

“Earth” was once a “Star”
Stars and Planets are “one object” hiding in plain sight

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ABSTRACT

Stellar Metamorphosis is the premier alternative theory of star formation. A hypothesis made for the 21st century dissident thinker who suspects that astronomy's “nebular hypothesis” is grossly unsatisfactory and dated. This is an explication where the theory, discovery narrative and educational, economic and social implications of star/planet formation are presented. The process by which Jeffrey Wolynski came to his revelation that what we mistakenly call “planets” are in fact merely later developments of the stellar formation. This theory should be the main foundation of all modern star science. Star formation is planet formation; they are one process.

Part 1

It is commonly forgotten today, that “science” as we currently know it did not emerge from “science” or even from some pimple-faced angry politicized person, living in 17th century England, angrily challenging the cultural and political norms of his time, spray painting buildings, defacing monuments, violating sacred spaces of religious worship and demonizing his ancestors, social competitors and intellectual opponents. Quite the contrary. The very word “science” was coined by an Anglican theologian named William Whewell who very likely believed that understanding the natural world around him was a manly and noble task. In his day, “science” was called “Natural Philosophy” and “scientists” were seen as the interpreters of creation, who's job it was to understand and establish the natural laws of the universe.

How does this bring me from “philosophy” to “natural philosophy” to “science” and finally to “astronomy” and to the Wolynski discovery called “Stellar Metamorphosis? There are many paths by which the observer and thinker may come to this scientific theory, but principally it stems from a value of truth, and the truth present in the natural laws which govern physics, astronomy, geology, chemistry, electricity, mechanics, biological, and indeed every ingenious tool, which we as humans have learned to govern in such a way, that the more primitive and short-sighted of men, might regard as “magic” if we were to come upon them suddenly armed with natural philosophy as a weapon unforeseen. In this way the “scientist” flashes like a lightning strike from the “unscientific” desire to distinguish truth from falsity. Nor is this thunder clap unique or limited to Jeffrey Wolynski. The Wolynski hypothesis, or Stellar Metamorphosis theory, in point of fact, has a long history.

It begins far before the 21st century and goes back much further even than the Cold War era, Soviet Russian biochemist, Alexander Oparin. Oparin, while believing in the Standard Model of gravitation forming planets separate from stars, still accepted today, had a suspicion that something was wrong with this picture, and that “stars” and “planets” might be internally related by some set of rules unappreciated by our minds. In fact, it goes back all the way to the philosopher Descartes himself who envisioned the whole world as a giant turbulent vortex. Almost as if, in his mind, the whole universe, was a vortex, or “swirling” version of a “big bang” destined to “birth” at the very bottom of it's material “pool” a “planet” after a “star.” This idea, was however never developed, nor were the astronomers of Descartes time armed with the information which would allow them to draw such an astonishing conclusion. So the philosophical foundation rested untouched by scientists like an old book covered in dust.

The view currently accepted and taught, in high-schools, university's, and popular scientist articles and flame-nerd documentaries aimed at the young so-called "brights" or rather, easily conditioned "youth" being "educated" is a very simple one, though very poorly thought out, by those educated. It tells us that "stars" and "planets" exist independently of each other. "Once upon a time" there was a "big bang" and then "gravity" gathered together the elements from rotating material accretion disks in space into "rocky-planets," "gas-giant-planets" and occasionally, very rarely, a perfect "liquid-rock-gas-planets" such as our "Earth." In this view, "stars" like our "sun" have a completely separate formation and bare no connection whatsoever to the dead planets found both orbiting very near to the "sun" as a result of the gravitational attraction of its mass. Hence why the "gas giants" were further out. This theory is "outdated" because it was originally invoked to explain the formation of our own solar system in terms of "gravitation" alone, ignoring all other scientific information which might have allowed us to draw a more mature conclusion.

The strength and importance of the Suns' radiation and stellar wind, while not forgotten in this new theory, were wrongly used to account for the place of the "gas giants" and the speeds of rotation, planet to planet. The mainstream view, unfortunately ignored classical mechanics here, by not realizing that no amount of accretion disk rotation can so violate the law of the conservation of angular momentum, so as to produce spherical objects in space. That "deep space" is "cold" cannot be denied, but that the work of the radiation of the Sun, is itself enough to keep certain planets cold, and other warm, or to determine the wind speed and chemistry on all orbiting spheres is misplaced. The "planet" we stand on is itself a complex interactive mixture constantly transforming itself in powerful electro-chemical reactions over time. If we were to apply the laws of thermodynamics and mater phase transitions to our own "planet" and work backwards logically, it shouldn't be too difficult for our minds to grasp what Wolynski has been trying to say for the past three years.

Gravity by itself, cannot assemble anything, just as Frosty the snowman would not make a good automobile repairman while obeying natures laws and melting into a cool stream in summer. Our knowledge of physical laws themselves would dictate that any structure as huge and round as a planet, requires many natural forces working harmoniously within a "space" which the material could be "accreted" into. As our telescopes have discovered many solar systems and exoplanets beyond our own, the uselessness of the nebular hypothesis because clear. Many systems possess gas giants and "brown dwarves" orbiting very close to their misnamed "parent" stars. Exoplanets (as with stars) are found in such size and variety as to confuse the standard model mathematicians, leaving them scratching their compartmentalized heads, wondering how it all fits into one coherent picture.

Unknown to them, a simple looking back to things they already accepted as scientific facts in their infancy hold the clues which would open their eyes, if only they could turn and look. In effect, what Wolynski has accomplished under the noses of the greats, and without their grant money, power chair or opportunity, is to synthesis the assumed unrelated fields of geology, chemistry, meteorology, physics and spectroscopy into one coherent whole. The inability of the "old" to reconsider new ideas coming from solid reliable past science itself, is what has lost them this insight. Building on the suspicions of the American philosopher Abruzzo and old Soviet scientist Oparin, Wolynski's work takes readers from "star birth" on a path through the very phase transitions of matter, many students are taught without comprehension of purpose: the plasma state, the gas state, the liquid state and the solid state uphold perfectly the theory of Stellar Metamorphosis. Wolynski applies what he knows in one field to another, and has achieved for us a brilliant solution.

Consider the Hertzsprung-Russell diagram, which this very author was himself introduced to at the University of Toronto. Stars were organized according to luminosity and temperature in an almost perfect evolutionary sequence from one side of the chart to the other. As a mere student however, full of emotions, ego and distractions, he could not ask or consider the many confusing aspects of the this chart which screamed out at him, begging his eyes to notice. He scratched his head, to be sure, and wondered why the chart appeared to have an inconsistency of some stars being labeled more luminous though less hot (the White Dwarfs) or others less luminous though at shorter distances. (Blue and red giants.) The instinct wanted to put them all one sequence and hand the essays and reports back in, indicating that instinct correct. Unfortunately, though the instructions made clear what the expected answers were. Discussion of "why we believe what we believe" or "how we know what we know" was something you did in a philosophy class, not a science class. That was not your jurisdiction.

Part 2

People today love the word "evolution." They apply it to almost everything in life, whether or not they have a real solid process theory and demonstrative solution to back it up. People speak of assumed evolutions in everyday life, be it in fashion, social trends, narrative structures, religions, ideological rationalizations, sexual marketplace dynamics, political revolutions, currency manipulations, biological life-formations: simply everything. Ironically however, it is rarely mentioned, that few and limited are the actual evidences for most claims, and few and rare is the ability to slot all objects into a coherent sequence. Astronomy, with Wolynski's hypothesis would not have this problem. Quite the contrary. The

theory of Stellar Metamorphosis can demonstrate, in plain sight, a visual gradualist physicalist “object” oriented process, by looking straight into the night sky at every single star, exoplanet and planet. The mind boggles at how it has not occurred to them, to do this.

Wolynski on the other hand, has done exactly this. Every single piece of the puzzle, stage in the transformation, slice in the sequence is readily available for the 21st century astronomer to consider, just as easily as a child might spread and reconstruct lego blocks according to the advertised picture. Wise men are not always right, because they have forgotten the creative of children, while maintaining the religious superstitions that come with accumulated status symbols well into old age. To be sure, not everything, in either philosophy or science may be demonstrated according to a process theory, though Stellar Metamorphosis, surely meets this bar. The gradual transformation of the great plasma bubbles we call stars down into the various phase transitions of gas, and then on to liquid and rock, beautifully harmonized what we know of life on earth, with what the astronomer and the mathematician visualizes both through their telescopes and their computer models. There should be no need for them to write popular science articles where they claim to be “confused.”

The whole purpose of having a law of nature, rests on the given that nothing can violate those laws. This is why and how our household appliances work, electric grid functions, military equipment operates and manufacturing industry continues. So why are mathematicians so eager to ignore nature's laws, when they need to keep playing with models and figures? It is more logical to simply accept and return to those natural scientific laws we know, and make sure at all times, that our models and figures are based and in harmony with those laws. This brings us to the next great problem: how do we know when we have a law, wrong, and what horrendous mistakes in models, time investment and money investment, might we make, if our philosophy and understanding of natural law, turns out to be incorrect.

In the past century, a tiny number of very intelligent humans, discovered how to contrive a nuclear explosion. This discovery provided world governments with incredible power and was instrumental in dictating the terms of many geopolitical pivots and stratagems between the great powers on our planet. Nuclear weapons became as well known in the popular consciousness as drought, death, rape, disease, rain, farming, television and radio. The impact it has on how explanation process, our philosophy and understanding of the Sun, less so. Few men are so bold or so perceptive as to debate the distinction between “we can do something” and “how is that something achieved.”

The problem with Stellar Metamorphosis from the perspective of the mainstream, rests primarily with this fundamental disagreement: they believe the Sun, is a thermo-nuclear reactor, and a thermo-nuclear reactor can't go through phase transitions. This is the first reason, why they scream “crackpot” at Wolynski and feel that the argument “ends there” before it even begins. The disagreements, rests partially on the mathematical assessment of the Coulomb barrier and theory, which describes the velocities required for such a nuclear mechanism to work, and partially on a misapprehending of what light and radiation actually “mean” if it is crossing a vacuum with the end result of giving us “sun burn.” If a “star” is shining, by definition, it is releasing heat. If the “star” is releasing heat, by definition, it is engaging in an exothermic reaction. If it is undergoing an exothermic reaction, that means it cannot be undergoing “nuclear” reactions. Therefore, “the Sun” is not a nuclear engine, but an electro-chemical-magnetic engine of some kind. The sun is therefore, not a billion nuclear bombs with a solid core of even more powerful nuclear energy, but rather a completely different kind of object entirely.

In mathematical equations we love using the terms “zero” and the function of equality. (=) However, in nature, nothing is “equal” and nothing truly reaches perfect “zero” and thereby perfect motionless. Quite the contrary. The whole of nature, both in its harmony and in its chaos, both in its understood laws, and in itself mystery is in a constant state of flux. Everything is always moving. This is how we know that our electromagnets here on earth, require some kind of fuel or energy to maintain whatever action or momentum and work, we wish to undertake. Hence, a Sun, that is undergoing exothermic reactions, by evidence of its radiation crossing the immense vacuum of space towards our eyes is “changing” and is changing according to understood laws. These laws allow us to “know” what to expect with some reasonableness. If exothermic reactions are being directed in one direction that must logically mean that endothermic reactions are being made in an opposite way towards the Sun's most internal point. That endothermic reaction creates a pressurizing atmosphere in the center of the star, which it cannot do if the Sun has a core. Therefore the Sun, must begin as a hollow object: a plasma bubble in space.

Plasma physics have been talking about “stars” in ways similar to this for a long time. The reality of plasmoids in the galaxy, and the very real physics of such high energy events as the “Birkland current” (named after Christian Birkland) as being the source of our plasma bubbles streaming throughout the spiral arms of our rotating galaxy, has been the source of much debate in such circles. Indeed, the status of Quasars and Pulsars as the still under-discussed source of galactic “matter.” Such brilliant engineering minds as the Swedish, Hannes Alfvén might well have felt inspired to even greater works of thought were this Stellar Metamorphosis model the dominant paradigm in his day. Needless to say, the “missing

links” of such “exoplanets” as “Brown Dwarves” become immediately sensible to the vast majority of people, no matter how the more stubborn computer modellers might feign blindness.

Indeed, even the more media-hyped events become suddenly a logical extension of our knowledge: The speeding and irrational comets zipping back and forth through solar systems, around and even “straight through” stars like Kennedy killing bullets become something which we can understand. Such as that comet dubbed, Lovejoy which shot straight through the Sun, and return almost unharmed on the other side, amazing the scientists who pretended they didn't know what to make of it. Though more carefully observers and skeptics of the Thermo-nuclear Sun theory were not so easily surprised. Indeed, the “strange” behaviour of Comet Lovejoy, shooting through a “hollow Sun” with an interior-vacuum, being compressed upon is exactly what Plasma physics and other skeptics of the Standard Model would have predicted.

To be sure a huge part of the problem, with getting the Stellar Metamorphosis theory into the public arena rests on the fact that so few “new” concepts are actually “invented.” There are no claimed “dark matter” or “virtual particles” which require a team of highly paid experts to verify. All that is required are very old concepts, already conceded by mainstream science. Furthermore, debris disks obey the laws of popular mechanics and are not invoked as a substitute for a “creation event.” Such “creations events” are too be found in high energy plasma stream and the still largely mysterious objects we call Quasars and Pulsars. What is required, however is a willingness to reexamining more ancient and reliable sciences, such the great work done by the Frenchman, Charles-Augustin de Coulomb, on electrostatics, the discoverer of the Coulomb barrier, providing us with some much more powerful insights into the workings of the universe than any Quantum or String theorist smugly dazzling the minds of the impressionable.

Part 3

The Stellar Metamorphosis theory will in the long run, actually save people money. Consider the huge amount of expense which Dutch businessmen are prepared to expend in the RealityTV Show plan of sending people to Mars. The bravery and emotional desperation of the men, and perhaps women, involved cannot be doubted. The psychological appeal and media attention as well, is no doubt a festive event. However, the end result, will be misery, poverty and death, once the thrill has served its purpose and run its course. Mars is a dead world, not because gravitational accretion simply did not bless its surface with the correct chemical concoctions, but because those mixtures, have over many billions of years, been evaporated into space. The planet is not reasonably terraformable, nor would we get more money out than we put in, simply because the planet, has less energy there to exploit in the first place. It is a dry well, because the well was drunk dry.

At the very edge of our solar system lie two shining blue jewels in the darkness. They have been called “Neptune” and “Uranus.” The one furthest transformed in its metamorphosis is according to Wolynski, the “Georgian Star” itself, we know as Uranus. It is this “planet” though billions of years younger than a super-earth hosting dinosaurian life, which logically should be our first candidate for terraformation. The surface of the planet is incredibly hot, so hot that the planet is actually radiating energy into space, albeit on the surface level. In the same way in which it does not make any sense to raid a bank, if it only has one dollar in it, it makes much more sense to raid the bank if it has billions of dollars in it. A planet on its way to becoming a “New Earth” in our very own solar system should be known far and wide as the truth “mark” which our primitive rockets and terraforming efforts should be aimed at. People do not plant flags on graves. They plant them on new borns.

As we see, Stellar Metamorphosis has very practical applications. It is natures figurative “diamond” to the salt crystals children are taught to play with if they ever had the good fortune of having a science teacher who could make learning fun for them. It is the realization that there are no “failed stars” and that every single star in the universe has a purpose which is comprehensible to the human mind. Uranus and Neptune, are not merely “blue dwarf” balls of ice, which serve no purpose other than to baffle our mathematical modellers and confound the “pop scientists” like Neil Degraess Tyson. The shrewd marketers try to generate interest in the stars, where there is no interest in the popular culture. Meanwhile telling the truth about Star formation, and introducing young minds to this new theory, will in fact generate authentic interest in astronomy. An interest which will not require the shallow planners of our society to tell lies, but will in fact allow them to generate controversy from truth, and line their pockets with cash produced from permitting a genuine scientific debate in the public forums.

It is a grave irony that the mistaken knowledge of the “nebular hypothesis” goes back to the philosopher Laplace and that this debate may end up being potentially hundreds of years overdue in the future as well. Stellar Metamorphosis has enormous implications for engineers and would-be terraformers who would speculate about the possibility for the re-ignition of planetary cores, such as that of Mars. Carefully informing ourselves of basic chemistry and applying that knowledge to the “stars” both “fixed” (young) and “wandering” (old) as the Ancient Greek and Romans would have said.

Would it not be far wiser to apply what we know about endothermic reactions and exothermic reactions to the titanic tasks of such sci-fi topics as terraformation? The powerful electro-chemical reactions which created the molecular structures found on our planet might still give us better insights for how to establish “new homes” and fresh opportunities high in the sky’s of Uranus and Neptune, far above the radiating infernos of these two “old stars.”

All this being said, the idea that there was never any “proto-Sun” which hogged the high energy material at the beginning of our solar history may be very hard for people to let go of. Even harder than letting go of a religion or a principal in the face of harsh reality, since in this case “science” being for profit: harsh reality will appear to defend the wrong ideas for as long as possible. The idea that everything is “fixed” and already understood by the status quo is also just as hard to let go of for some, as is the idea that scientists are “self-correcting” or that “time” is a real thing independent of the physics of motion or the mysteries of mass, matter and magnetism.

While astronomy does not intrude on mainstream discussion so easily; since it does not provide the kind of ego stroking required for the hugely cut-throat and competitive media markets, one thing should be clear to the reader: knowing how we come to live on the life-supporting “Star Earth” has far-reaching implications. It does not merely reinvigorate an interest in the more classical sciences of thermodynamics, electricity and empirical validation generally. More profoundly, taking the theory of Stellar Metamorphosis into the mainstream would ensure that people really reflect on the “value” of what they are standing on. An object too powerful to produce in a laboratory, an object requiring many billion of orbits worth of “time” to produce, and a chemistry slotted and fine-tuned so perfectly to how for the existence of organisms however fleeting and doomed to death. It is a thought to give us pause at both what our own minds are capable of understanding and the huge mysteries that still exist making us feel small and absurd.

The public discovery of this scientific hypothesis may still be more distant from many readers than the most distant star, though its impact on the way scientific topics are treated will be huge. In many ways this is an important subject not only because ordering our scientific knowledge is important but because ordering our principals are likewise important to creating and maintaining a sane civilization where we understand why “water” is good for the plants and not the Gatorade fed to them in the **Idiocracy** type social-environment, which many Western states are quickly becoming. Keeping our eyes training on empirical science and dissenting individuals is a highest priority for those who value truth.

References