

Dear Pat,

Thanks for taking on this project! It is a very difficult one.

Making a fusion power plant is a very challenging enterprise, as the many, as yet unsuccessful, international efforts have demonstrated. I was a graduate student at the Princeton Plasma Physics Laboratory in the 1960s, working on a small piece of a big project. Later, when it became clear that a fusion power plant was a very long time away and the funding was limited, I moved on to other scientific fields and projects. Now I am retired.

As a result of your inspiration, I have joined my local university as a "non-degree graduate student" in its Nuclear Engineering department, and I am engaged in a project to flesh out one of the more difficult areas in fusion reactor designs: the breeding of tritium in the reactor blanket. I hope that in some small way I will be able to contribute to your grand project when it is properly organized and funded. Keep up the great work!

It has been a busy week. My "advisor" at UNM is going away next week, so I wanted to get a lot done before he left. I have now gotten MCNP5 (Monte-Carlo N-Particle Transport Code, Version 5), the gold standard of reactor modeling codes, set up to do tritium breeding calculations.

That was not simple. The 1,500 page manual contained one "Example" script that was supposed to demonstrate tritium breeding, but after I tried to run it as a copy-and-paste from the manual, I found that it had at least 4 errors. The example was probably written 20 years ago, and the software changed significantly between then and now. When I figure out how to fix all the errors, I will submit a correction to the manual. Anyway, I have now successfully done a tritium breeding calculation, where I got approximately one tritium atom per 8 neutrons.

It is that low because several necessary intermediate steps simply do not work as the example is written, and I still need to figure out how to adapt the example to the real physics. Now that I know how it is done with this script, I am absolutely certain that the process needs to be audited! There are many ways to screw up this calculation!

Niels Winsor, Ph.D.
Albuquerque, New Mexico

Pat,

This is interesting stuff! I was the research physicist who presented the PLT results to the world scientific community at the Vienna IAEA Fusion Energy Conference in 1978. I had just gotten my Ph.D. in 1977, and found myself describing our results to the world's leading fusion scientists. I didn't know that President Bowen "had my back". - **Rob Goldston**.

Ronald Reagan called the Soviet Union the "Evil Empire". He was right. The evil empire was run by communists. Now we have communists running the US government (living in the White House). Evil does not want us to prosper and will bring the force of government to prevent that prosperity. The idea of fusion power and all that you have mentioned, abundant food, clean water, and unlimited energy is the engine of freedom. Freedom is anathema to their plans for a centralized government, a controlled (enslaved) population. We have to (with God's help) again defeat evil if your dream is to become reality.

Michael Arnold

Fusion also has the ability to deal with the various wastes left from nuclear fission, because the first fusion plants will almost certainly utilize deuterium-tritium fusion, boosted by using the neutron thus produced to fast-fission actinides, be they uranium, thorium, plutonium or minor transuranics.

Andrew Patton Graduate Student Instructor at University of Michigan

As an avid amateur physicist and long time advocate for fusion, I admire the imagination of someone who is not knowledgeable on this subject, having the tenacity to push for it, and keep the dream alive. I caution though, every single measure which has ever been funded through government, has ended up being abused and controlled by said government, and while we imagine the use of fusion for power, if we allow it be done by government, it will be focused on war and destruction.

We must choose, as A People, to take this idea ourselves, and fund it, entirely through private contributions, and with corporations and research facilities that will eschew any government connections, and keep this in the private market.

We have no control over our own oil, or any other aspect of our power grid which we all paid for, and depend on, because it is totally controlled by appointed bureaucrats, because we allowed government to control it, and the first thing that takes place, is a bureau is established so the control can be by appointed people, and not by those bound by election, to do the will of the People.

Power is far too important to allow government control over its production, and we need to recognize the need to keep our current power situation well endowed, not by government infusions, but by profits made, and re-invested, taking control of our power out of the hands of the energy bureau, because we will need the power we have currently available, in order to achieve this milestone which is both reasonable and close at hand, but will not come to fruition if government is allowed to control it, as we've given over to government our current power grid, allowing the politics of power, no pun intended, to control energy, rather than the actions of a free market and it's natural self sustaining means of control.

We, as "We The People" must claim this as our own, and hold on to it, and force it to be brought to fruition, because we can expect it to be fought all the way, by those who stand to lose their status as the controllers, literally, of the whole actions of the world, by their stranglehold on the drilling for oil.

John McClain
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