

An Open Letter to the Plaintiffs in Our Childrens' Trust, Oregon, U.S.A.

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From my perspective as a New Zealander and through my interest in the Apollo Missions 1 through 11, I see that the United States of America ranks as leader nation in many affairs on planet Earth. However I believe it may sometimes take a Richard Nixon of a president or a resolution of the Supreme Court for its leadership to shine out. Nixon's battle with the steel mills of the Great Lakes in 1972 may be something of a forerunner to your own case coming forward in the Supreme Court soon. President Nixon had some courage and many millions of innocents were spared by his hand to enjoy the Niagara river and St Lawrence seaway as they were meant to be. Now you want the Court to unbatten the powder and compute the weight of the innocents. There are far more many innocents involved in your case, indeed, as the viability of society as a whole is at stake.

I understand you will allege that a faux attention to the carbon dioxide emissions is insufficiently captain-like. Considering the evidence of global surface warming and anthropogenic climate change, you will decry the administration's lack-lustre attack on Man's greenhouse gas emissions.

You may have heard something about data encryption. It is one of those subjects that go off into infinity, a subject in which there are likely to be many researcher conferences to come. Other such subjects include Zermelo-Fraenkel set theory and the adaption of radiative transfer theory to the modeling of the atmosphere. Running the line of the latter, one can supposedly predict the surface warming to have arisen from an increase in the relative density of the atmospheric greenhouse gases. However this theory at root may embody too much not-asking. The better theory may be that the cause of our problem lies in the conversion of the energy of tidal motion into electricity.

An observer of your proceedings may possibly be permitted a reference to another case of not-asking. I tell a story below, about that case, from a book called *The Checklist Manifesto*, by surgeon Atul Gawande. In a metaphor, it contains the solution formula you may need. Gawande's message is that complexity breeds ineptitude. Checklists can hold the answer to this conundrum.

When the Court gets ready to unbatten its powder in defence of the free world, we may ask, *have "the team" run through all the relevant checks?* We must remember there is no prior art in the fighting you seek to enact. All the experts are only so-to-speak experts, because of this.

In radiative transfer theory one has emission, absorption and scattering events to account for (what photons do or have happen to them, when in amongst the molecules of a gas). However the atmosphere plays host to other event classes that also influence the energy distribution in the atmosphere. There is a molecule rising class, for example. Like any mass, a molecule rising in the troposphere will have to contribute energy to gravitational potential. If a molecule later sinks like a stone, then the energy inputs and outputs are harmless to the theory of radiative transfer. However why should it sink except to contribute to the wind? The wind must have energy. It no doubt derives this from the gravitational potential of many molecules, accompanying

many corrections of small atmospheric pressure differentials (vacuums below).

In the end, the wind will go up and down and round and round; it will go every which way. However its energy origin will remain in the downdrafts that effectively turn the energy of atmospheric heat into energy of wind. After all, when a molecule in rising must contribute to gravitational potential, it will derive its contribution in becoming a colder molecule.

It has been known for awhile that temperatures above the surface have not been rising in tandem with the land surface temperatures. Considering all things, the atmosphere is probably colder than it should be. It is certainly not warm enough to bear witness to a warming-blanket theory about the way the atmosphere contributes to surface heat. In addition, with the recent publication, in *National Geographic*, of the geographical distribution of the surface warming, a further glitch now attends the theory of the greenhouse effect.

Although they are not juxtaposed, there are two pictures of the globe in the *Climate Change* issue of *National Geographic*. One shows the distribution of the greenhouse gases - more or less even across the globe - and the other shows the distribution of the surface warming. It has been considerably higher in the Northern hemisphere and the picture in *National Geographic* may remind us of a skull cap. It is a fair speculation that the magazine's reference to natural cycles as a way of explaining this uneven warming is a ducking-out and a not-asking of the hard scientific questions.

To understand the problem in converting the energy of tidal motion, one must know that the energy of any motion, including tidal motion, is proportional to a mathematical product of mass and the square of speed. At high tide and low tide when the tidal water has no motion, its speed is nil and it has no energy of motion to offer a turbine. It has to build up speed and thereby gain energy by the force of gravity. However when the energy is given up again, as the motion subsides, something very special happens. The tides have soft landings and this separates them out from things like river motions and wave motions that don't.

It transpires that the problem can be summarised in six words: *cheating the negative work of gravity*. Man first began doing it on an industrial scale in the 1960s just before the global surface temperature began its notable upward swing. Moreover the chances are excellent that if we could have hard data about the relation between the take-up with tidal turbine technology and the onset of anthropogenic climate change, we would find it rather telling.

Must we ask whether the reserve of gravitational potential is unrenewed, except by the negative work of gravity, and, in it, strictly finite and capped? Surely we must, as it plays a fundamental role. In finding that the electricity industry knows no clean energy balance accounting for the tidal turbine, you may be greatly alarmed. What has been capped for Earth must be capped similarly for other heavenly bodies and therefore allocated on the basis of a body's mass. However the body for Earth includes the tropospheric atmosphere and thus we must lose it now, in a slow decapitation of the troposphere, minute amount by minute amount, as the tidal turbines churn away, eating the allocated energy.

“Tidal decapitation” is what the picture in *National Geographic* may be saying to the Supreme Court of the United States of America when it gets down to the nitty-gritty of your application. Man is opening up a window for the Sun’s rays to come in more easily through the atmosphere.

There are few industrial scale plants that convert the energy of tidal motion and turning them off in theory is much easier than shutting down the steel mills of the Great Lakes. So will the checklist get a chance, possibly? In drawing the reader in, checklist proponent Atul Gawande offers a story about a man with a stomach wound who appeared one Halloween night at the accident and emergency department of a San Francisco hospital. Somehow the idea caught on among hospital staff that the man had received a pen-knife wound at a party. The small slit in his belly did not seem too threatening and he seemed happy to wait his turn. However he lost blood pressure quite quickly and developed a very racy pulse. His case turned into a major emergency and, in the nick of time, someone on the team asked a question. What weapon exactly had been used to make the wound?

He’d been stabbed the rifle-and-bayonet way, not the pen-knife way. Bayonet had pierced right through to his aorta, near the body rearside. His aorta had been severed but there was no direct outward sign of the massive blood loss. From the outside, his Halloween wound looked not much different from the wound of a pen-knife.

Do we really want Our Childrens’ Trust to take a leaf out of the surgeon’s book, to play the altruistic surgeon’s card, to jump into the light of understanding, to press on the anthropogenic aorta, as it were? Why not? The electricity sector may be in Mark Chapman mode. Relying on the sectoral phantom for regulation may be quite unwise.

With his connections to N.A.S.A. and his putative awareness of the Apollo One affair, Dr James Hansen may be the ideal partner to have in your litigation. He could rather relish releasing the planet from its chains. I look forward to following more of your adventure as it unravels in the news.

I have read the *Rolling Stone* article about your case and was enlightened about a legal principle according to which the government holds certain natural resources in trust. If you can establish that ‘principle applies in principle’ then there still remains a question to explicate the resources that are covered. At this juncture may I suggest for you to look into photoacoustic spectroscopy and ask how it works in gases at temperatures likely in the atmosphere. Will there be pangs of heat in the atmosphere as thermal radiation from Earth’s surface is caught by some greenhouse gases? Of course, like in the phenomenon that inspires photoacoustic spectroscopy. And so for each pang, a cause for a suffering molecule to rise and contribute energy to the gravitational potential? Of course. Whence more greenhouse gases should make the atmosphere more windy but what energy resource underpins this and is it available outside the troposphere? Surely it deserves a mention, a thought, a tribute?

The planet must obey the laws of nature and by wishful thinking we cannot change what they are. Going outside the information silo of the current crop of favoured commentator-experts is therefore one way to assure the beneficiaries of the trust. The trust beneficiaries, as in the children of the free world, deserve some assurance because academic theories that go off into infinity, like data encryption theory and

Zermelo-Fraenkel set theory, sometimes get up more steam in the tertiary sector than is warranted by their inherent worth to society. If Mankind is to be led by the Supreme Court decision in your case, then it cannot be basing its decision on what is shabby in a physical theory.

I first became aware of the problem in converting the energy of tidal motion about four and a half years ago. Since then I have had many discussions and have been given to consider many topics of relevance. There is no doubt left in my mind about the power of the argument. If the New Zealand government cannot find some gumption to promote it in the United Nations Security Council - I have been pressing them to that end but they play the hard-of-hearing card - then I must suppose that it really will take a Nixon of a U.S. president or a U.S. Supreme Court hearing to challenge the divine status of the tidal turbines. If you strongly believe that climate change is with us and has an anthropogenic cause, then you must leverage the opportunity up-and-coming.

Notes

The author is the inventor and patentee of a unique multi-level locking chamber puzzler adapted to teach a new way-in to calculus. Together with others he would like to establish the Permebasin Trust, a charitable entity for many shores and climes whereby the work-energy theorem of Physics I would come down from the loft somewhat and enter the mathematics curriculum for fifteen and sixteen-year old children. Through the work-energy theorem we can learn precisely what negative work is.

www.permebasin.org

In the negative work of gravity, energy is lost by a system separate to the gravitational system. Gravity can store this energy and supply it back later on. Cheating the negative work of gravity is only possible with inventive means. Tidal turbines provide the only way known to Man. It would not be a problem should the gravitational system have access to an unlimited supply of energy. However such surmise is, by default, in a class of wishful thinking. Although proof of unlimited supply might exist, it has not been discovered yet.

In researching the regulatory process pertaining to the tidal turbines once destined for Pouto Point, in the Kaipara Harbour of the North Island of New Zealand, the author found that concepts foreign to physics, concepts in the realm of science fiction, had been used to classify the source of the energy. This turned out to be just one in a series of woeful discoveries pointing towards the rise of a profound intellectual disorder in administrative circles. The premise has apparently been accepted by an elite group that the i-dottings and t-crossings of competent physical analysis are below them and are of trifling import. This is a loser's premise.

For references please see the author's affidavit available for download from the following webpage (see dark rectangle near bottom of page):

www.skybicycle.biz/aythesheep.html