groningen
78. Hugo Matthijssen, Former Teacher Meteorology, now Publicist on Climate Matters 79. Leo D. Minnigh, retired scientist in structural geology, lecturer/speaker for non-

professionals
80. Dr. Rob Mooij, PhD in Nuclear Physics at University of Utrecht, MS Computer Science

at Drexel University, Philadelphia, Retired as Medical Physicist from University of

Pennsylvania
81. Ir. J.M. Mulderink, Former General Director Akzo-Nobel
82. Rob Nijssen, Radar Engineer and Publicist on Climate Matters
83. Rutger van den Noort PhD, Advisor in Innovation Processes, CEO Newcalf
84. Dr. Chris Oldenhof PhD in Photochemistry, Retired from the Dutch chemical company

DSM
85. Peter Oosterling, Former Scientist E & P Shell, now active as Climate Researcher
86. Daan Osinga, Geologist

87. Kees Pieters, Mathematician, Former Operational Research and ICT manager at Shell 88. Robert J van der Plas MSc Applied Physics, MSc Development Studies, Sustainable

Energy Management and Development Specialist
89. Reynier Pronk, Former IT Manager, Accredited Project Management Consultant and

Trainer
90. Paul Ras Msc Geophysics TU Delft, Geophysical Consultant, climate realist
91. Ir B. Peter Rauwerda Msc. in nuclear engineering, TU Delft
92. Louis M.P.T. van den Reek, PharmD, Member of 'De Groene Rekenkamer'
93. Jan C. Reinoud, retired CEO Dutch chain of Supermarkets
94. A.G. Reitsma, MSc in Social technology, planned change (University of Groningen

1978) Social Technician
95. Kees Remi, Electrical Engineer, lifetime experience in Energy Distribution and

Industrial Automation
96. Joseph Reynen, Finite Element Modeling Expert, Retired from EU Joint Research

Centre in Ispra, Emeritus Associate professor TU Delft
97. G.T. Robillard, Emeritus Professor of Biochemistry and Biophysics
98. Jaap Romijn Msc in Civil Engineering TU Delft, lifetime experience in water

management projects
99. Kees Roos, Emeritus Professor of Optimization Technology, Delft University of

Technology
100. Rutger van Santen, Emeritus Professor of Anorganic Chemistry and Catalysis, Former

Rector Magnificus, Eindhoven University
101. Don Schäfer, Former Director Shell Exploration & Production and New Business, Shell 102. Juleon Schins PhD in Molecular Physics, specialist in near infrared spectroscopy
103. Dr. Rob Schoevaart, Biocatalist, Co-founder and Managing Director of ChiralVision,

being specialised in making chemical processes greener
104. Frans Schrijver, Strategy Consultant and Climate Publicist
105. Bert Sigmond, Geologist, Founder of EuGeNe Company in Geothermal Energy
106. Hendrick Smit, Chemical Engineer, specialised in Environmental Instrumentation 107. Jos de Smit, Emeritus Professor of Stochastic Operations Research and Former Rector

Magnificus of the University of Twente

108. Barend-Jan Smits, Geologist, Former Director of Wintershall Nederland, BASF Group 109. Jack van Soest BSc, Geography teacher (retired)
110. Dr. Engel van Spronsen PhD in Physics, Lifetime career in Shell as researcher,

reservoir engineer, and technical manager. After Shell he also worked for Maersk OiI,

IMPaC Engineering, and Eneco
111. Albert Stienstra †, Emeritus Professor of Computer Simulation and Micro-Electronics,

Delft University of Technology
112. P.J. Strijkert, Former Member Board of Directors of DSM, Delft
113. Hans van Suijdam, Former Executive Vice President Research and Development DSM 114. Dick Swart, MSC; worldwide drilling expert, lifetime of experience in the geo-energy

industry
115. Dr. Harry C. M. de Swart, Emeritus Professor of Logic and Language Analysis,

University of Tilburg and Erasmus University Rotterdam, Author of the book

'Philosophical and Mathematical Logic'
116. Peter van Toorn, Former Research Geophysicist Shell
117. Fred Udo, Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels
118. Ir. Arnold Uijlenhoet, retired electrical engineer with degree from Technical University

Delft and postgraduate studies at the University of Pittsburgh (U.S.A). Lifetime

international experience in power generation, transmission, and distribution 119. Maarten Vasbinder MD, specialized in prion theories and practice
120. J.F. van de Vate, Former Director ECN, Petten, Former UN Delegate IPCC
121. Jan Verheij, Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of

Noise Control Engineering at Eindhoven University of Technology
122. Hans Verschuur MSc, Geosciences, specialized in Mining
123. H. Verveer, Civil Engineer, lifetime experience in maritime infrastructure and building

services
124. Jannes. J. Verwer, Former Director ECN and Former Chairman Supervisory Board State

Owned Radio Active Waste Storage Facilities
125. Dr Koen Vogel, Geologist and Geostatistician, lifetime experience in numerical

modelling, proficient in evaluating and developing global energy projects
126. Henk van der Vorst, Emeritus Professor of Numerical Mathematics, University of

Utrecht
127. Bart Vos, Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy

Industry
128. Rob de Vos, Geographer and Editor of "Klimaatgek"
129. Henk de Vries, lifetime experience in organised crime, expert in digital forensics 130. Jaap van der Vuurst de Vries, Emeritus Professor of Petroleum Engineering, Former

Dean Faculty of Applied Earth Sciences, Delft University of Technology
131. Dr. Jules de Waart PhD in Physical Geography, Exploration Geologist in Africa, Past-

member of the Dutch Parliament, author of the book on Climate Change and Energy

Transition "Don't believe everything"
132. Dr. André Wakker, energy expert, lifetime experience in nuclear energy, speaker and

writer on energy transition
133. Karel Wakker, Emeritus Professor of Astrodynamics & Geodynamics, Delft University

of Technology
134. Robert N. Walter MSc E.E., Member Advisory Board 'De Groene Rekenkamer'
135. Cyril Wentzel, Multi-Physics Engineer and Chairman of Environmental Think Tank

'Groene Rekenkamer'
136. Frans A. van der Werf, Master of Law, Owner of an International Business for

Management, Consultancy and Finance
137. Dolf van Wijk, Formerly AkzoNobel Environmental Research Laboratory and Former

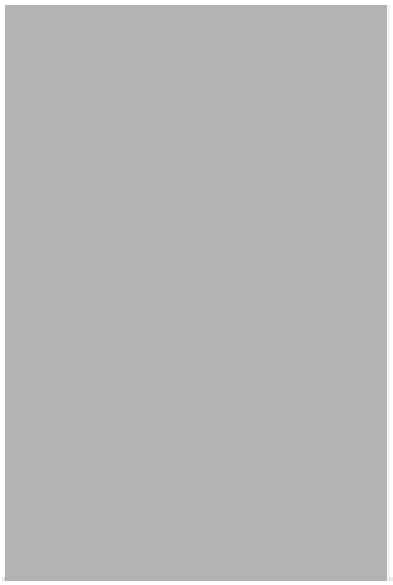
Executive Director Cefic-Euro Chlor, Brussels
138. Jaap Wijsman, Mechanical Engineer, active in the offshore industry
139. Jan Winkel MSc, Chemical Engineering, specialization in Natural Gas Projects, Lifetime

Experience in the GeoEnergy Industry
140. Theo te Winkel, Geo Scientist and International Health Care Specialist
141. W.J. Witteman, Professor of Applied Physics and CO2 Lasers, University of Twente 142. Dr. Hans Wolkers PhD in Dierfysiologie en natuurbeheer en ruim 20 jaar

onderzoekservaring, onder andere in arctische ecotoxicologie, nu actief als

wetenschapsjournalist en universitair docent in 'Schrijven over Wetenschap' 143. Theo Wolters, Chairman Environment, Science & Policy Foundation, Co-founder

'Groene Rekenkamer' and 'Climategate.nl'



144. Govert Zijderveld, MSc Mining Engineering, Consultant for all Drilling, Mining and Naval Engineering activities

145. Dr. E.J. (Ed) Zuiderwijk, Retired Astrophysicist and Data Manager
146. Diederik Zwager MSc Petroleum Engineering, CEO Air Drilling Associates

SCIENTISTS AND PROFESSIONALS FROM NEW ZEALAND

1. *Barry Brill OBE, Previously Minister of Science and Techology; WCD Ambassador* 2. Deborah Alexander, Agricultural Scientist
3. Jock Allison, Retired Agricultural Scientist, Ministry of Agriculture
4. Paul A. Catchpole, Qualified Land Surveyor & Fellow of New Zealand Institute of

Surveyors, Retired Ex Commissioner of the New Zealand Environment Court
5. Roger High Dewhurst, Retired, Geologist/Hydrogeologist
6. Terry Dunleavy † MBE, Co-Founder (2006) and Honorary Secretary New Zealand

Climate Science Coalition
7. Geoffrey. G. Duffy, Professor Emeritus, University of Auckland
8. Doug Edmeades, Managing Director agKnowledge Ltd.
9. Professor Michael J Kelly, MA, PhD, SCD, MAE, Emeritus Prince Philip Professor

of Technology at the University of Cambridge, Fellow of the Royal Society, Fellow of the Royal Academy of Engineering, Fellow of the Institute of Physics, Fellow of the Institution of Engineering and Technology, Senior Member of the Institute of Electronic and Electrical Engineering

10. Joe Fone, CAD Engineer, Enatel Ltd.
11. Gary Kerkin, Retired Chemical Engineer, Upper Hutt. Executive member New Zealand

Climate Science Coalition
12. Brian Leyland, Power Systems Engineer and Experienced Renewable Energy

Specialist
13. Gerrit J. van der Lingen, Geologist and Paleoclimatologist, New Zealand, Author of the

Book “The Fable of Stable Climate”
14. Dr. John Maunder, Climate Scientist, President of the WMO Commission for

Climatology 1989-1996
15. Dr Richard Reaney, Climate Researcher, Post Graduate Qualification in Antarctic

Studies, University of Canterbury New Zealand
16. Darag S. Rennie MBChB, Lifetime explorer of truth
17. John Scarry ME (Civil), Structural Engineer, Member of the New Zealand Climate

Science Coalition
18. John Sexton, Member of the New Zealand Climate Coalition
19. David Shelley, Emeritus Associate Professor Geology and latterly Dean of

Postgraduate Studies, University of Canterbury, Christchurch
20. David Steward, Electronic Engineer, Supporter of truth seeking in climate change 21. Philip Strong, Science Research Leader & Member of the New Zealand Climate

Coalition
22. Richard Treadgold, Executive Member NZ Climate Scienc Coalition, Convenor Climate

Conversation Group
23. Ian Wright, Professional Geologist

SCIENTISTS AND PROFESSIONALS FROM NORWAY

1. *Ivar Giaever, Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical Society; Honorary WCD Ambassador*

2. *Jan-Erik Solheim, Professor Emeritus Astrophysics, University of Tromsø – The Arctic University of Norway; WCD Ambassador*

3. Gunnar Abrahamsen, Professor Emeritus Soil Science, University of Life Sciences
4. Knut Åm, retired geoscientist, holding positions at the Geological Survey of Norway,

the Norwegian Petroleum Directorate, Statoil (R&D Manager), several positions with Phillips Petroleum Company both in Norway and the United States and adjunct Professor of Geophysics at the University of Bergen, Norway. Knut Åm is Honorary member of The Norwegian Academy of Technological Sciences

5. Egil Bergsager MSc of UCLA, and also University of Oslo, Petroleum Geologist, Director Norwegian Petroleum Directorate, President Rogaland Science Park. Board member of many advanced technology companies

6. Stein Sorlie Bergsmark, Phycisist, Former Head of Renewable Energy Studies Programmes, University of Agder

7. Einar R. Bordewich, multidiscipline Engineering
8. Dr. Hans Borge, Associate Professor in Mathematics, University of Stavanger
9. Reidar Borgstrøm, Professor Emeritus in Fishbiology and Nature Conservation,

University of Life Sciences
10. Ole Henrik Ellestad, Physical Chemist. Former Research Director and Professor in

Petrochemistry at the Centre for Industrial Research and University of Oslo. Former Managing Director of Norwegian Computer Centre. Former Division Director of Norwegian Research Council. Previous Chairman of the Board, Klimarealistene

11. Jon Gulbrandsen PhD, Biologist, Associate Professor NOFIMA and NOAA (USA) 12. Arve Gleissner Gustavsen, Msc in Cybernetics, Lifelong Experience in Design and

Engineering
13. Rögnvaldur Hannesson, Professor Emeritus, Norwegian School of Economics
14. Geir Hasnes, Adjunct Associate Professor, Institute of applied Cybernetics, Norwegian

University of Science and Technology
15. Martin Torvald Hovland, Geophysical and Geological Advisor, Former Lecturer at

University of Tromsø
16. Ole Humlum, Professor Emeritus in Physical Geography, University of Oslo
17. Morten Jødal †, Biologist, Former Employee of the Norwegian Research Council and

the Centre for the Development and Environment at the University of Oslo
18. Dr. Ing. Hans Konrad Johnsen, Dr. Ing.
19. Olav Martin Kvalheim, Emeritus Professor, Chemistry, Bergen University
20. Arnfinn Langeland, Professor Emeritus Biology, Norwegian University of Science and

Technology
21. Mikael Lindgren, MS Applied Phyics and electronics, PhD Chemical Physics, Prof

Applied Physics (Optics) and Biophysics (spectroscopy)
22. Willy Nerdal, Professor of Chemistry, University of Bergen
23. Johannes Oraug, Landscape Architect, Researcher for 11 years at the Norwegian

Institute for Urban and Regional Research
24. Egil Pedersen, Dr. Eng. and Professor of Technology at UiT The Arctic University of

Norway
25. Elen Roaldset, Emertitus Professor in Geology, University of Oslo, Former Director

of Natural History Museum Oslo, Professor at Norwegian University of Science and

Technology
26. Ulf Torgny Rock, Master of Chemical Engineering, Norsk Hydro
27. Håkon Gunnar Rueslåtten, Geological Researcher, Trondhheim
28. Tom V. Segalstad, Associate Professor Emeritus of Geochemistry, University of Oslo 29. Einar Sletten PhD, Professor in the Dept of Chemistry, University of Bergen
30. Jørgen Stenersen, Professor Emeritus Eco-Toxicology, University of Oslo

SCIENTISTS AND PROFESSIONALS FROM PARAGUAY

1. Albrecht Glatzle, Retired Director Research of INTTAS (Iniciativa para la Inverstigación y Transferencia de Tecnología Agraria Sostenible)

SCIENTISTS AND PROFESSIONALS FROM THE PHILIPPINES

1. Melanchthon Bernil, Professional Chemical Engineer

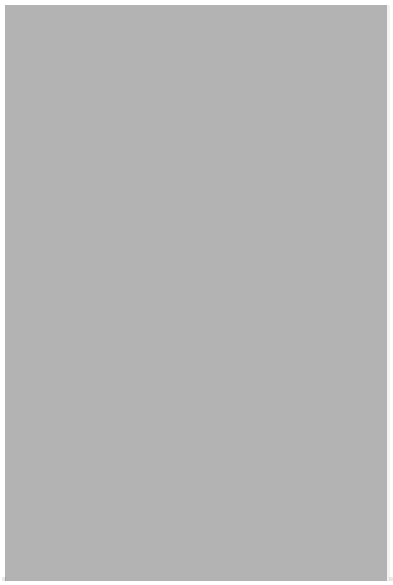
SCIENTISTS AND PROFESSIONALS FROM POLAND

1. Marek Boinski, Chairman of the National Section of Energy Workers' Union NSZZ
2. Zbigniew Gidzinski, Advisor to the Chairman of the Silesian Region of the Solidarity

Union in charge of the climate policy as well as a former Secretary of the National

Energy Security Team of the Chancellery of the President of Poland
3. Jaroslaw Grzesik, Chairman of the National Secretariat of Mine and Energy Workers'

Union NSZZ
4. Dominik Kolorz, Chairman of the Slasko-Dabrowski Region of NSZZ



SCIENTISTS AND PROFESSIONALS FROM PORTUGAL

1. Demétrio Carlos Alves, Chemical Engineer, specialized in Processes and Systems, Postgraduate in Legal Issues of Urban Planning, University of Lisbon

2. Rui Cruz, Pharmaceutical Development Scientist, PhD In Chemical and Biological Engineering (Material Science Focus for Solar Energy Applications)

3. Pieter IJzerman, entrepreneur in modern energy solutions and electric mobility
4. J.M.S. Martins, retired agrarian researcher
5. Pamela Matlack-Klein, Member of Portuguese Sea Level Project, USA
6. Dr. Peter Stallinga, Professor Associado com Agregação, Universidade do Algarve,

Portugal, Faculty of Sciences and Technology, Department of Electronic Engineering

and Informatics
7. João Tilly, Mechanical Engineer and Maths teacher

SCIENTISTS AND PROFESSIONALS FROM ROMANIA

1. Marius Bratu, Senior Meteorologist, short and medium range weather forecast

SCIENTISTS AND PROFESSIONALS FROM RUSSIAN FEDERATION

1. Habibullo Abdussamatov, Head of the Space Research Sector of the Sun, Pulkova Observatory RAS and Head of the Lunar Observatory Project on Monitoring of the Climate

2. Prof. Vladimir N. Bashkin, DrSc (biol), Professor in Biogeochemistry and Risk Assessment in Moscow State University, Cornell University, Seoul National University, Bangkok King Mongkut Technological University; vice-chairperson of WG of UN Convention on Long-Range Transboundary Air Pollution and PR in the Institute of Physico-chemical and Biological Problems of Soil Sciences RAS, Pushchino, Russia

3. Pavel Bizyukov PhD in Metallurgical Engineering, faculty member at Moscow State Institute of Steel and Alloys

4. Gleb I. Evgenev, Professor of Environment, Moscow State Technical University (MADI)
5. Vladimir G. Kossobokov, Chief Scientist, Professor Expert, Russian Academy of

Sciences Past Vice-Chair, IUGG "GeoRisk" Commission (IUGG Commission on Geophysical Risk and Sustainability) Core Member, ISSO (International Seismic Safety Organization)

6. Eugene Nagibin, MA in Economics, CIR, Territorial Development and Management Consultant

7. Henni Ouerdane, Assistant Professor, Manager of the Energy Systems PhD Programme, Skolkovo Institute of Science and Technology, Moscow Region

8. Dr. Michael Petelin, professor of the University of Nizhny Novgorod, head researcher of the Institute of Applied Physics, Nizhny Novgorod

SCIENTISTS AND PROFESSIONALS FROM SAUDI ARABIA

1. Christopher M. Fellows Phd, physical chemist

SCIENTISTS AND PROFESSIONALS FROM SERBIA

1. Ivan Stefanovic, Curator of collection, Faculty of Mining and Geology, University of Belgrade

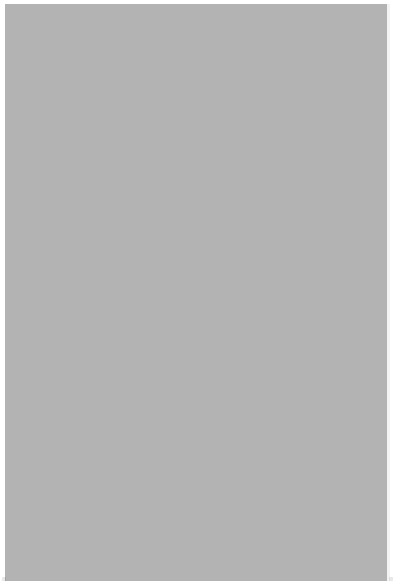
SCIENTISTS AND PROFESSIONALS FROM SINGAPORE

1. Andrew Frazer, offshore drilling, earth sciences and renewables
2. Dr. Lars Schernikau, Energy Economist, Entrepreneur & Author

SCIENTISTS AND PROFESSIONALS FROM SLOVENIA

1. Borut Bohanec, Emeritus Professor of Biotechnology, active to explain major missinterpretations of scientific discoveries

2. Ján Lakota MD, PhD molecular biology
3. Rafael Mihalič, Professor of Electrical Engineering, University of Ljubljana



SCIENTISTS AND PROFESSIONALS FROM SOUTH AFRICA

1. Rosemary Falcon, Emeritus Professor Clean Coal Technology Research Group at the University of Witwatersrand, Director Fossil Fuel Foundation

2. Dennis Shaun Garisch BSc (Civil) Eng, Professional Engineer registered with Engineering Council of South Africa (ECSA), over 30 years of practice, inclusive of many storm water management designs

3. Dr Hans Hofmann-Reinecke, nuclear physicist, author of several books “Grün und Dumm”, articles an videos on global warming and alternative energies for the general public

4. Rob Jeffrey, Economic Risk Consultant: Senior Economist and Managing Consultant, leading expert in energy and electricity

5. Kelvin Kemm PhD, Nuclear Physicist, CEO Nuclear Africa, Pretoria
6. Dr. John Ledger PhD, Visiting Associate Professor at the University of the

Witwatersrand, Energy and Environmental Consultant, Consulting Editor, Freelance

Writer, Editor and Lecturer
7. Prof. Richard Meissner, Associate Professor, Department of Political Sciences,

University of South Africa

8. Don Mingay, Retired Professor of Nuclear Physics
9. Dr. Henrique J.S. de Barros Pinheiro, Geologist, Invited Associate Professor,

Universidade Fernando Pessoa, Porto, Portugal
10. Professor Martin R. Sharpe, PhD from University of Exeter, retired Geologist,

Geochemist, Analyst and Field Mapper at University of Pretoria, Founder of geological consulting and exploration companies in Southern Africa

SCIENTISTS AND PROFESSIONALS FROM SOUTH KOREA

1. *Dr. Seok Soon Park, Professor of Environmental Science and Engineering, Ewha Womans University, Seoul, Founder of the Climate Truth Forum; WCD Ambassador*

2. Zonghie Han, economist at Daegu University

SCIENTISTS AND PROFESSIONALS FROM SPAIN

1. *Blanca PargaLanda PhD, Modelling Expert, specialist in Environmental Law; WCD Ambassador*

2. Dr. Saúl Blanco, Associate Professor of Ecology at the University of León
3. Ferran Brunet, Professor on the European Economy, Unniversitat Autònoma de

Barcelona
4. Maria Teresa Estevan Bolea, Ingeniero Laureado 2019 Royal Spanish Academy

of Engineering. World Award 2018 In Engineering WFEO (World Federation of

Engineering Organizations), National Prize in Industrial Engineering 2019.
5. José Carlos Gonzàlez Hidalgo, Professor of Physical Geography, teaching more than

20 years on Climatology and doing Research on the Topic, University of Zaragoza,

Dep. Geografia
6. Antonio J. Huertas, Engineer with 35 years experience in Energy Politics and

Operation, and Environmental Care
7. Isabel López García PhD on Chemical Engineering, Assistant Professor of Physical

Chemistry and applied Thermodynamics , University of Córdoba

8. Alexander Keith Martin PhD Geology and Geophysics, Consultant geologist
9. Antonio Jesús Muñoz Cobo Doctor in Environmental Sciences from the University of

Jaén member of the research group TEP-233 (Environmental Technologies) of the

Department of Chemical, Environmental and Materials Engineering
10. Luis Pomar, Emeritus Professor of the University of the Balearic Islands, Spain,

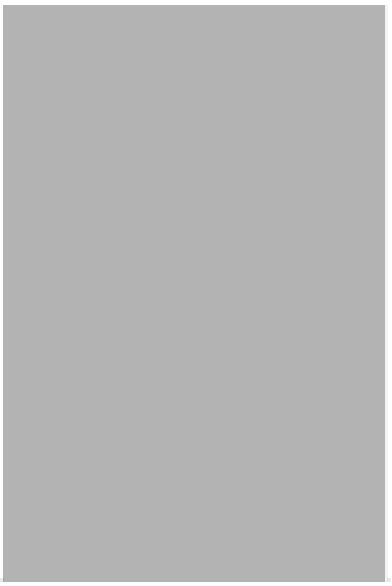
Sedimentologist specialized in the study of Carbonate Rocks which the Impact of CO2

and Paleoclimate are essential to understand the origin of these rocks

11. Javier Vinós PhD, Scientist and independent climate researcher
12. Wynn Williamson, cofounder and managing partner of real estate developer BWRE

SCIENTISTS AND PROFESSIONALS FROM SWEDEN

1. *Ingemar Nordin, Emeritus Professor Philosophy of Science, Linköping University; WCD Ambassador*



2. Michael Andersson Bsc in biology, medical doctor, retired Chief Medical Officer at a battalion of the Swedish Airforce

3. Leif Åsbrink PhD, Technology at KTH in Molecular Physics, Stockholm
4. Sture Åström MSc, Technology, Professional in Climate Issues, Secretary of the

Swedish Network Klimatsans
5. Erik Axelkrans MSc in physics and physical oceanography, University of Gothenburg 6. Rolf Bergman, Emeritus Professor of Physical Chemistry, Uppsala University
7. Dr. Lars Bern, Member of The Royal Swedish Academy of Sciences, Retired CEO in

Incentive AB
8. Joakim Blomqvist, Sr. Design Manager for design and energy solutions within a larger

construction company
9. Magnus Cederlöf, Software Specialist, Stockholm
10. Tore Dalväg Msc, Physics, Research Engineer in Hydrodynamics and Thermodynamics,

Senior Advisor in Environmental Standards, Author of 'CO2 a source of life or a threat' 11. Hans Eklund PhD, Technology, Acting Professor at the Department of Laser-and

Electro-optics, Chalmers University of Technology, Gothenburg
12. Per-Olof Eriksson, Physicist, Former CEO of Sandvik Group
13. Dr. Anders Flodin PhD, Mechanical Engineering, NC, USA
14. David D. Gee, Professor Emeritus Orogen Dynamics, Uppsala University
15. Anders Grufman MSE, MA Economics, Industrial and Environmental Economics 16. Jan Hagberg PhD, Statistics, Stockholm
17. Björn Hammarskjöld MD, PhD in Biochemistry, Assistant Professor in Pediatrics 18. Lars Hässler PhD, Rock and Soil Mechanics, Bsc Chemistry and Biology, MSc Civil

Engineering
19. Eilif Hensvold PhD, Mathematics, Associate Professor of Mathematics (Retired),

Simulation of Large-scale Industrial Systems, Uppsala University, Luleå Technical

University
20. Gunnar Holmgren PhD, Space Physics, Retired Head of Dept. of Engineering Sciences,

Uppsala University
21. Mats Janson MSc, Electrical Engineering, KTH Royal Institute of Technology,

Stockholm
22. Hans Jelbring, Climate Researcher
23. Göran Johansson, Specialist in Energy Systems
24. Claes Johnson, Emeritus Professor of Mathematics at Royal Institute of Technology,

Stockholm
25. Gunnar Juliusson, Professor of Hematology, Lund University, Senior Consultant, Skåne,

University Hospital, Lund
26. Sten Kaijser, Emeritus Professor of Mathematics, Uppsala University
27. Johnny Kronvall Mah, Emeritus Professor in Building Physics, Malmö University and

Lund University
28. Lars E. Linder, Associate Professor of Medicine, Gothenburg
29. Rune Lundgren MSc, Helsinki University of Technology, Energy System Expert
30. Johan Montelius, Associate Professor of Computer Science at the Royal Institute of

Technology, Stockholm
31. Jacob Nordangård PhD, Technology and Social Change at the University of Linköping,

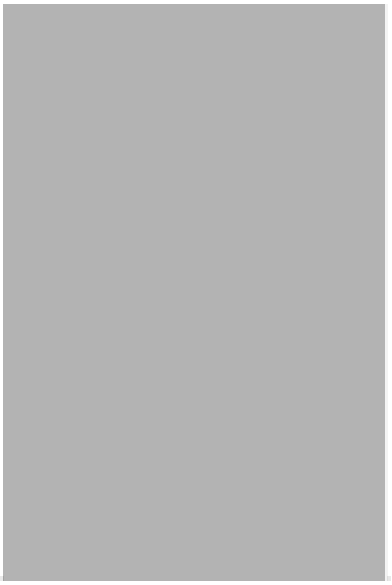
Researcher on Climate Change History
32. Gabriel Oxenstierna PhD, retired, currently author for Klimatupplysningen.se
33. Gösta Pettersson, Emeritus Professor in Biochemistry, University of Lund
34. Marian Radetzki, Emeritus Professor of Economics, Luleå University of Technology 35. Mats Rosengren, Mathematics, Space Flight Trajectory Specialist
36. Torsten Sandström, Professor Emeritus, Department of Law, University of Lund
37. Rabbe Sjöberg PhD, Geology, Member of Paleogeophysics & Geodynamics Institute 38. Peter Stilbs, Emeritus Professor of Physical Chemistry, Royal Institute of Technology

(KTH), Stockholm
39. Prof. Jan-Olov Strömberg, Emeritus Professor of Mathematics at Royal Institute of

Technology, Stockholm
40. Tege Tornvall, Member of Klimatrealisterna and of its election committee, active in

network Klimatsans
41. Lars H. Thylen, Professor Emeritus in Photonics, Dept. of Theoretical Chemistry

and Biology, Royal Institute of Technology, Stockholm, specializing in Low Power Nanophotonics Technology



42. Gösta Walin, Proffessor Emeritus in Oceanography at Univerity of Gothenburg 43. Elsa Widding, Consultant, Author on Climate Change, Stockholm
44. Lech Wosinski, Researcher Emeritus, Associate Professor, Royal Institute of

Technology, Stockholm
45. Örjan Wrange PhD, Emeritus professor in Molecular Genetics

SCIENTISTS AND PROFESSIONALS FROM SWITZERLAND

1. Dr. Denis Bednyagin, researcher specialised in integrated (EnergyEconomy Environment) assessment modelling

2. Thomas Binder, Cardiologist and Internist
3. Majed Chergui, Emeritus Professor of Chemistry and Physics
4. Helmut Elben PhD in Physics, working as Strategy, Technology and IT Consultant 5. Dr. Michael Esfeld, full professor of philosophy of science, University of Lausanne 6. Ferruccio Ferroni, Dipl.Ing. ETH, Energy Consultant
7. Rene Funk, Software engineer, specialized in Analysing Satellite, Sea and land

Temperature
8. Werner Furrer MSc, Mathematics and Physics, President of the Climate Realistic

Group in Switzerland
9. Christian Jacot, Pharmacist
10. Markus D. Knecht, chemist, 15 years research on climate change
11. Joseph Ongena, Member of the Permanent Monitoring Panel for World Energy, World

Federation of Scientists, Geneva
12. Dr. Jean-Claude Pont, Dr. Math., Emeritus Professor of The History of Philosophy of

Sciences, University of Genève
13. Dr. Franz-Karl Reinhart, Emeritus Professor of Physics, Lausanne
14. Claude Roessiger, Entrepreneur and Author of several Books on Organizational

Management and Public Policy, Organiser and Chairman of the Portsmouth

Conference 2018 on Climate Policies
15. Heinz Schmid, Dipl. Ing. Agr ETH, more than 10 years involement in climate science

and climate communication
16. Dr. Ralf Lorenz Schmitt PhD in Chemistry, Product Manager
17. Thomas Stadler MSc in Physics, ETH Zürich, Geophysics, Specialty in Geothermics 18. Prof. Dr. Eric P. Verrecchia, Full professor at the University of Lausanne, Chair of

Biogeochemistry at the Institute of Earth Surface Dynamics; expert in the terrestrial

carbon cycle of the tropical and temperate zones
19. Dr. Eric Vieira retired PhD (organic chemistry), 27 years at Roche Pharmaceuticals

(Principal Scientist)

SCIENTISTS AND PROFESSIONALS FROM TURKEY

1. Prof. Kerem Cankocak, Professor in Particle Physics at Istanbul Technical University 2. Ufuk Coscun, columnist at Milat Newspaper

SCIENTISTS AND PROFESSIONALS FROM UKRAINE

1. Vsevolod Lozitsky, DrSci, Astronomical Observatory of Taras Shevchenko National University of Kyiv, expert in area of solar physics, solar activity and magnetic field, as well as solarterrestrial connections

2. Irina Vasiljeva CSc, Research Fellow at the Main Astronomical Observatory of National Academy of Science of Ukraine, research interests include solar physics

SCIENTISTS AND PROFESSIONALS FROM UK

1. *Christopher The Viscount Monckton of Brenchley, Peer of the Realm and Author of several reviewed papers on Climate; WCD Ambassador*

2. Neils C. Arveschoug, Geophysicist, Private start-up Oil E&P Company 3. Nigel Banks PhD Geology, Petroleum Geologist
4. Andrew P. Barker, Biological Chemist
5. John Anthony Barney, Retired Scientist and Technologist

6. Nik Bartley, Mechanical Engineer

7. Nigel Beckwith, professional graduate Podiatrist, Post Grad. in Sports Science, Post Grad. in Science Education

8. Alan Richard Belk, retired Mechanical Engineer with a 40+ year international career in energy, industrial gas and chemical industries

9. Roshan Bhunnoo, Mathematics and Statistics, former Climate Data Analyst at the Meteorological Office

10. Paul Binns, Former Research Geoscientist and Climate Researcher
11. David Bodecott, Geologist/Geophysicist, Fellow of the Geological Society of London 12. Dr. Richard Booth, retired Special Merit mathematician in the UK Civil Service
13. D.Q. Bowen, Emeritus Professor of Earth and Ocean Sciences, Fellow International

Union for Quaternary Research, Cardiff University
14. Dr Phillip A. W. Bratby, Physicist, Member of the Institute of Nuclear Engineers, retired

energy consultant
15. Michael Brown, Expert in Large Scale Thermal Fluid Dynamic Models
16. Paul Burgess, BSc, MSc, C.eng retures, Retired water resources engineer
17. Derrick Byford BSc (Hons) holder of 10 patents, previously Deputy Director Research

& Statistics Inner London Education Authority
18. Gerry Byron BSc in Physics, MBA which included modules on statistical anylysis 19. Peter Cale, Solicitor, co founder and fund raiser for wave energy research project as

Director of Staithe Energy Products (1988 1995)
20. George Carey, BSc Hons. Physics and Geology, Lifetime Physics teacher and amateur

astronomer
21. Brian R. Catt, Physicist, Electrical Engineer, Retired, publishing papers on Energy and

Climate Change
22. Arthur Champion, retired European Environmental Coordinator and CofE Diocesan

Environmental Adviser
23. John Church, Earth Science Professional, Retired from Energy Sector
24. David Coe, MA(Oxon) in physics, Retired after a lifetime in industry working on

gaseous absorption spectroscopy, Lead author of the paper “The Impact of CO2, H2O

and Other Greenhouse Gases on Equilibrium Earth Temperatures”
25. John C.W. Cope, Professor of Geology, National Museum Wales, Cardiff
26. Richard Courtney, Retired Material Scientist, Expert Peer Reviewer of the IPCC
27. Chas Cowie, GDE Mining Engineering, Wits University, Retired IT Professional worked

primarily in Mining and Logistics Industries
28. Dr. David Critchley, Senior Clinical Pharmacologist, mathematical modelling of

complex systems
29. Michael Cross, Chemical Engineer
30. Peter Cunningham, Expert in Mathematical Modelling of Complex Physical Phenoma 31. Isabel Davies, Geophysicist and Entrepreneur
32. Dr Philip George Davies, Principal Lecturer in the Department of Computing and

Informatics at Bournemouth University
33. Robert Davies BSc Airline pilot
34. Dr. Keith P. Dawson, Environmental and Agricultural Researcher
35. Jeremy Dawson, retired Chartered Engineer with a career in the oil and gas industries 36. John Dewey, Emeritus Professor of Geology at the University College Oxford,

Distinguished Emeritus Professor University of California, Member of the US National

Academy of Sciences, Fellow of the Royal Society
37. Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of

London
38. James Dillon BSc Physics, DPhil Nuclear Physics, Former research physicist
39. Gregor Dixon FGS, Geologist, Former Member Geological Society of London
40. Peter Dorey BSc Physics, Senior Project Manager, (and unpaid educator & Climate

Scientist)
41. Timothy (Tim) C. Duckworth, Retired Mechanical Engineer in the Oil & Gas industry,

Senior Auditor in Management/Facility/HSE
42. Dr. Michael Earle, international earth scientist, energy professional, author
43. Dr. John S. Easterby, Retired Senior Lecturer in Biochemistry University of Liverpool,

Research area: Protein chemistry, Enzymology, Metabolic Modelling
44. Roderick Paul Eaton, MBA FIET MCMI, Retired Consultant Energy Industry Analyst/

Management Consultant
45. Debra Eddy, Entrepreneur and Guest Lecturer in Business Management

46. Dr Andrew Edmonds, data scientist with a strong background in AI, past CTO of a publicly traded US tech company, currently CEO of a private US company, ThinkBase LLC

47. Peter Etherington-Smith, Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG

48. Kevin Foo MSc, DIC, Dip. Met, AusIMM, IOM3, SME, Ch.Eng., President Tianshan Jade (UK) Ltd

49. Sean Galbally, Project Manager Water and Wastewater Systems
50. Kalghatgi Gauram PhD Aeronautical Engineering, Consultant Professor, 50 Years'

experience in R&D in combustion, fuels and energy
51. Gil Gilchrist, Geophysicist
52. Alan Gill, Retired Engineer in South Wales
53. Peter Gill, Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch

Chair & Fellow of EI
54. Paul R. Goddard, retired Professor of Radiology, University of the West of England 55. John D. Goss-Custard PhD Ecology, University of Aberdeen, Visiting Professor in the

Department of Life and Environmental Sciences, Bournemouth University
56. Alastair Gray, retired geologist, 50 years in oil exploration, production and asset

evaluation
57. Delphine Gray-Fisk, Former airline pilot, and parliamentary candidate for both the UK

Independence Party and Brexit Party
58. Mick Greenway, specialized in Research and Development of Flight Control Systems

for Modern Civil and Military Aircraft, Retired Head of Research and Development

within a Multi-Million-Dollar Company
59. David P. Gregg, retired Unilever Research group leader and scientist, former visiting

professor in control engineering, book author on studies of historical climate time

series based on modern spectral analysis techniques
60. Brian Gregory, MA. in Natural Sciences, MSc. in Business Studies, Lifetime Career in

the UK Chemical Industry, currently Policy Director of the Alliance of British Drivers 61. Jimmy Haigh, Independent Geological Consultant
62. Stephen Hardcastle, Retired Electronics Engineer, 10 years experience in the design of

NDIR gas detectors, for gases including CFC's CO2, CH4 and N2O
63. Tim Harper, Geomechanics Consultant and Researcher, previous Recipient of the

Royal Academy of Engineering MacRobert Award for Engineering Innovation
64. John Harrison, Former Chartered Physicist and Chartered Engineer
65. Ken Harrison, Retired Chartered Physicist
66. Peter Harvey, Project Manager – Renewable offshore wind industry
67. Raymond Hayes, BA (Lond) M.Litt (Oxon) FRGS Solicitor Hong Kong and England and

Wales
68. Robert Heath, Retired Geophysicist, Honorary member of the Indian Society of

Petroleum Geologists
69. Alex Henney, Formerly London Electricity Board, Consultant on Electricity Matters 70. Roger Higgs, DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd.
71. Tatiane Melchior Stefanello Hodson, Oceanographer, author, undertaking a Master's

degree in International Public Policy at Queen Mary University of London
72. Dr Sinclair Holland, MBChB(Edin) Medical Doctor
73. Paul Homewood, Climate & Energy Policy Analyst
74. Keith H. James PhD, Consultant Geologist
75. Anthony Janio PhD in Physics, Independent Elected Councillor in Brighton and Hove 76. David A.L. Jenkins, Geologist, Director Hurricane Energy plc
77. Dr. Chris Jesshope, Emeritus Professor University of Amsterdam, Director Techne

Consulting Ltd.
78. David Jessop C.Eng., M.I.C.E., lifetime career in the water industry
79. Robert Jones, BSc and PhD Mining Engineering, Director at Warwick Energy
80. Stephen Latimer Jones BA Chemistry, IT professional
81. Zana Juppenlatz, Consultant in environment, environmental law and sustainability,

including renewable energy projects
82. John L.D. Kerr B.A. (Hons) in Environmental Science & Technology; B.Sc. (Hons) in

Chemistry, active as Environmental Consultant
83. David A. Kirkwood MSc MIET, Professional engineer working in IT, Deputy Chairman

of Reform UK Scotland

84. Geoffrey W. Lane, retired Marine Engineer and Technical Author
85. Roger Longstaff, Experimental Space Physicist and Company Director
86. Anthony Lowe BSc Hons Polymer Chemistry and Physics, Consultant Polymer

Solutions
87. Peter Justin Lunt MSc Geology London, adjunct lecturer in geology (stratigraphy) at

Universiti Teknologi Petronas and Shandong University of Science and Technology

(SDUST) Qiangdao
88. Tom Mackay BSc, Geologist, Fellow of the Geological Society (FGS) of London
89. Chris MacKenzie MSc, Director and Geological & Environmental Consultant at Peak

Minerals Ltd.
90. Stephen Martin, retired exploration geophysicist
91. CJ Matchatte-Downes, Geologist and Geochemist, particularly involved in studies

about past Climates including Glaciation
92. William James McAuley MSc from Imperial College and an M.B.A. from Lehigh

University, retired Chemical Engineer with a 40+ year international career in energy,

industrial gas and chemical industries
93. Dr. Niall McCrae PhD in Mental Health
94. Krov Menuhin, Expert on ocean life, underwater filmmaker, professional diver,

pilot and writer, explored the Earth's extremities, experiencing the oceans and the

atmosphere first-hand
95. Geoffrey Middleton, Chartered Architect, Socal Science
96. Terence Mordaunt, Accomplished businessman, Self taught climate scientist mentored

by Professor David Bellamy
97. Dr. William Morgan, Retired Clinician
98. Dr Ian Mortimore BSc, Phd, MB, BS, FRCP, retired Consultant Respiratory Physician in

the NHS with research affiliations to Edinburgh and Newcastle Universities
99. Philip Mulholland, Geoscientist, Life time experience in the Geo-Energy Industry, co-

author of the DAET climate model
100. Stuart Munro, Exploration Geologist and Geophysicist
101. Edward Nealon, Geologist Member of the Australian Institute of Mining & Metallurgy 102. Alex Nichols, BSc Geography, MSc Environmental Assessment, 27 years in

sustainability consultancy, programmes and projects
103. Blair Nimmo, Electronic Engineer, working in Computer Networking and Optical

Surface Metrology and Fibre Optics
104. Gerard O'Donovan, Entrepreneur, Business Owner, career in building international

and multinational organisations
105. Michael John Oates, Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow

of the Geological Society of London
106. Peter Owen FGS, Fellow of the Geological Society of London
107. Jonathan R. Partington, Emeritus Professor of Mathematics, University of Leeds 108. Dennis Paterson, Geologist, Retired
109. Dr. James Petch, Physical Geographer, formerly Reader in Environmental Science at

MMU and Head of Distributed Learning at the University of Manchester
110. Peter Phillips BSc Hons Mechanical Engineering, lifetime experience in the geo-energy

industry
111. Graeme Phipps, geologist and geophysicist, Jersey Channel Islands
112. Dr. James Pindell, Geologist, specialised in plate tectonics and palaeographic

evolution, Director of Tectonic Analysis Ltd (UK), Adjunct Professor at Rice University

(USA)
113. Gerry A. Quinn, Research Scientist, Ulster University, lifetime career in microbiology,

biochemistry and environmentalism
114. Clive Randle, Geologist, Fellow of the Geological Society of London
115. Michael J. Rath, Professional Forrester
116. Jonathan Charles Read, Honours degree in Physics from the University of Durham,

member of the Institute of Physics (MInstP), Fellow of the Chartered Association of

Certified Accountants (FCCA)
117. Dr. Colin Richard Reeves, Emeritus Professor of Operational Research, Expert in

Mathematical Modelling
118. Ceri Reid, PhD Electrical and Electronic Engineering, Sonar Specialist
119. Steven Andrew Richards MSc, Retired Chartered Engineer, Retired Lecturer from

Portsmouth University and Southampton Solent University
120. Michael F. Ridd, Geologist, Fellow of the Geological Society of London

121. Anthony Robb PhD, Retired Chemist
122. Salmaan Saleem, Family Medicine Doctor
123. Richard Saumarez, Biomedical Engineer from Imperial College
124. Robert M. Schneider MSCE, retired Civil Engineer
125. Michael Seymour, Geologist, Fellow of the Geological Society of London
126. Mike Sluman, Retired teacher with an honours Degree in Environmental Biology 127. Dr. Ian Smith, MSc Maritime Archaeology, PhD Chemistry
128. Mike Stigwood, Environmental Researcher
129. Stephen Taylor PhD, Infra-Red Physicist and Tidal Hydrographer, MD Geomatix Ltd.,

Member of Inst. of Physics, Member of Inst. of Electrical and Electronic Engineers,

Associate Fellow of Royal Institute of Navigation, Member of the Hydrographic Society 130. Leslie Thomson, Retired Vice President Operations, BP Exploration, Aberdeen
131. Derek Tipp, BSc honours degree in chemistry, former research chemist and retired

science teacher, currently councillor on New Forest District Council
132. David Todd, retired Associate Member of the Institute of Bankers, Post Graduate

Certificate in Business and Management
133. Edwin Thwaites, Retired Principal Lecturer in Organisational Analysis and Crisis

Management, University of Central Lancashire, Predton
134. Matthew D. Waggener, Financial professional, strategic consultant on business

investments
135. Dr. Glenn K. Wakley, Emeritus Associate Professor Biological Science, Fellow of the

Royal Society of Biology and member of The Anatomical Society
136. Professor David Wastell, Emeritus Professor of Information Systems at the University

of Nottingham
137. Philip Linden Wilkes, Life time Experience in Marine Biology
138. Jay Willis, Marine Scientist, Associate of the OxNav Group of Oxford University
139. Paul White, BSc Physics, Durham University, Retired, Former Higher Scientific Officer

Marine Climatology
140. Matt Wood, BSc in Metallurgy & Materials Science, Retired Airline Pilot, Patent holder 141. Valentina Zharkova, Professor of Mathematics and Astrophysics, Northumbria

University, Newcastle upon Tyne
142. Ivor Zoeftig, International communications coach specialised in chaodynamics and

NLP LP

SCIENTISTS AND PROFESSIONALS FROM USA

1. *Dr. John F. Clauser, Nobel Laureate Physicist; WCD Ambassador*
2. *Richard Lindzen, Emeritus Professor Atmospheres, Oceans and Climate, MIT; WCD*

3. Edward Abbott MD, Retired obstetrician, BSc in math and chemistry
4. Dr. Syun-Ichi Akasofu, Professor of Geophysics, Founding Director of the International

Ambassador

Arctic Research Center of the University of Alaska Fairbanks from 1998 until 2007.

Previously, prof. Akasofu had been director of the University's Geophysical Institute
5. Ralph B. Alexander, Emeritus Professor of Physics, Science Writer
6. Michael Antonetti P.G., Professional geologist for 35+ years in Pennsylvania with Ms in

glacial geomorphology
7. Anthony J. Armini, Retired Founder and CEO Implant Sciences Corp.
8. Dr. Malgorzata Askanas, Senior R&D Associate at the Aurora Biophysics Research

Institute
9. Hans-Peter Bähr, Emeritus Professor of Pharmacology, Canada and Former Dean of

Basic Medical Sciences, American University of Barbados, Barbados
10. Jeffrey Baldwin, petrophysicist and rock physicist specialist
11. Lynne Balzer, certification in Biology, Chemistry and Physics, founder of Faraday

Science Institute, retired high school teacher (chemistry, physics and biology), adjunct

college science professor
12. Donna Barr, lifetime career as investigative journalist worldwide
13. Bryan Barrilleaux, MD, Physician of Internal Medicine
14. Joe Bastardi, chief meteorologist Weatherbell.com, Author of Amazon weather/

climate best sellers: The Climate Chronicles: Inconvenient Revelations you Won't Hear from Al Gore and others; 2cnd Book: The Weaponization of Weather in the Phony Climate War

15. Captain Walter Bates, flew virtually all of United Airline's aircraft all over the world, including everything from the old DC-6 up through the largest Boeings such as the B-777 and the B 747-400; from his lifetime of experience he knows that the so-called man-made Mid-Troposhere Hot Zone just does not exist

16. Charles G. Battig, Climate Adviser, Heartland Institute
17. Eric Baum PhD in Theoretical Physics, Princeton University
18. Scott Beattie, Juris Doctor Degree (Law), studied history of science for 25 years and

climate science for ten years
19. Dr. Ernest Calvin Beisner, Expert on the Ethics and Economics of Climate and Energy

Policy, Founder and Spokesman of The Cornwall Alliance for the Stewardship of

Creation
20. Larry Bell, Endowed Professor of Space Architecture, University of Houston
21. Frank X. Bellini, Geologist and Environmental Scientist, lifetime experience in the

nuclear power industry
22. Dr. Shmuel Ben-Shmuel PhD in Aerospace & Mechanical Engineering, retired

aerospace engineer, worked on the Space Shuttle, doing Computational Fluid

Dynamics simulations
23. David J. Benard, Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical

Laser
24. Haym Benaroya, Distinguished Professor of Mechanical and Aerospace Engineering,

Rutgers University
25. Edward X. Berry PhD, Atmospheric Physicist, American Meteorological Society,

Author, Climate Physics LLC
26. Ronald Berti, lifetime career in the semiconductor industry
27. Brent J. Bielema, studied Economics at Northern Illinois University, professional

nutritional counseler
28. Dr. David L. Black, Clinical and Forensic Toxicologist (Microbiology, Immunology,

Pathology, Pharmacology), Vanderbilt University Nashville, currently adjunct and

member of Department of Medicine Board of Visitors
29. Jared L. Black, Numerical Analysis Consultant, ScD
30. Thomas Lindsay Blanton PhD in Tectonophysics, Texas A&M University, Over 40 years

experience as an advisor and consultant in geomechanics specializing in compaction,

subsidence, and lithospheric stress determination
31. Elliott D. Bloom, Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG,

Stanford University
32. David Boleneus, Professional Geologist
33. Daniel Botkin, Emeritus Professor of Biology, Climate Researcher, Author of the Book:

Twenty-five Myths That Are Destroying the Environment
34. Robert L. Bradley jr., CEO and Founder of the Institute for Energy Research
35. Dr. William Briggs, Alumnus Cornell University, Writer and Philosopher
36. Daniel Brimhall, MS Extractive Metallurgy, University of Utah, retired Vice President

Operations, American Chemet, East Helena, MT, now active as consultant
37. Clare Livingston (Bud) Bromley III, BS Natural Sciences, scientific instruments

executive
38. Joel M.G. Brown, retired petroleum engineer
39. Dr.Larry Frank Brown PhD in Range Plant Ecology (Ecophysiology) from Colorado

State University (1974), President of L.F. Brown & Assoc. Inc.
40. Gerald Brunetto, Retired after lifetime career in engineering & building nuclear &

fossil fuel fired steam power plants
41. James W. Buell PhD, Aquatic Biologist, Consultant
42. Robert Bugiada, Senior Process Engineer at R.C. Costello & Assoc. Inc 43. Dr. H. Sterling Burnett PhD, Applied Philosophy with a specialization in

Environmental Ethics, past Senior Fellow of the National Center for Policy Analysis,

now Senior Fellow Heartland Institute
44. David Burton, System and Computer Scientist, Expert Reviewer of AR5 and AR6,

Member of the CO2 Coalition, and Creator of the SeaLevel.info website
45. Mark Shane Butler, MA in mathematics, lifetime career in data science
46. Roger Caiazza, Pollution Meteorologist, life time experience in the electric generating

business, retired Director of the Environmental Energy Alliance of New York,

currently managing the blog Pragmatic Environmentalist of New York
47. Ron Cakebread, mechanical engineer with 35 years in the industrial automation

business; experience in modeling, simulation, and analysis of very complex systems 48. Sharon R. Camp PhD, Retired Analytical Chemist and Environmental Scientist

49. Nick Capaldi PhD, Author Books on Logic, the Scientific Method and the Philosophy of Science

50. John M. Cape, P.E. former military officer and economics instructor at West Point, Licensed Professional Engineer, Energy Consultant - Upstream Oil and Gas, now writing Net Zero themed novels

51. John Carr, Electronic Engineer, specialised in antenna and satellite installations
52. Marion G. Ceruti PhD Chemistry, Retired Research Scientist, Space and Naval Warfare

Systems Center Pacific
53. Dr. Francis Cheng, Professor of Chemistry with specialties in carbon materials,

batteries and energy conversion, University of Idaho
54. Mitchell R. Childress, Archaeologist and Cultural Resource Environmental Compliance

Specialist, Commonwealth Heritage Group
55. Prof. Krishnan Chittur, emeritus-professor in chemical engineering and biotech, Univ

of ALabama Huntsville, cofounder of medical diagnostics startup (genecapture)
56. Terigi Ciccone, Engineer, author of “A Hitchhiker’s Journey Through Climate Change,”

and a proud former Sierra Club member
57. Dr. Claudio Cioffi-Revilla, PhD, DSc Pol, University Professor Emeritus at George

Mason University, Jefferson Science Fellow of National Academy of Sciences, Fellow of AAAS American Association for the Advancement of Science, Member of AMS American Mathematical Society

58. Roy Clark, Climate Researcher, Retired Engineer, California
59. Bob Cohen, Certified Consulting Meteorologist (CCM), MS in (physical) oceanography

from Texas A&M University and a BS in meteorology from Penn State University,

I have been working with weather data and applications of this data for over 40 years 60. Dr. Richard Collingham PhD in Engineering, Professor for 16 years teaching Graduate

Level Heat Transfer and Fluid flow courses
61. Sabin W. Colton PhD, Biochemist and Marine Biologist
62. Gary Cooke MSc Geophysical Sciences, Laboratory analyst and manager, studied sea

level curves since the 1980s
63. Martin Cornell, Retired Senior Scientist, Dow Chemical Company
64. David T. Cramer, MS, Instructor of Sociology and Psychology, Pratt Community College 65. Daniel Clyde Cummings, M.D. University of Utah School of Medicine, B.A. mathematics,

political advocate against all treaties and most legislative proposals to limit use of

fossil fuels
66. John Curtin Msc in Economics, lifetime experience in strategic planning and

forecasting
67. Joseph S. D'aleo, Professor of Meteorology and Climatology at Lyndon Stage College,

Founder of Icecap.us, First Director of meteorology of the Weather Channel
68. Raphael D'Alonzo, Analytical Chemist, Retired Associate Director, the Proctor &

Gamble Company
69. George Davey, Physicist, University of Iowa
70. Donn Dears, GE Company Engineer, and Senior Executive, Retired, Author of 'Net-zero

Carbon, The Climate Policy Destroying America'
71. Ken DeGraaf, MSc Engineering Mechanics, Structural Dynamics, Colorado House

of Representatives, USAF pilot, Instructor: USAFA AP Calc; weather for pilots,

Environmental Manager, Michigan ANG
72. James DeMeo PhD, Retired Expert in Earth and Atmospheric Science, Oregon 73. David Deming, Professor of Arts & Sciences, University of Oklahoma
74. William Robert Detzner, retired special education teacher, fighter agains the

continuing reduction of personal freedom
75. David Dilley MSc, Meteorologist-Climatologist-Paleoclimatologist, CEO Global

Weather Oscillations Inc.
76. Robert G. Dillon, retired physician and astronomist
77. Robert G. Dodge, Attorney
78. Terry Donze, BS-Geological Engineering, Lifetime Career in Geophysical Consulting 79. Michael Down, Petroleum Engineer, lifetime experience in the geo-energy industry 80. Jack D. Downing, Geologist and Geophysicist
81. Gordon A. Dressler MSc, 36-year professional career as a rocket and spacecraft

propulsion engineer, awarded six patents in the field of rocket propulsion
82. Paul Driessen, Senior Policy Advisor, Committee for a Constructive Tomorrow

(CFACT) and Congress of Racial Equality (CORE) 83. John Droz jr., Physicist, Founder of AWED Alliance

84. Dr. William DuBroff PhD Metallurgy, Former Director of Research Inland Steel, Former Asst. Professor Clemson University

85. John Dueker, MBA University of Houston, BSEE University of Notre Dame, 45 years of experience in environmental permit compliance

86. Murray Duffin, BScEE, MBA, former Corporate Vice President for Total Quality and Environmental Management, Retired

87. John Dale Dunn MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas

88. Prof. James E. Enstrom PhD, MPH, FFACE, Retired UCLA Research Professor in Epidemiology, President of the Scientific Integrity Institute, Los Angeles

89. Richard G. Eramian, BA in MPthematics and physics
90. Willis Eschenbach, Generalist and Author of many (peer-reviewed) critical Climate

Articles with numerous Citations
91. Vincent Esposito, Adjunct Professor University of Pittsburg, PA, Doctor of Science in

Nuclear Engineering (Un. FoViginia), Retired Manager fromWestinghouse Electric

Company
92. Douglas Fairobent, Retired Physicist trained in Condensed Matter Theory, PhD

(Physics), University of Michigan, 1978
93. Peter Farrell, Fellow of the US National Academy of Engineering
94. Ralph English Fisler, Professional Aerospace Engineer
95. Edward Patrick Flaherty, American lawyer based in Geneva, litigating against the UN,

WMO, WIPO and other IOs on behalf of staff members, whistleblowers and injured

third parties
96. Rex Fleming, Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired

President Global Aerospace
97. Jim Folcik, Geosciences Manager Extraction Oil & Gas
98. James Forensky B.S.E.E., M.D. with background in Physics, Engineering and Medicine 99. Dr. Geoffrey Q. Fox, Retired neuroscientist, PhD in Anatomy and Physiology from

the University of California, Berkeley in 1973, post doctorate fellowship in the Department of Neuroscience at Albert Einstein College of Medicine, Wissenschaft Assistant in the Department of Neurochemistry at the Max Planck Institut fűr biophysikalische Chemie in Göttingen Germany, 1975

100. Dr. Neil Frank, Lifetime of Experience in Research and Forecasting in Tropical Meteorology, Former Director National Hurricane Center

101. Patrick Frank PhD, SLAC National Accelerator Laboratory, Stanford University
102. Robert S. (Steve) Friberg, Trend Resources LLC, Resources Exploration Geologist with

+55 years of experience in the geological sciences field
103. Gordon J. Fulks, Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global

Warming Realists
104. S. Fuller Hunt, Biology Teacher at Preparatory High School of Mathematics, Science,

Technology and Careers, Calabash, North Carolina
105. Lynn Warren Funk, accelerator physicist, climate realist
106. Terry Gannon, Physicist, Retired Semiconductor Executive
107. Dr. Philip Garrou PhD Chemistry 1974 Indiama Univ. Retired Director of Technology at

Dow Chemical's electronics division. Serves DARPA and the DoD as a microelectronics

subject matter expert (SME)
108. Louis Genevie PhD, Epidemiologist, www.LitStrat.com
109. Nicholas De Gennaro PhD, PE, Coastal Engineer, Southport North Carolina
110. Prof. Lee C. Gerhard PhD in Geology, Retired Getty Professor of Geological Engineering

from the Colorado School of Mines and Retired Director and State Geologist of the

Kansas Geological Survey
111. Ulrich H. Gerlach, Professor of Mathematics, Ohio State University
112. Ivar Giaever, Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus

Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied

Biophysics Inc., Fellow of the American Physical Society; Honorary WCD Ambassador 113. Thomas A. Gilliam PhD, Professor of Accounting, Retired
114. Alan Glabe PhD Organic Chemistry, University of California, Retired
115. Dr. William Glassco, PhD in Medicinal Chemistry, former researcher, currently

Instructor
116. Curtis Fred Goddard, Retired Geologist
117. Dr. Indur M. Goklany, Science policy advisor in the United States Department of

the Interior, Helped develop the work plan for the IPCC's First, Second and Fourth Assessment Reports, and served as expert reviewer for several IPCC reports,

Leaderof the U.S. delegation to, and Executive Secretary of the IPCC Resource Use and

Management Subgroup (1988-90)
118. Dr. J.D. Gold, lifetime experience in Clinical Psychology; worked in the frontlines of the

war against the madness of terrifying people
119. Leo Goldstein, MSc in Mathematics, lifetime experience in computer software,

computer networks and cyber security. He is also a successful author and start-up

founder

120. Derek Gordon, CEO HTS Engineering
121. Timothy W. Gordon, Retired USAF/USN Veteran, Independent Researcher
122. Steve Goreham, Executive Director, Climate Science Coalition of America
123. Laurence I. Gould, Professor of Physics, University of Hartford, Past Chair, New

England Section of the American Physical Society
124. Jim Granato, Dean of the Hobby School of Public Affairs, University of Houston,

lifetime career in research methodology
125. Charles F. Gritzner PhD, Professor Emeritus of Geography, author of the book

"Changing Climates" (2010)
126. Mike Gruntman, Professor of Astronautics, Space Physics and Space Technology, Space

and Rocket History University of Southern California
127. Thomas Gyorog, P.E., Project Manager and Designer of transportation infrastructure

projects
128. Kenneth Haapala, President of the Science and Environmental Policy Project (SEPP),

compiler of The Week That Was newsletter, and contributor to the NPCC reports. He is an energy and economics modeler and past president of the oldest science society of Washington

129. Stephen Hallin, Retired from Atmospheric Science (BA 81 MS 91)
130. Dale B. Halling, BSEE, MS Physics, JD, Retire Patent Attorney
131. Lyle W. Hancock, Professional Mathematician

132. Kip Hansen, Independent Science Research Journalist

133. Dr. William Happer, Professor Emeritus in the Department of Physics at Princeton University

134. Brett T. Harding, Materials Scientist in Sustainable Technology, over 20 granted patents in nanoceramics, OLED, photocatalyst, optical devices, and related materials

135. Steven Harford PhD chemistry and lifetime career in renewable energy and aerospace research

136. Richard Harris PhD atmospheric physics and chemistry as applied to radiation transport modeling, laser propagation, high power microwave propagation

137. Korbi Hart, Marketing Director Inland Crude Purchasing
138. Peter J. Hatgelakas, Masters in Petroleum Engineering, petroleum geologist,

geophysicist, and petroleum engineer at Hatgelakas Consulting

139. Bryan Haycock PhD, Adjunct Faculty at a University in the state of Utah
140. Howard C. Hayden, Emeritus Professor of Physics, University of Connecticut
141. David Heald, Retired Electrical Engineer
142. Donald R. Healy, BS Degree in Forest Management from Oregon State University,

Participated in Anthony Watts' first Surface Station Project
143. Dennis E. Hedke, Lifetime Career in Earth Sciences, Consulting Geophysicist; in 2018

Hedke was co-presenter of the testimony on Sea Level Rise before the Committee on

Environmental protection of the New York City Council

144. Tony Heller, Geologist, electrical engineer, climate communicator at realclimatescience.com 1500th signee

145. Edward G. Helmig, Environmental Engineering Professional in the field of Industrial Water Treatment and Environmental Protection

146. Oliver Hemmers, Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas

147. James D. Henry, Consulting Geologist, BS Geology, U Texas Austin, 1970, founder of Old Aulacogen, L.P. in 1991

148. Glenn C. Hillam, Big Data Architect/Scientist
149. Gary L. Hoe P.E., Retired Colonel USAF, Technical Director of several Nuclear Weapon

Effects Tests at the Nevada Test Site, Member Scientists for Accurate Radiation

Information (SARI)

150. Jim Hollingworth, Social Scientist, Book: 'Climate Change: A Convenient Truth'
151. Dr. Gary M. Hoover, Geophysicist, Lifetime Experience in the GeoEnergy Industry,

Retired Member Board of Directors Geo-Service Company

152. Christopher Paul Horger, lifetime experience in optical network design
153. Walter Horsting, leads national and international teams in high-profile projects,

including Clean Energy, Entertainment Venues, Governmental Headquarters, Performance Centers, Resorts, Stadia, and Theme Parks. He is advocate of 4th generation Molten Salt Reactors

154. Captain Thomas C. Houghton USNR (Rtd), Qualfied Nuclear Engineering Officer; Sr. Director, Reactor Programs, Nuclear Energy Institute

155. J. Stephen Huebner PhD, Retired Research Geologist, U.S. Geological Survey
156. Edward Huff PhD, Retired NASA Senior Scientist
157. Kanzan Inoue, MS & PhD in Physics, President & Physicist of Exponential Future LLC 158. Jim Janota, Developing and improving petroleum based Chemicals, Plastics and

applications
159. Laurence N. Johnson, Lt Col, USAF (Ret), MS in meteorology, MSE in aerospace

engineering
160. Dr. Thomas J. Karr, PhD physicist, Retired Principal Director in the U. S. Office of the

Undersecretary of Defense for Research & Engineering
161. James Kelly PhD Physics, data science executive
162. Kathryn E. Kelly, President Delta Toxicology
163. Kerry Kelly, Geology degree. Energy and Environment Professional
164. Michael L. Kelly, US Navy, BS, Tool Design Engineer (retired)
165. Hugh Kendrick PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor

Research, US Dept. of Energy, Fellow American Physical Society
166. Kevin T. Kilty, Adjunct Prof. Mechanical Engineering at University of Wyoming 167. Fred Kinsley, Retired Geologist (MSc)
168. Kevin Kirchman, Editor of the Climate Science Journal, more than a decade in

renewable energy engineering
169. Floyd Lee Knapp BSc, Portland State University, 300 level Geography and Climatology 170. Stephen C. Knowles, Marine Scientist and Geologist, Beacon, New York
171. Kenneth D. Kok, retired Nuclear Engineer, ASME Fellow, Past Chair of the ASME

Nuclear Engineering Division and the ASME Energy Committee
172. Alex Kozinski, Retired Judge on the US Court of Appeals
173. Wayne P. Kraus, Member American Institute of Chemical Engineers (AIChE)
174. Kirk Laird, retired. Oceanographer and Meteorologist (US Navy), Geologist with US

Bureau of Land Management
175. Prof. Donald Langmuir PhD in Geological Sciences from Harvard University, Emeritus

Professor of Chemistry and Geochemistry at the Colorado School of Mines, served on and chaired multiple committees related to water quality, and nuclear waste disposal; held also a US Presidential appointment to the US Nuclear WasteTechnical Review Board

176. David R. Legates PhD, Retired Professor of Climatology in the Department of Geography and Spatial Sciences at the University of Delaware, Cornwall Alliance for the Stewardship of Creation

177. Jay Lehr † PhD, Senior Policy Analyst for the International Climate Science Coalition, Former Science Director of the Heartland Institute

178. David P. Lentini, Chemist and Patent Attorney, New Hampshire
179. Dr. David H. Lester, PhD in Chemical Engineering, Advisor to allaboutenergy.net 180. James M. Leverentz, Instructor UCI, Manager, California
181. Ulf Lindqwister, PhD theoretical particle physics, Princeton University, Business

executive with 30+ years of industry experience
182. Howard R. Lowe, Prof. Eng., Geologist
183. Dean Lusby, IT professional, business owner, Pennsylvania
184. Jeffrey Mahn, Retired Nuclear Engineer Sandia National Laboratories (New Mexico),

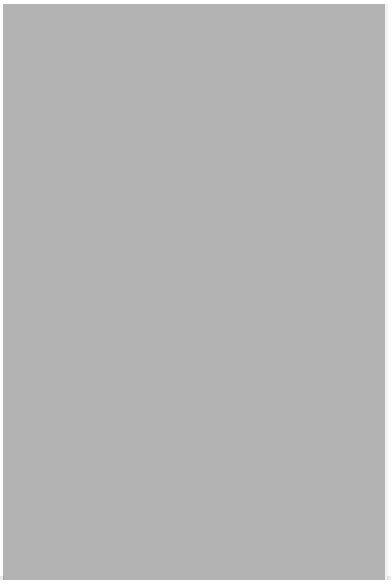
Member Scientists for Accurate Radiation Information (SARI), Member Nuclear

Society (ANS)
185. Matt Malkan PhD, Distinguished Professor of Physics and Astronomy, UCLA
186. Wally Manheimer, Retired from the US Naval Research Lab and life fellow of APS and

IEEE
187. Prof. Paul Manner MD FRCSC, Joint Replacement/Hip and Knee Arthritis, Department

of Orthopaedics and Sports Medicine, University of Washington
188. James A. Marsh, Emeritus Professor of Immunology, Cornell University, Dept. of

Microbiology and Immunology



189. David Martinovich, General Science Teacher, grades K-12, United States, China, and Belize

190. John Mauer PhD in Atomic and Molecular Physics, 20 years experience as a physicist, currently business owner in statisti cal analysis and software

191. Kirk Maxey, BS Organic Chemistry, MD, President and Founder of Cayman Chemical Inc

192. Andy May, Writer and Retired Petrophysicist
193. Gene McCall, Consultant to the Defense Science Board, Former Consultant to the

Department of Energy on Issues related to Inertial Fusion, Former Member and Chairman of the USAF SAB, Former Member of the Senior Review Group to the Defense Airborne, Airborne Reconnaissance Office (DARO) and Former Chairman of the Technology Assistance panel fir DARO

194. William McCann PhD Seismology, lifetime career in Earthquake Hazard modeling and analysis

195. Dr. Neil J. McCarthy, Financial Consultant at N J Mc Carthy & Assoc, PhD in Organic Chemistry Cornell University

196. Craig McCluskey PhD, Physics
197. Richard McFarland, Retired NASA Physicist
198. Sean McGrew, Analytical Chemist, lifetime career in Chromatography/Mass

Spectrometry, applications to semi-volatile organic compounds in the environment 199. Edward P. McMahon PhD in Systems Science, has been involved with atmospheric

physics at General Research
200. Mark Meier PhD, Professor of Physics, University of Houston
201. Samuel Melfi, Emeritus Professor of Physics, UMBC, Retired NASA Scientist
202. Kenneth Melvin MD, Retired Professor of Medicine, Portland, Oregon
203. Dr. Daniel M. Merfeld, systems engineer (BSME U Wisconsin-Madison; MSE Princeton;

PhD MIT), neuroscientist/neuroengineer by vocation, former Professor at the

Harvard Medical School, Professor at the Ohio State University
204. Dr. Peter B. Merkle, Associate Professor in the School of Engineering at Benedictine College, educator in the area of environmental science and engineering, previously

served in the U.S. government in an advisory role with respect to modeling and

simulation of catastrophic events
205. Patrick J. Michaels †, Competitive Enterprise Institute, Washington DC 206. Michelle Michot Foss PhD, fellow in energy, minerals and materials at Rice

University's Baker Institute
207. Steven Milloy, MHS, JD, LLM, Publisher
208. Ference M. Miskolczi, Retired NASA/AS&M Senior Scientist, Foreign Associate

Member of the Hungarian Academy of Sciences
209. Michael J. Mitchell, Mechanical Engineer
210. Guy K. Mitchell Jr., graduate mechanical engineer and physicist with extensive

research in the field of anthropogenic global warming
211. Brian Moody, Former GET Specialist for SMS Equipment in Ft McMurray
212. James Moore, Commercial Fisherman, President Alaska Trawlers Association,

Executive Committee Northern Southeast Regional Aquaculture Association, Board

member Amstrong Keta Inc.
213. James R. Morris, Geophysical Exploration Oil & Natural Gas
214. Thomas L. Moser, Retired NASA Senior Executive - Program Manager of the Space

Station and Space Shuttle, Chief Engineer at NASA Johnson Space Center, Fellow of the AIAA, Founder of the “Right Climate Stuff”, a group of former NASA Engineers & Scientists

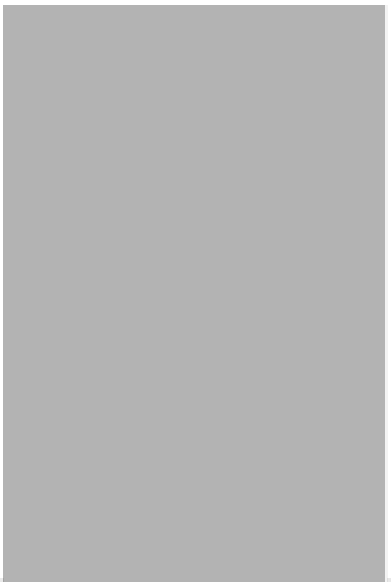
215. David R. Motes, Chemical Engineer, lifelong experience in the geo-energy industry 216. James F. Mundy, Retired Meteorologist
217. Daniel W. Nebert, Professor Emeritus, Department of Environmental Medicine and

Center for Environmental Genetics, University of Cincinnati
218. Prof. Eric L. Nelson PhD, Assistant Clinical Professor, Department of Public Health

Sciences, University of California
219. Danny L. Newton, Retired from Federal Aviation Administration (FAA), Experience in

Working with NOAA with respect to Experimental Weather Data Collection
220. Richard Nicholson, MD University Of South Alabama 1988, Family Medicine
221. Ned Nikolov PhD, Physical Scientist at the USFS Rocky Mountain Research Station in

Fort Collins CO, Managing a Fire-Weather Intelligence Project 222. Paul Noel, Research Scientist (retired)



223. Thomas O’Connor, Member American Association of Petroleum Geologists, Washington

224. Kenton Oma, Retired PE Chemical Engineer, Environmental Engineering, Environmental Consultant, R&D at DOE Nuclear Facility

225. Jane M. Orient, President of Doctors for Disaster Preparedness
226. Tench C. Page, MSc & BSc in Geology including study of causes and effects of earth’s

climatic history
227. Charlie Pappis, retired Semiconductor Industry Executive
228. Trueman D. Parish, Retired Director of Engineering Research Eastman Chemical

Company
229. Arvid Pasto PhD, Ceramics, Retired from the Oak Ridge National Laboratory, TN 230. Chad M. Paton PhD, Associate Professor at University of Georgia
231. Bill Pekny, MS Physics, Retired atmospheric physicist and soldier scientist,

specializing in battlefield atmospherics. Former U.S. Navy Meteorologist and Hurricane Hunter during “Project Stormfury-1969.” Author of the book: A Tale of Two Climates—One Real, One Imaginary

232. Charles W. Pennington, Senior Vice President of Engineering NAC International (Retired), Secretary, XLNT Foundation, Board of Directors

233. Jeffrey S. Philbin, Retired Nuclear Engineer Sandia National Laboratories (New Mexico), Independent Consultant in Nuclear Facility Design and Safety Analysis, Nuclear Criticality Safety and Weapon Response

234. Dr. Robert B. Phillips, retired from radio astrophysics, specialised in calibration and validation of orbital IR and visible sensors (GOESS, STSS-1 and -2)

235. James Richard Poirier, BS degree in Meteorology, Lifetime Career in Atmospheric Science

236. James M. Policelli, Registered Professional Engineer
237. Herman A. Pope, Retired Aerospace Engineer NASA-JSC
238. Willem Post, Independent Researcher regarding Energy and Environment
239. Darrell Potter, Retired Geologist/Environmental Hydrogeologist
240. Dr. William H. Pound PhD Major in Industrial Engineering with Minor in Materials

Science, lifetime experience in the manufacturing industry with focus on technical,

engineering, environmental, and quality assurance
241. Dr. Victor Privalsky PhD, ScD in physics and mathematics, UT Oceanographer and

specialised in random processes, retired from Space Dynamics Laboratory, Logan 242. Kenneth L. Purdy, Management Consultant, Retired Naval Officer in Operational

Intelligence
243. Brian D. Ray PhD in science education from Oregon State University, Salem
244. Dr. George Rebane, Scientist with degrees from UCLA in Physics (BS) and Engineering

(MSE and PhD), lectured at UCLA and California State University as an Adjunct

Professor
245. Edward A. Reid, lifetime experience in the US energy industry in technical research

and development, market development, marketing and consulting
246. Fred A Reitman, career as petrochemical toxicologist, retired
247. Forrest J. Remick, Commissioner (Retired), US Nuclear Regulatory Commission 248. David K. Rogers, PE, CEG MS, Geological Engineering, Member of the Boards of

Consultants for the Federal Energy Regulatory Commission
249. Dr. Jennifer Runquist PhD from Northwestern Unv, Evanston IL related to

photosynthesis
250. Marius Russo, IT expert
251. James H. Rust, Emeritus Professor of Nuclear Engineering, Georgia Institute of

Technology
252. Charles L. Sanders, Retired Radiobiologist, Author of Radiobiology and Radiation

Hormesis: New Evidence and Its Implications for Medicine and Society (Springer) 253. Rick Sanders M.A., Scientists for Accuracy in Radiation Information (SARI), Associate

Editor, 21st Century Science and Technology Magazine
254. Kent Satterlee, Executive Director at Gulf Offshore Research Institute (GORI)
255. Dana H. Saylor Sr., a lifelong agriculturalist, retired, article “Living a lifetime of climate

change”
256. Jesse Schilling, Certified Management Accountant
257. Mike Schimmelpfennig, Degreed Mining Engineer with more than 40 years of

258. Brian Schmidt, Co-Founder and Chief Visionary Officer of Primary Ocean Aquaculture division and Primary Bio Agriculture - Agriculture division

259. Harold Grant Scoggins, retired IT professional
260. Edwin T. Sewall, Retired BS Electrical Engineering, Southern Methodist University

1960 Dallas Texas
261. Mark W. Sellers, PhD Systems Science, Modeling and Analysis of Complex Systems 262. John A. Shanahan, Civil Engineer with career in Nuclear Power, Public Education

about Fossil Fuels (including question of man-made Global Warming) and Nuclear

Power through website: allaboutenergy.net
263. Roscoe M. Shaw, meteorologist and portfolio manager
264. Dr. Thomas P. Sheahen, PhD in Physics at MIT, Chairman, Science & Environmental

Policy Project, involved in energy-related research for 45 years
265. Dr. Roger Sheley, Ecologist, USDA-Agricultural Research Service; Editor-in-Chief of the

international journal-Rangeland Ecology and Management
266. John D. Sheppard MD, MMSc, FACS, Professor of Ophthalmology, Microbiology &

Immunology, Eastern Virginia Medical School
267. John Shewchuk, Meteorologist (CCM) and Atmospheric Researcher
268. Stephen W. Shipman, Institutional Investor
269. Ryan Shrout, Environmental Attorney with a Masters of Law in Environmental Law

practicing in the air emissions field
270. Dr. Matthew Eric Shultz, University of Delaware, Dept. of Physics & Astronomy,

specialised in Stellar Astrophysics, Annie Jump Cannon Fellow

271. David Siegel, author, entrepreneur, critical thinker, communicator (1000th signee)

272. Elliot Smith, airline pilot, climate realist, 30+ years of studying AGW data
273. Robert J. Smith, Bachelor of Physics, Aircraft test and evaluation engineer
274. Robert P. Smith PhD, P.E., Environmental Scientist and Professional Engineer' 275. Professor William H. Smith, Professor of Earth & Planetary Sciences; Astronomer

and Planetary & Atmospheric Scientist; most recently involved in the Analysis of the

Earth's Climate and Renewable Energy Systems
276. Willie Soon, Independent Scientist
277. Prof. George Sowers PhD, Space Resources, Colorado School of Mines
278. Prof. Rick Bernard Spielman, Senior Scientist & Professor of Physics, University of

Rochester, Laboratory for Laser Energetics
279. Robert M. St. Louis MSc in geology, owner of Mine Water Consulting LLC
280. Kirk Douglas Stahnke, MS Educ. Prof of Design Tech (Retired), Independent Climate

Researcher
281. Walter Starck PhD, Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to

The Heartland Institute
282. Jess L. Stark, Founder and CEO of Stark Industries, Houston, Texas
283. Jim Steele, Emeritus Director Sierra Nevada Field Campus, San Francisco State

University
284. Phil Stegemoeller, Professional Forester, Partnership with the Quinault Indian Nation,

a BS in forest management at the University of Minnesota, 1979
285. Ronald Stein, Professional Engineer
286. Kenneth S. Stevens PhD, Professor, University of Utah, Electrical and Computer

Engineering Dept
287. Brent K. Stewart PhD, Professor Emeritus, Radiology, University of Washington School

of Medicine
288. Gerald M. Sulzer, MS Chemical Engineer, Retired Director of Technology, Albemarle

Corporation
289. Soames Summerhays, Marine Biologist, Film Maker
290. Dr. Daniel P. Taggart PhD in Experimental Plasma Physics, life time career in

Controlled Thermonuclear Research and Radiation Protection at Los Alamos National

Laboratory
291. Tomer D. Tamarkin, Physicist, Founder and President/CEO of Energycite Inc.,

President and Chairman of ClimateCite Inc.
292. Paul Taylor, Energy Economist, Recipient Rossitor Raymond Award, Golden Colorado 293. Bradley Thomas, M.A. Air Pollution Meteorology
294. David E. Thompson, Professor Emeritus Mechanical Engineering and Computer

Science, Dean Emeritus College of Engineering, University of Idaho
295. Francis Thompson, Space Vehicle Engineer, Masters in General Relativity

296. Roane Thorpe, BSME California Polytechnic, MBA University of California, lifetime career in global energy projects

297. Gordon Tomb, Energy and climate writer, communications consultant, primary editor of Inconvenient Facts and Senior Advisor for the CO2 Coalition

298. Cecil Joe Tomlinson, Retired Boeing Senior Principle Engineer
299. Frank Trask, BS Degree in Mechanical Engineering, University of Maine
300. Kip Trout, Lecturer in Physics, The Pennsylvania State University – York Campus 301. Karl Michael Frederick Truitt, BSEE, IEEE, US Veteran, 6 US Patents, Climate Data

Researcher, Host of the The Climate Change Hoax Podcast
302. Richard Trzupek, Chemist and Air Quality Expert
303. Mark Twaalfhoven, Executive CEO Technology Companies
304. Arthur Viterito PhD, Physical Geography, Policy Adviser to the Heartland Institute 305. Dariusz Vogelsinger, Psychologist
306. Whitson G. Waldo, Scientist and Engineer with MS Chemical Engineering from

Clemson Univ, lifetime career in the semiconductor industry, owner of 13 awarded

patents
307. William B. Walters, Guggenheim Fellow, Professor of Atmospheric, Nuclear and

Environmental Chemistry, University of Maryland
308. James Wanliss, Professor of Physics, Presbyterian College
309. Steven E. Weismantel, Retired Engineer and Climate Researcher
310. Isaac William Wells, Lawyer in International Law and Foreign Affaires
311. Dr. Steven C. Wendelken, EPA, OGWDW/TSC, climate realist
312. Gary S. Westerman PhD, physical geography with specializations in climate science

and remote sensing
313. Stephen H Westing PhD, Director Medical Affairs, Regeneron Pharmaceuticals, Inc. 314. Jim Whiting, MD from McGill U, Montreal, Fellow of the American College of Radiology 315. Chuck F. Wiese, Professional Meteorologist
316. Dr Matthew Wielicki PhD in Geochemistry from UCLA, Assistant Professor of

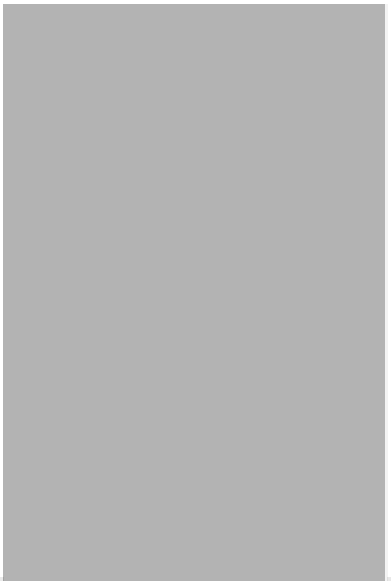
Geological Sciences at the University of Alabama
317. David Wojick, Cognitive Scientist
318. Dr. Calvin M. Wolff, Adjunct Professor University of Houston at Clear Lake, Expertise

in Energy Management
319. Gregory R. Wrightstone, Expert Reviewer IPCC, Geologist, Author, Member CO2

Coalition
320. Dan Youra, publisher Youra media, creator and editor of Carbon Tax News 321. Bob Zybach, Program Manager, Oregon Websites and Watersheds Project Inc.

SCIENTISTS AND PROFESSIONALS FROM VIETNAM

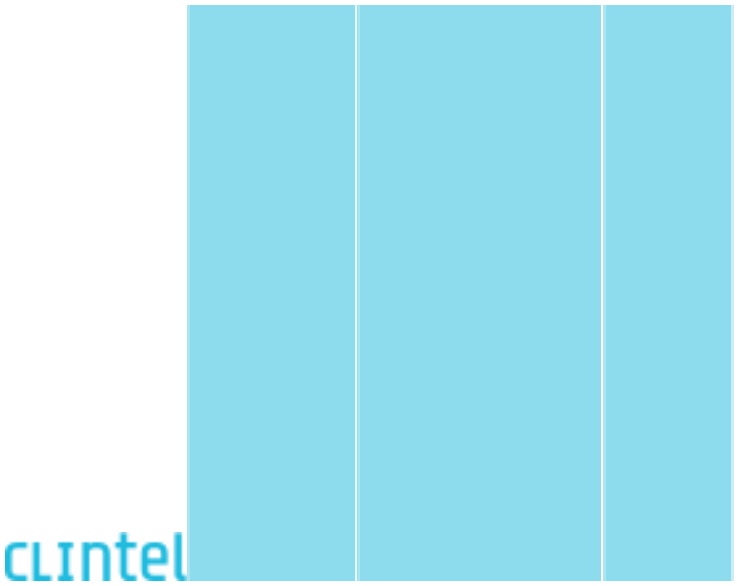
1. Dr. Thi Thuy Van Dinh, PhD in environmental law, University of Limoges, former official of the UN Secretariat, former Environment and Health Lead at Intellectual Ventures Global Good Fund, Bellevue, Washington, USA



Colofon

The World Climate Declaration was initiated in 2019 by emeritus professor Guus Berkhout, founder of the Dutch Climate Intelligence Foundation (CLINTEL).
The list of signatories is a living document that is regularly updated with new additions. The most up-to-date version can be found on www.clintel.org.

Graphic design: www.zinontwerpers.nl Lay-out: Little Shop of Graphics (www.lsog.nl)


CLintel

Nobel Winner Refutes Climate Change Narrative, Points Out Ignored Factor

Research physicist John F. Clauser poses for a photo at his home in Walnut Creek, Calif., on Oct. 4, 2022. John F. Clauser jointly won a Nobel Prize in physics with two other scientists, Alain Aspect of France, and Anton Zeilinger of Austria, for their work on quantum information science. (Justin Sullivan/Getty Images)

Nobel Prize laureate John Clauser has recently been in the spotlight for challenging prevailing climate models, which he says have ignored a key variable.

Mr. Clauser, who recently became a recipient of the 2022 Nobel Prize in Physics for his contributions to quantum mechanics, holds degrees from Caltech and Columbia University. He served in roles at Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, and the University of California, Berkeley. In 2010, he was honored with a portion of the Wolf Prize in Physics.

Recently, Mr. Clauser joined another Nobel laureate and over 1,600 professionals in signing the World Climate Declaration (WCD) organized by Climate Intelligence (CLINTEL). This declaration assertsthat there is no "climate emergency," that climate change science is not conclusive, and that the earth's history over thousands of years shows a consistently changing climate.

RELATED STORIES

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8/16/2021

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7/2/2023

The WCD highlights the limitations of current climate models, stating they overemphasize the impact of greenhouse gases like carbon dioxide (CO_2). "In addition, [climate models] ignore the fact that enriching the atmosphere with CO_2 is beneficial," the WCD reads, in part.

The declaration further notes that both natural and human activities contribute to climate change and the actual warming observed is less than as

predicted by the climate models, revealing our incomplete understanding of climate change.

In an interview with The Epoch Times's “American Thought Leaders," Mr. Clauser voiced his reservations about current climate research quality and contends that U.S. climate policies are misguided.

Clouds

Prominent climate reports, such as those by the Intergovernmental Panel on Climate Change (IPCC), National Academy of Sciences, and the Royal Society, emphasize the role of CO_2 but miss the mark on the critical role of clouds in the climate system, according to Mr. Clauser.

His curiosity about clouds began as a sailboat racer. He recalled, "I raced across the Pacific Ocean at least a dozen times. I had set up the boat with solar panels to charge the batteries. ... I had an ammeter on the power output from the solar panels, and I noticed every time we sailed under a cloud, the output from the solar panels dropped by 50 percent to half of its value that it was, and then we came out from behind the cloud and boom, their power went back up. And I thought, 'I wonder why it's just about a factor of two.'"

"This is how I became very curious as to how clouds work. When the climate issues came along, I very quickly realized that cloud cover has a profound effect on the earth's heat input that the clouds are reflecting a massive amount of light back out into space.

"And so I read all of the various IPCC reports, National Academy reports on this," he continued. "As a physicist, I'd worked at some excellent institutions— Caltech, Columbia, Cal Berkeley—where very careful science needed to be done. And reading these reports, I was appalled at how sloppy

the work was. And in particular, it was very obvious, even in the earliest reports, and all carried on through to the present, that clouds were not at all understood. ... It's just simply bad science."

Mr. Clauser highlighted insights from former President Barack Obama's science adviser, Steve Koonin. In Mr. Koonin's book, "Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters," the author noted the inconsistency of the IPCC's 40 computer models, emphasizing their inability to explain the past century's climate and suggesting that these models lack a crucial piece of physics.

Clouds pictured in Guna Yala Comarca, Panama, near the island of Carti Sugtupu in the Caribbean Sea, on Aug. 28, 2023. (Luis Acosta/AFP via Getty Images)

'The Missing Piece'

Mr. Clauser said he believes he has identified a significant oversight in prevailing climate models.

"I believe I have the missing piece of the puzzle that has been left out in virtually all of these computer programs," he stated. "And that is the effect of clouds."

While many theories of anthropogenic climate change focus primarily on the impact of human-produced CO2, Mr. Clauser argues that these models overlook the significance of cloud dynamics.

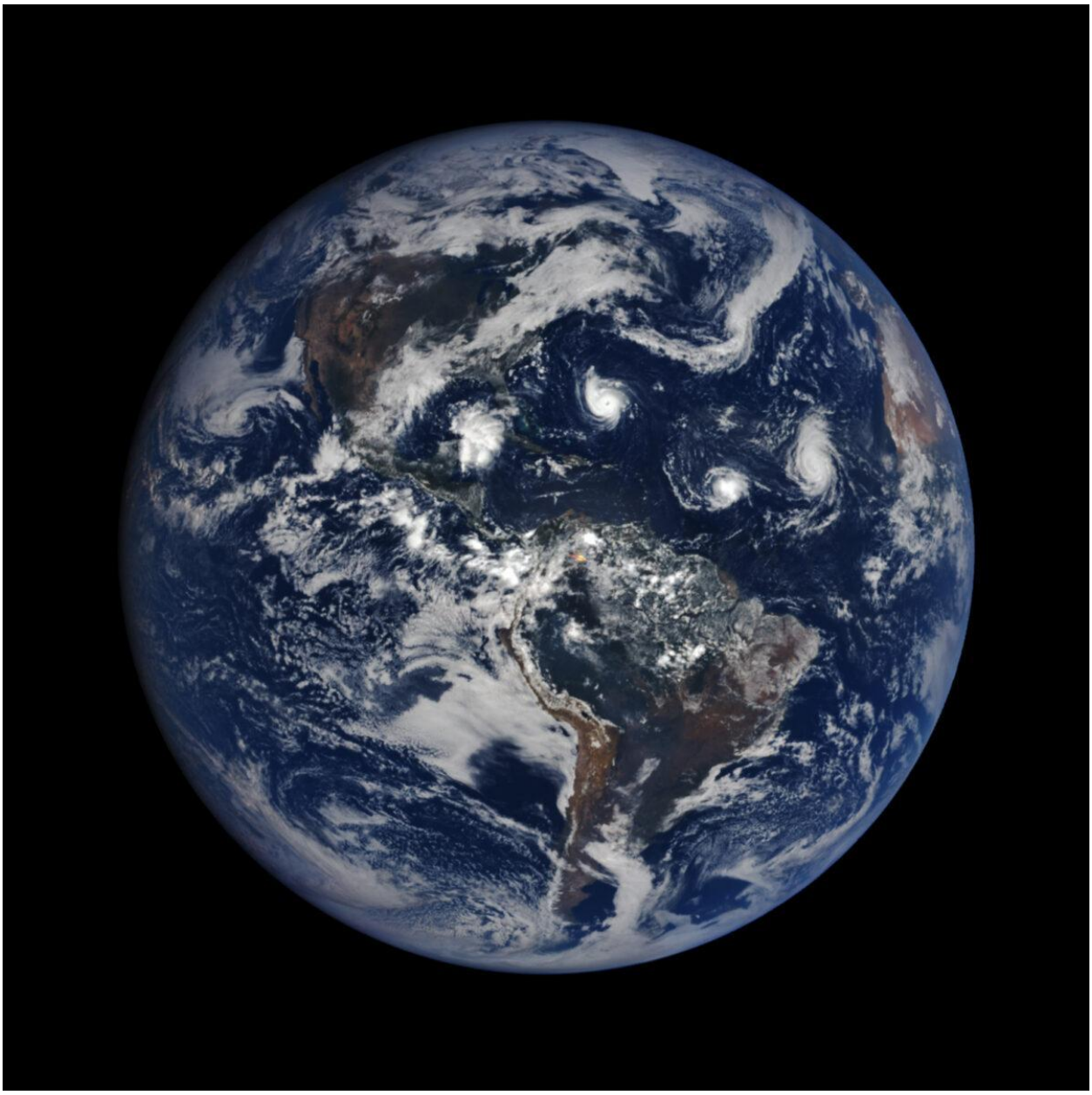
He referenced the 2003 National Academy report, which, he said, "totally admitted" its lack of understanding about clouds, and made "a whole series of mistaken statements regarding the effects of clouds."

Drawing attention to Al Gore's film, "The Inconvenient Truth," Mr. Clauser noted, "[Mr. Gore] insists on talking about a cloud-free earth ... That's a totally artificial Earth." According to Mr. Clauser, this cloudless portrayal of the earth reflects the approach taken by many in the climate science community.

"That's a totally artificial Earth. It is a totally artificial case for using a model, and this is pretty much what the IPCC and others use—a cloud free earth."

Mr. Clauser pointed out that satellite images consistently show wide variances in cloud cover, which can span anywhere from five to 95 percent of the Earth's surface.

"The cloud cover fraction fluctuates quite dramatically on daily weekly timescales. We call this weather. You can't have weather without having clouds," he said.



A photo of planet Earth from NASA’s Earth Polychromatic Imaging Camera (EPIC) on the DSCOVR satellite on Sept. 11, 2018. (NASA Earth Observatory)

Effect of Clouds Compared to CO_2

Clouds play a paramount role in regulating the Earth's temperature, serving as a "cloud-sunlight-reflectivity thermostat" that "controls the climate, controls the temperature of the earth, and stabilizes it very powerfully and

very dramatically," asserts Mr. Clauser. With two-thirds of the Earth being oceanic, the ocean becomes instrumental in cloud formation, he said. Minimal clouds result in heightened sunlight exposure to the ocean, triggering increased evaporation and subsequent cloud formation, resulting in more clouds. On the contrary, abundant clouds reduce this sunlight, thus curbing evaporation rates and cloud formation, resulting in fewer clouds, Mr. Clauser explains.

This balance acts like a natural thermostat for the earth's temperature, he said.

Mr. Clauser contends that this "thermostat" mechanism has a vastly greater influence on Earth's temperature than the effect of CO_2 or methane. He presented to The Epoch Times preliminary calculations that suggest that the impact of this cloud-reflectivity mechanism might overshadow CO_2's influence by more than 100 or even 200 times.

All clouds, irrespective of their altitude or type, appear bright white when viewed from the direction of the sun, according to Mr. Clauser. They typically reflect almost 90 percent of incoming sunlight, he said. The reflectivity fraction is referred to as albedo. The albedo has been inaccurately kept constant in various climate models, Mr. Clauser argues. He finds it baffling how these significant variations, ranging from five to 95 percent cloud cover, have been overlooked.

Mr. Clauser further underscores that clouds are integral to weather dynamics, and yet, current climate models, whose authors "admit upfront that their models cannot predict weather," have been wielded to foretell drastic climatic shifts, including "climate crisis apocalypse."

The term "climate" refers to long-term, typically 30 years or more, weather condition averages. While reliable weather forecasts are limited to about a week with standard weather prediction models, which take into account the role of clouds, Mr. Clauser points out a contradiction noted in Mr. Koonin's

book: just a 5 percent rise in cloud cover can largely counterbalance the temperature effect of doubling atmospheric CO_2. Despite such nuances, according to Mr. Clauser, the IPCC's models persistently assume constant albedo, and ignore the vast cloud cover variations.

'Very Dishonest Disinformation'

Mr. Clauser observed that the drive to address human-induced climate change is increasingly shaping political agendas and influencing the strategic direction of entire nations.

"The whole world is doing all of this. A lot of the pressure is actually coming from Europe, all of these various world conferences" he said, speculating much of this push might have its roots in Mr. Gore's "An Inconvenient Truth," which he feels has incorporated inaccurate science.

Mr. Gore's film claims that humanity is triggering a dire climate crisis that necessitates global action. But Mr. Clauser contends: "'Climate change' is actually very dishonest disinformation that has been presented by various politicians."

He pinpoints a 2013 Physics Today article (pdf) by Jane Lubchenco and Thomas Karl as pivotal in shaping the narrative, especially during the period when "global warming" was being rebranded as "climate change."

"The reason that was given was 'well, because it's really more than just warming,'" he said. The article champions a "U.S. Climate Extremes Index," claiming that anthropogenic climate change led to a significant increase in extreme weather events over the past three decades ending in 2012.

The index is supposedly backed by a century's worth of data from the National Oceanographic and Atmospheric Association (NOAA) and is said to combine various metrics including floods, hurricanes, and droughts.

Curiously, Mr. Clauser noted, the index leaves out the frequency of EF3+ tornadoes—perhaps because, as highlighted by Mr. Koonin in his book, those were on a noticeable decline. "This, in my opinion, is a rather egregious breach of honesty by the U.S. government by NOAA," Mr. Clauser said.

He used data from the article and plotted it chronologically and also in reverse. From this, Mr. Clauser observed that the two plots were virtually indistinguishable, challenging the assertion of an obvious rise in the index.

"Are you really willing to bet trillions of dollars that you know which [plot] is right? ... Is it really increasing? It is clearly not," he said.

"Not only, as I understand it, are these extreme weather events not increasing, but our ability to mitigate them has increased. So they're just not as much of an issue," Mr. Clauser said, adding later, "This worry about CO2, the worry about methane, the worry about global warming, is all a total fabrication by shocked journalists and or dishonest politicians."

On the contrary, Mr. Clauser agrees with the CO2 Coalition, which argues that CO2 is a beneficial gas. "Historically, for example, when dinosaurs roamed the earth, the CO2 levels were 10 times bigger than what we are experiencing right now," he said. "Dinosaurs couldn't have survived on this earth with this low CO2 level [today], because you don't grow trees fast enough and foliage fast enough to feed them."

"Promoting CO2 as being actually a beneficial gas, as far as I can tell, there's nothing wrong with [that]," he said. "And in particular, as I have just mentioned earlier, it is not at all significant in controlling the earth's climate."

Mr. Clauser criticized U.S. government efforts to reduce CO2 and methane as a colossal misuse of resources better allocated for humanitarian endeavors. Such initiatives, he argues, "should be stopped immediately."

"[It's] a total waste of money and time and effort. It is strangling industry," he said.

But Mr. Clauser is not holding his breath.

"My suspicion is what I am saying here will be totally ignored because people don't like being told that they've made big mistakes of this magnitude," he said.

1 | INTRODUCTION

1.1 Purpose

the norwich town Plan states the town's objectives, policies and actions for guiding ~~future~~ sustainable land use and development in the community. this plan is a guide for municipal decision-making. It also contains policies directing the deliberations of the selectboard, Planning commission, Development Review Board and other town and state boards and commissions in reviewing development proposals. This plans identifies current conditions and gathers public input as a resource for future public spending on community facilities, housing assistance and other municipal programs and services.

1.2 Authority

Under the Vermont Municipal and Regional Planning and Development Act (24 VsA chapter 117), the Planning commission has the duty to make and approve a town Plan and then recommend its adoption to the selectboard. state Law requires that a town Plan be composed of several interrelated elements that address the following areas: land use, transportation, energy, economic development, utilities and facilities, educational facilities, natural areas, and plan implementation. the Act also requires that town plans promote goals set forth by the legislature related to both *process* and *planning content*. the process goals are designed to ensure that there is coordination across all levels of government, the development of the plan involves citizens, the plan considers the consequences of growth, and the plan encourages towns to work together. the 14 planning goals help to ensure that all town plans are coordinated and reflect the legislature's vision for how land in Vermont will be developed. Finally, the Act requires that a town plan study present conditions and trends, anticipate future internal and external influences that will affect the town, and formulate policies and actions that will ensure the health of the town in the coming years. through the Act plans must also be compatible with the regional plan — two Rivers ottauquechee Regional Planning commission (tRoRc) Regional Plan. once adopted the norwich Plan can ~~remains~~ in effect for eight years.

Having a duly adopted and approved plan will allow norwich to reapply for Village center Designation and seek support from the state for future planning studies and projects.

1.3 Planning Process

Norwich first adopted a town plan in 1968. The plan has been regularly updated and re-adopted since. this plan is a major change over the previous three plans adopted in norwich. this plan includes input from an on-line survey conducted under the auspices of the selectboard in 2018, a postcard survey in 2019 and numerous workshops and meetings spanning ten months where residents discussed:

- how to respond to the climate crisis;
- how to continue protecting important natural resources;

- how to increase housing stock, including the variety and type;
- preserving rural character and vibrant village life.

the Vermont Planning and Development Act establishes the process by which town plans must be adopted, which includes public hearings by both the Planning commission and selectboard. that process has been followed in the adoption of this 2020 plan.

1.4 Using the Plan

the norwich town Plan conveys a vision for sustainable and thoughtful stewardship of rich cultural and natural resources, a commitment to address the climate crisis and fostering housing development that is appropriate in scale and responsive to community needs. the plan policies and recommendations will be implemented over time through many distinct actions, including capital improvements, land use regulation amendments, and changes to other municipal regulations and documents. the plan provides the policy platform for the integration and coordination of these decisions and actions. this plan also provides guidance on how the town's land use development
regulations should be updated and enhanced to facilitate plan implementation. Vermont state statute requires that the town's land use regulations be consistent with the adopted plan.

When using this plan for a regulatory purpose, the objectives, policies and actions found throughout must be considered in context as part of a whole rather than individual statements meant to stand alone. norwich (like any community) has competing objectives that must be

weighed carefully when applied on an individual basis. this plan is a guide for such decisions.

the plan is organized into seven subject area chapters. each chapter opens with objectives, policies and actions.

- Objectives are attainable outcomes accomplishing one or more goals (see State Planning Goals). Where possible they should be specific and quantifiable so that the community can determine when they have been met.
- Policies are principles that guide progress to achieving one or more objectives. They guide all relevant decision-making by town government, and in those circumstances where the plan is intended to influence regional or state decision-making.
- Actions are the concrete activities or programs intended to achieve (or contribute to) one or more objectives that town government will implement during the life of the plan (eight years).

this plan incorporates the state planning goals as norwich's planning goals. the objectives and policies of each chapter are formulated to further these goals.

1.5 State Planning Goals

the 2020 norwich town Plan is consistent with the 14 state planning goals listed in the Vermont Development Act as demonstrated below. to be 'consistent with a goal' requires that one or more objectives identified in this plan will result in norwich making substantial progress towards attaining the stated goal. the table below includes each goal and identifies the related objectives and policies established in this plan.

Norwich PC Land Use subcommittee meeting Aug 24 2023 6:37pm Members present: Stuart Richards, Ernie Ciccotelli, Bob Pape

Public present: Stephen Gorman, Jack Cushman

1 **Agenda**
Agenda approved 3-0

Public comment on agenda – Jack Cushman questioned the reference F cited in section 3 of the agenda, specifically the inclusion of what he described as a self-published climate change denial book by a fund manager whose other publication is an office joke book. JC brought several peer-reviewed scientific publications which he felt would be more appropriate. (Papers will be forwarded for inclusion in next meeting packet)

2 **Public Comment**
Stephen Gorman commented regarding the consideration of climate change and population

growth in planning and land use [text to be forwaded for inclusion in packet?]

3 **Review of Section 1 and 2 of Town Plan**

The subcommittee and public engaged in a discussion of the objectives and goals of the land use subcommittee. EC said sustainability should more prominently guide planning and land use. BP said the zoning and town regulations which limit affordable housing and ADU options should be reviewed. SR said the results from question 4 of the 2005 Town survey and question 6 of the 2018 town survey direct us to recognize the town's desire for no or modest growth.

Discussion then turned to what pathway would be used to move forward on the subcommittee's work. Agreement among the group members (and public present) was to produce a list of suggested edits/additions/changes to the town plan, possibly in prep for the next Town plan

In the remaining time, edits were made to Section 1 (Introduction) of the 2020 Norwich Town Plan, most related to the inclusion of sustainability in planning. [Edits will be included in the next meeting packet]

4 Review and approve minutes of 8/15/23 Minutes approved 3-0

Meeting adjourned at 8:31