

Sonova Quark

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Completed somewhere around the date of April 21, 2021

My evolving thoughts on the Brilliant Light Power enigma:

I want to thank Greg Rhin, Jim & Diane, and Andy for their comments and thoughts on the on-going Brilliant Light saga. Greg was especially detailed in his analysis and the conclusions he drew. Dr. Mills' classically based theory claims that one can harness excess energy catalyzing mono-atomic hydrogen atoms. That's a single hydrogen atom, not the vastly more abundant molecular form of hydrogen known as H₂. Current physics claims this catalyzing process is flat out impossible. Such controversy makes for some interesting observations for those like me who have been watching from the peanut gallery for more than three decades. It is an extremely complicated and controversial subject. If BLP's claims and published evidence turns out to be more accurate than not it is likely to generate endless documentaries and a Nobel Prize for Dr. Mills. It would likely force a rewrite of quantum physics as it is currently understood and taught.

Some TURBO members expressed guarded optimism that Dr. Randal Mill's project might possibly generate cheap, non-polluting energy. That said, they also expressed serious doubts that the Randall's show will ever get off the ground. Greg expressed the most detailed doubt of all, going so far as to evoke the infamous "bullshit detector" suspicion.

I respect honorable skepticism coming from inquisitive skeptics. Skeptics have every reason to maintain doubts. Dr. Mills has called "wolf!" countless times over the decades claiming his start-up company has finally managed to develop a unique chemical process harnessing energy from catalyzed hydrogen and it will soon become commercialized producing cheap, abundant, non-polluting energy for the entire planet. Such expansive claims were made countless times. Alas, nothing happened.

Mill's false predictions never turned me off. I was in this saga for the long haul. I know from my own experience how long

it has taken me to produce my orbital mechanics research results. I still have to assemble my data into a visual format that can be shown to the public in a way that is hopefully educational. I actually became interested in the subject of Orbital Mechanics back in my late 20s, over 40 years ago. I'm lucky that I only have to work with software and computer languages. I have acquired a healthy respect for anyone trying to develop a new physical contraption, or a chemical process that has never been assembled before. Start-up organizations like BLP must figure out how to harness a novel chemical process in a way that doesn't cause the equipment to either explode or melt down within seconds of ignition. (Meltdowns within seconds of ignition were a serious issue.) These are some of the hurtles Dr. Mills has had to deal with for decades. While it didn't bother me that Dr. Mills failed to show countless times, it delighted skeptics who wasted no time skewering his organization. It also bothered impatient newbie admirers who were quick to give up on Mills work in order to find some other quixote quest to sink their blue sky fantasies into. Perhaps most important of all, predictions that came and went, didn't disenfranchise most of his financial backers. Over the decades private angel investors continued to finance his start-up to the tune of over \$120 million at last count. Perhaps this is a good time to bring up the question of how many lightbulbs did Eddison and his team test... and fail, before they finally stumbled across a composition that not only lit up brightly, it would last long enough to become economically viable.

All I can do is report as accurately as I can what I have observed from over three decades of lurking. My assessments includes talking to some of Dr. Mill's supporters as well one particularly ardent critic. Why do I continue to remain cautiously optimistic? I tend to focus more on demonstratable evidence. Pondering the ramifications of a viable new theory can wait. Haggling over theoretical discrepancies is kind of

like putting the cart before the horse. Consider the following evidence which may have been missed by some:

In the YouTube final DC BLP demonstration, at around 5:30 Dr. Mills shows a physical compound that contains what he states are hydrinos. See Fig 1



Fig 1: Dr. Mills holding up an example of a hydrino product, gallium oxyhydroxide, gallium ions, with oxide ions with hydroxide ions that have a crystal lattice that have trapped hydrino molecules within the structure. The hydrino molecules are hydrogen molecules with the electron are more tightly bound in a more stable chemical form. This compound has been measured with electron paramagnetic resonance spectroscopy independently at a major world leading university. The results unequivocally confirm that the hydrino exists. About fifty spectral lines are created by the absorption of specific frequencies of radio waves with the material in a very strong magnetic field. The hydrino uniquely comprises an unpaired and a paired electron in a single molecular orbital. The Interaction between these two and the transition of the orientation of the unpaired electron, parallel and antiparallel to the magnetic field, a quantized transition, produces a series of spectral lines that match identically those predicted for the hydrino theory. There's nothing known to man that has those types of signatures or energy patterns.

Later in the YouTube clip, starting around 21:36, See Fig 2, you can see an off-site demonstration of the Sun Cell prototype unit in use. The prototype was installed at the Homer Building located in Washington DC. While working the device contributed to the heating of the building.

Fig 3, 37 minutes into the Demo, shows a table measuring

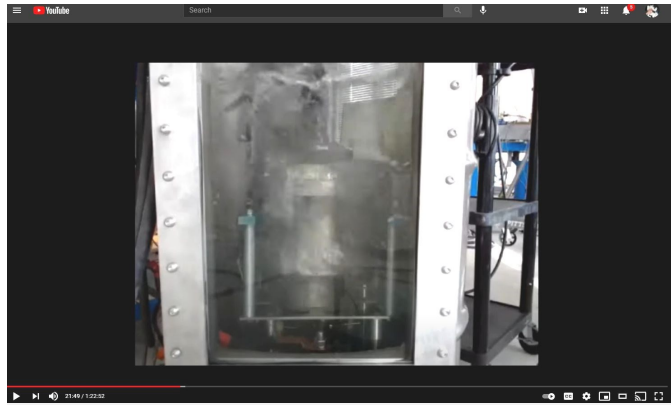


Fig 2: Off site demo of Brilliant Light Power sun cell prototype producing 100,000W of continuous steam power at the Homer building in Washington DC. This is the historical first of commercial scale Hydrino power contributing to heating of an office building in the Nation's Capital.

BLP claims: Theoretical calculations of the amount of energy one can get from the combustion of normal hydrogen and oxygen is on the order of a few watts per mole, whereas the Sun Cell reaction can go up to hundreds of thousands of watts.

Validation: Steam Loss Calorimetry Measured 93 kW of Continuous Steam Production by the SunCell® Operated in a Water Tank to Provide Water Cooling

Dr. Mark Nansteel, Ph.D. University of California, Berkeley and heat transfer expert validated 93 kW of excess power produced by a hydrino plasma reaction maintained in a SunCell® using mass balance in the production of steam. The hydrino reaction was shown to be dependent on operating temperature and activation of the gas reactants by a glow discharge plasma. (https://brilliantlightpower.com/pdf/Report_on_Water_Bath_Calorimetry_12.04.20.pdf)

Steam production was maintained over a 100-hour duration in an internal field trial demonstrating the utility of SunCell® towards the goal of a commercial heater of over hundred kilowatts to service the greater than \$8T/y thermal market.

Discharge	Gallium Temperature (°C)	Duration (s)	Input Energy (kJ)	Output Energy (kJ)	Input power (kW)	Output Power (kW)	Power Gain	Net Excess Power (kW)
Yes	196	302	10,346	16,480	34.26	54.57	1.59	20.3
Yes	177	296	9341	18,708	31.56	63.20	2.00	31.7
No	458	167	6951	16,264	41.62	97.39	2.34	55.8
Yes	425	200	7800	26,392	39.00	131.96	3.38	93.0

Fig 3

several *independently validated* Steam-Loss Calorimetry tests. University of California, Berkley, measured how much input energy was consumed producing the hydrino reaction. This, in turn, generated more output energy than what was input. All tests showed overunity, calculated as excess energy, anything over the value of 1. One test came in at 3.38.

Or

Monsters from the ID, Part 6

I want to thank Lisa, Scott & Jeanne, Tom & J. J. Carrie, and Andy for their encouragement and thoughts toward my physical & emotional well being. The last time I experienced waves of anxiety this acute was in my mid-teens. I got no professional help at that time in my life. At first, my parents thought I might be taking drugs. I wasn't. My parents didn't know what to do to help me. Getting professional help never came up as an option. The only option left to me was to do my best to hold on to my sanity. Fortunately, I managed to muddle through it all. It seemed to take months trying to get through the worst of it. I was clueless as to what was the source of my anxiety.

Much of my current anxiety tends to be experienced as emotional waves that occasionally overwhelm me at random moments of the day. This is my body reminding me of the concealed memories and emotional trauma of sexual abuse. It comes up seemingly in layers, like the peeling of a fresh onion. Another opened layer causes my eyes to sting and water up, producing lots of crying. It often feels like disembodied emotions and uncomfortable body sensations. They are interpreted as still happening to me in the present. If you're not prepared, these sensations can make no sense to the experiencer other than an added fear that you might be going crazy.

It tends to be easier to treat these issues when such trauma was caused by something that can be remembered, something like a horrific accident, or an traumatic experience on the battle front. More effort is involved when the trauma was induced early in life, when one's cognitive abilities, memories, and sense of personal boundaries have not yet been adequately developed. All I can recall is a specific block of missing-time starting at the beginning of my sexual abuse incident. As I have mentioned several times in Turbo before my experience of that abuse lasted about two seconds before I blacked out. The next memory I recalled was being placed belly down in my crib for my afternoon nap. As my consciousness returned it felt like I had waken up from delirious dream... a forgotten nightmare. My body felt weak, wasted, and exhausted. The stark transition from an unexpected explosion of sexual sensations to feeling as if my body was utterly wasted made no sense to me. Exhausted, I immediately fell asleep.

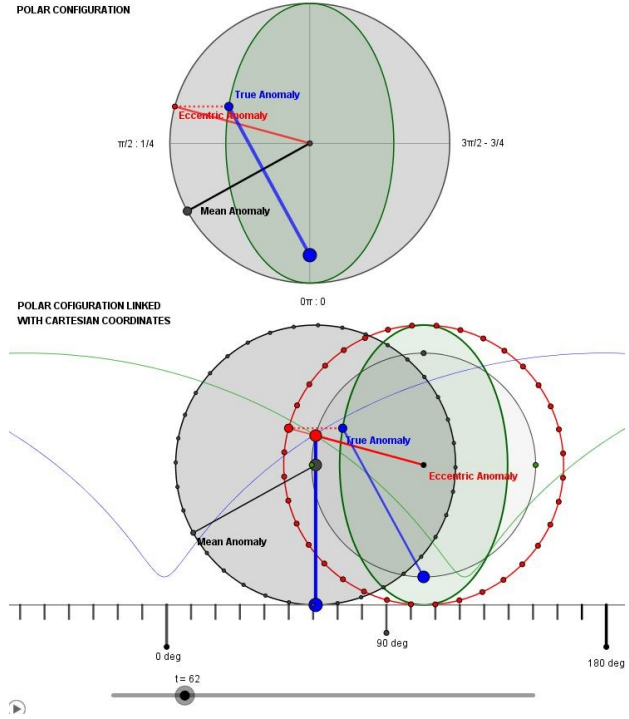
I have come to suspect that what likely happened during my "missing-time" experience was that I had become overloaded by the sudden unexpected sensations of sexual arousal at the hands of an abusing housemaid caretaker. I was utterly unprepared for what I was feeling. I panicked. I likely started crying and screaming for help, for someone to rescue me. This, in turn, caused the abuser to panic and attempt to silence me. One of the quickest ways a panicking abuser can silence a screaming hysterical child is to place their hands over the mouth and nose of their victim. Doing so also suffocates the victim. This I suspect happened because when I currently find myself crying, and if I blow my snotty nostrils into a tissue and then inhale, *and then* if a portion of the tissue accidentally flops over my mouth, obstructing my intake of air, I feel a sudden surge of panic. I fear I'm suffocating. My body feels in mortal danger. Discussing the matter with my EMDR therapist it's likely that I blacked out in terror while due to oxygen deprivation. Such experiences are too much to take in and process for a two year old child... neither for adults as well.

It is also possible the abusing housemaid stuffed me into a dark closet and shut the door to muffle my screams. Now, in the present, as I deal with these emotions and sensations I often feel intense abandonment, of being trapped in a undisclosed place of indifferent darkness where screaming for help failed to materialize any kind of rescue. I felt alone and terrified. My body felt utterly helpless and paralyzed to save myself. The experience also trashed my developing sense of personal boundaries.

Fortunately, I am making progress out of such nightmares, though not as fast as I wish. I suspect writing articles for TURBO (perhaps in more detail) is an indicator that I'm making my way past some of the monsters from the ID.



BTW, I'm starting to work on my Orbital Mechanics project again. It's been months! I just finished another detailed animation. Building on the original works of James Clerk Maxwell, Newton, and others, this particular still from an animation reveals the internal beauty and endless astral dance associated with the geometry of planetary and satellite orbits. So far, as best as I can tell, nobody has ever assembled this particular collection of geometry in the way I have done. If I eventually find out that someone has already done so, I'll be more than happy to give credit were credit is due. Then I'll ask why the hell the geometry had been obfuscated for so many centuries. *It's useful geometry that makes visually intuitive sense!* For now, I won't go into detail as to what this still image shows. I'll only say that as best as I can tell nobody that I'm aware of has managed to link (using simple to understand geometry) the *Mean Anomaly* of the planetary orbit with the *Eccentric Anomaly* of the same orbit. I don't expect anyone here to understand what the hell I just regurgitated. Hopefully, viewing the actual animation, when I finally publish it will show the relationship with crystal clarity. More on that later.



Or

Zoey and the Cat Dad.

