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"A method for employing sinusoidal oscillations of electrical bombardment on the surface of one Kerr type singularity in close proximity to a second Kerr type singularity in such a method to take advantage of the Lense-Thirring effect, to simulate the effect of two point masses on nearly radial orbits in a 2+1 dimensional anti-de Sitter space resulting in creation of circular timelike geodesics conforming to the van Stockum under the Van Den Broeck modification of the Alcubierre geometry (Van Den Broeck 1999) permitting topology change from one spacelike boundary to the other in accordance with Geroch's theorem (Geroch 1967) which results in a method for the formation of G{umlaut over ()}odel-type geodesically complete spacetime envelopes complete with closed timelike curves."

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Abstract, Method of gravity distortion and time displacement, US Patent Publication No
 20060073976 A1, retrieved from Google Patents (<a href="https://www.google.com/patents/US20060073976">https://www.google.com/patents/US20060073976</a>) on October 20, 2017 <sup>1</sup>

"Violating Laws of Man & Nature": ←I got that from a Superman movie... GGDM Patents are different from real world patents: You must have the patent before you can build it, it is assumed to be useful, and it can violate just about any scientific laws desired, because GGDM is – after all is said – a space-opera setting! Let the tom cats sing!

"As our knowledge expands what was formerly science fact frequently becomes science wrong, sometimes badly wrong. Does that mean that someday perpetual motion will be a reality? Who knows. I am not holding my breath or taking any bets, but there are a lot of highly intelligent people constantly trying to unlock the mysteries of the universe and with so many new discoveries it seems science continues to encroach upon the impossible. Just think about cloaking devices and a transporter a la Star Trek, which are already to some extent realities."

 Gene Quinn, "The Patent Law of Perpetual Motion," IP Watchdog, October 11, 2011 <sup>2</sup>[Full Quote]

<u>Surreptitious Entry</u>: One of the primary abilities of the T-Ship is its ability to enter an occupied starsystem undetected and wait hidden for the perfect opportunity to attack. Upon arrival of the T-Ship at a destination system the T-Ship must attempt a Surreptitious Entry of the system.

The Surreptitious Entry attempt is made even if the owner of the T-ship does not intend to enter surreptitiously. It is the nature of T-ships. If it is desired to reveal the presence of the T-Ship, the owner can subsequently do something that would reveal its presence in the system. As discussed *ut supra*, T-ships do not automatically resupply when upon arrival at a supporting colony (see Free Resupply, 3 Construction, p. 678, *supra* and Supporting Colony, 1 Movement, p. 840, *infra*), so are not revealed.

➤ Riding the T: The basic chance of a successful Surreptitious Entry is 50%. Ten percent is subtracted from the base chance if the T-Ship by entering the system is also exploring the system for the first time, and the base chance is increased by 20% for a 2<sup>nd</sup> Era T-Ship and by 40% for a 3<sup>rd</sup> Era T-Ship.

A separate Surreptitious Entry roll must be made for *each* T-Ship entering the system, *each time* the system is entered surreptitiously. A successful Surreptitious Entry result means that the T-Ship has entered the system without alerting those already in the system (if any), and thus others present will not be informed of the arrival of the T-Ship; failure means that the T-

Ship has been detected and its arrival must be announced to anyone with ships or colonies currently in the system.

✓ The detection rules in GGDM are very generous; in reality finding a ship (unless it is planet sized or bigger) in system space is a needle-in-a-haystack endeavor. However, we must assume detection abilities have advanced as much as the rest of technology in the GGDM universe; if we can have FTL speed, then we can have generous system space detection abilities. See also ABBA Arrival, 2 Information, p. 1340, *infra*.

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- Twilight Presence: In many cases, a ship with a 'cloaking device' can do approximately the same as a T-Ship, but never quite as well. A ship with a cloaking device *may not* Surreptitiously Enter a system, however both T-Ships and 'cloaked' ships may remain undetected in a system if they arrived before anyone else currently in the system, *or if the T-Ships were successful in a Surreptitious Entry of the system*, and are currently within their Operational Supply Limitations (OSL). T-Ships and cloaked ships that are beyond their Operational Supply Limitation and who must receive supplies from other ships or colonies may not maintain a surreptitious presence in the system if anyone else is present when they are resupplied, but may remain in the system if they are being supplied and may use Ambush Mode in combats if they are warships (cloaks could also conceivably be used for non-warships).
  - ✓ Cloaking is never as good as time shifting for avoiding detection because the ship is still there behind the cloak. It might also be assumed that cloaking doesn't work at FTL speeds (except apparently in Star Trek, see DS9 "The Die is Cast" (1995) information from Memory Alpha wiki), though GGDM does not generally provide for FTL tracking. This is intended to be a rule that must be incorporated into any Patent for a Cloaking Device.
- Trip Wire: A surreptitious presence may not be maintained if anyone attacks any Friendly or Naturalized colony (except Raid or Strike, see World In Flames, 4 Carriers & Fighters, p. 1083, *supra*), the Capital Colony, or any Colony Ships or Cargo Ships owned by the owner of the ships maintaining a surreptitious presence in the system.
  - ✓ If the attacker commenced a Colony Combat against a colony on the belief that there were no warships in the system, and there are warships surreptitiously present in the system, the Colony Combat is cancelled and automatically becomes a Ship Combat between the would-be attackers and the ships whose presence was previously hidden.
  - ✓ If a:
    - 1) Ship Combat is initiated or ongoing in a system, or
    - 2) A Colony Combat is initiated against any colony that is not described above (including non-sovereign colonies), the T-Ships and/or cloaked warships *may join* the Combat at the beginning of any Combat Round.
  - ✓ If the owner of the hidden ships was not already a participant in the ongoing Combat, the Combat Power must be activated to initiate combat as described in Those Who Stand Looking, 3 Combat, p. 973, *infra*. They may also remain out of the Combat indefinitely but may later be automatically forced to intervene as described above.

T-Ships and cloaked ships are particularly effective in combination with the Combat Alert purpose of the Combat Power activation.

Crossing the T: T-Ships or cloaked warships which are in a system surreptitiously or which enter a system surreptitiously may initiate any combat against any other known unit or colony in the system as if they were normal warships. All normal procedures are followed for the combat, however, the attackers may be considered in Ambush Mode (see 7 Combat, p. 1038, infra).

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"Atom (obsolete): The smallest mediaeval unit of time, equal to fifteen ninetyfourths of a second." – Wikipedia

<u>Time to Get Medieval</u>: Easter is a solar-lunar holiday in the Julian calendar tradition, and its drift also part of the reason for the Gregorian Calendar, introduced in 1582, the most widely used civil calendar in the world.

✓ "The atom was a unit of time referred to in medieval philosophical writings as the smallest possible division of time. The earliest known occurrence in English is in Byrhtferth's *Enchiridion* (a science text) of 1010–1012, where it was defined as 1/564 of a *momentum* (1½ minutes), and thus equal to 15/94 of a second. It was used in the *computus*, the calculation used to determine the calendar date of Easter." – Wikipedia (Easter, 2016).

"It's sort of a funny question isn't it, asking how we want to be remembered after we are gone. No one knows how they are remembered, nor does anyone ever experience it. Yet for some reason, we still ask ourselves these kinds of questions. It's a paradox really, to want something after I am dead, but to only be able to really want anything while I am alive. The question is really more about what I want to imagine while I am alive, isn't it?"

 Narrator, "Eventually, Everyone We Know Now Won't Be Known By Anyone," Pursuit of Wonder YouTube Channel, March 4, 2020 5

<u>The Insistence of Memory</u>: The ability to be elsewhere – in memories, or anticipated futures, or literary construction of places and times (and memories of those literary places, people, and times) that have never existed and never will – of suspension of disbelief – is a key element of sapience. One of the primary mental abilities of humans is to be somewhere else, somewhen else without moving – we call it dreaming, foresight, projection. This is the basis of <u>Dune</u>'s (1965) navigator guild, the ultimate form of moving without moving.

✓ Since I have observed cats in twitchy REM sleep on my lap, are they also sapient, dreaming of pouncing, chasing, fighting? Sapience then is a gradual fuzzy thing that dawned over life through evolution, through time, not a zero or one, on or off thing.

A friend of mine states that "everyone wants to be remembered." I disagree. Can anyone make a case for the statement?

Wanting to be remembered should not be confused with the fact that we will be remembered (for a short while), by virtue of our existence and causality, whether we want to be or not. If the argument is being offered that everyone wants to leave a legacy ("to be remembered"), legacies don't need names. Does anyone remember who invented bread? Democracy? The sword? No, but it is part of our culture, legacies without a name. We know the names of one millionth of one percent of the billions of Anatomically Modern Humans who have lived. Some, we know only

names from references in ancient manuscripts and not much else. But our civilization is their legacy, without names attached.

✓ Prof. Antonio Damasio (Dept. of Neuroscience, University of Southern California), "has suggested that consciousness, whether the primitive 'core consciousness' of animals or the 'extended' self-conception of humans, requiring autobiographical memory, emerges from emotions and feelings." (Jason Pontin, "The Importance of Feelings," MIT Technology Review, June 17, 2014).

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Legacy is a product of the *extended self-conception* of human consciousness and *autobiographical memory* (and perhaps sapience), it is the idea of our self beyond our self, and beyond our inevitable death. It is our attempt to leap the barrier of our own mortality. It is through existential vanity (feelings) only that we need to attach our name (which will be meaningless anyway in two generations hence) to our legacy, having our name attached to something extends an illusion of autobiographical memory beyond death. Filmmakers love to use this trick at the end of films where the hero died but his memory lives on in place names (e.g., the Gordon Memorial College and Kitchener School of Medicine in Khartoum).

✓ "Perhaps being remembered isn't that important after all if most people are not remembered for what is important." – Narrator, "Eventually, Everyone We Know Now Won't Be Known By Anyone," Pursuit of Wonder YouTube Channel, March 4, 2020.

Suppose for a moment that my name were attached to this work as the author, and some future historian developed a cockeyed theory that I am not the author of this original work, that I didn't spend a lifetime writing it, and that some sapient AI wrote it or that I channeled alien or ancient intelligences, or that my cats actually wrote it in quantum time. Does it matter, or do the concepts matter? Historians spend a lot of time arguing about trivial things and don't often stop to wonder why it matters this or that, in the age of scientific empiricism, historical accuracy and absolute chronology have become the life of history by themselves.

✓ "I may remind you that history is not a branch of literature. The facts of history, like the facts of geology or astronomy, can supply material for literary art; for manifest reasons they lend themselves to artistic representation far more readily than those of the natural sciences; but to clothe the story of human society in a literary dress is no more the part of a historian as a historian, than it is the part of an astronomer as an astronomer to present in an artistic shape the story of the stars." – J. B. Bury, "The Science of History," Selected Essays, 1930 (text available on Google Books).

My legacy doesn't need my name attached and thus I do not need to be remembered. Wouldn't it be interesting if history were taught without names? Professor Moon H. Jo, who taught my Criminology class at Lycoming College, said this to me one day; that I was good at Criminology because I focused on concepts, and not on memorizing names, dates and theories like many other students. If history were taught without names, the focus would have to be on concepts; grade school test questions such as, 'Who became Emperor of France in 1804?' would be obsolete.<sup>10</sup>

✓ We honor our ancestors and the forefathers of the branches of our knowledge for their achievements. So what. They are dead, what does it matter to them? No, these honors, like funerals for loved ones, are for the living, the now, to provide history and context and remembrance, to shield us from glimpses of the Existential Void. They also allegedly inspire youth to excel and change our world, but there we run into a

mire, because at the same moment, intelligence and education are ridiculed, and simple-mindedness, fun, recreational drugs, and ignorance are promoted instead.

However, I do admit that evolution has left us with more than a bit of personal vanity with which we have alternately struggled and indulged, leaving grave markers (some bearing *'Eram quod es, eris quod sum'* inscriptions),<sup>11</sup> statues and named buildings and streets. Additionally, being 'remembered' is also a necessity, to those who come after, in sovereign situations where legitimacy and authority depend on invoking continuity (e.g., Napoleon III of France),<sup>12</sup> to remind people who has been in charge for generations, or the spiritual authority of war heroes and philosophers, such as in modern religions and war memorials.<sup>13</sup> But we don't know those people for who they were, all information about them is bent toward what they did, not what they wanted or felt.

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✓ I might, for all I know, be related to Attila the Hun, but I would never claim it even if I did know for certain as it would be completely pointless self-puffery. There is a form of mystical genetic legacy claims that drive me nuts. I had a stepfather who claimed to be 'part Cherokee' − probably total BS, a common BS line of many men in the 1960s and 1970s − which he apparently felt gave him an edge of intimidation and mystical ability. There was in recent years an advertisement for one of the online ancestry sites where a woman is holding a large portrait of George Washington, and it proudly proclaims that she discovered that she is a descendant of George Washington through the website. So what. It makes no difference in who you are.

No, the greatest legacy is not in having your name attached or remembered; the greatest legacy is in having the next generation stand on your shoulders (to be stood upon  $\odot$ ), not ride on your shoulders (though riding on shoulders is ok while their age is still in the single digits). GGDM stands, for better or worse, on the shoulders of nameless multitudes.

- ✓ "To live for or care about being remembered is like planning your own birthday party on a day that you can't go." Narrator, "Eventually, Everyone We Know Now Won't Be Known By Anyone," Pursuit of Wonder YouTube Channel, March 4, 2020.
- ✓ Hypatia of Alexandria defeated the 'Saints' of her time who would have completely eradicated the works of a pagan female teacher, mathematician and philosopher just for being such; she hid some of her original commentaries in texts she edited and that were published in her father's name. For all of those millennia, only the concepts were important because no one thought badly of texts edited by her father (or bearing his name anyway), even though he also was also a pagan politician.

"Memory, you're talking about memories!" – Harrison Ford, Blade Runner (1982) 15

"'It's a poor sort of memory that only works backwards, the Queen remarked." – Lewis Carroll, Through the Looking Glass (1871) 16

"We all have our time machines. Some take us back, they're called memories.

Some take us forward, they're called dreams." – Jeremy Irons <sup>17</sup>

Endnotes.

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<sup>1</sup> <u>Citation</u>: If your head hasn't exploded yet just reading the abstract: <u>Continuing previous citation</u> ... "The present invention relates to the use of technical time displacement devices, which operate by the modification of gravitational fields. These drive systems do not depend on the emission of matter to create thrust to take advantage of time dilation, but rather create a change in the curvature of space-time, in accordance with general relativity. This allows travel across topologies by warping space-time, to produce a topology change from one spacelike boundary to the other in accordance with Geroch's theorem (Geroch 1967)."

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- ✓ Is this patent describing the Alcubierre warp drive?
- ✓ I assume that the Patent Office employs someone who can understand this?
- <sup>2</sup> <u>Commentary & Citation</u>: "As a result, the district court referred the device for testing by the National Bureau of Standards ('NBS'), which all things being considered was a really good idea. After all, if one is going to say that the first law of thermodynamics is incorrect it might be a good idea to actually test the device and see if the claims and paper proof really add up to a real-life illustration of the faulty nature of the first law of thermodynamics.... What does this all mean? It means that it will be exceptionally difficult to obtain a claim on an invention that purports to produce more energy than it consumes, unless of course you actually have a working prototype that will when tested produce more energy than it consumes. Judge Pauline Newman ... was the Federal Circuit Judge who wrote the opinion in *Newman v. Quigg* and as I read what she wrote I get the sense that she chose her words carefully because she would not want to go down in history as one who wrote that perpetual motion machines are impossible, only years, decades or centuries later to be proven wrong.

The reality is that science fact and science fiction are dictated based on currently accepted understandings, whether they be true or not. As impossible as something sounds, what we understand as science fact is always bounded by our understanding of our surroundings. As our knowledge expands what was formerly science fact frequently becomes science wrong, sometimes badly wrong. Does that mean that someday perpetual motion will be a reality? Who knows. I am not holding my breath or taking any bets, but there are a lot of highly intelligent people constantly trying to unlock the mysteries of the universe and with so many new discoveries it seems science continues to encroach upon the impossible. Just think about cloaking devices and a transporter a la Star Trek, which are already to some extent realities." – Gene Quinn (Patent Attorney), "The Patent Law of Perpetual Motion," October 11, 2011, IP Watchdog.

- ✓ Thus, it would appear that, unless US Patent Publication No 20060073976 A1 violated some scientific law, there could be no impossibility objection. Having an actual working prototype is thus not necessary.
- ✓ Further, as explained in another article by attorney Quinn ("Understanding the Patent Law Utility Requirement," November 7, 2015), "Thus, perpetual motion machines are not patentable because they are not useful because they cannot exist."
- ✓ The utility threshold is otherwise very low and apparently US Patent Publication No 20060073976 A1 also met that burden.
- <sup>3</sup> <u>Citation</u>: See Capital Colony and Colony Politics, 2 Order, pp. 532, 538 respectively, and, World Powers Fall, 3 Government Titles, p. 617, *supra*.
- <sup>4</sup> <u>Commentary</u>: Obviously, the Archies didn't have any cloaked or T-Ships present, see Ghost Probabilities, 2 Temporal Technology, p. 818, *supra*.
- <sup>5</sup> <u>Commentary</u>: The legacy discussion was a difficult section to frame; it went through many revisions. It is an odd recurring theme that I find material related to my writings, expressions of a like mind, after I have written them; I discovered this Point of Wonder video *after* I had already filed for a copyright on GGDM.
- <sup>6</sup> <u>Commentary</u>: One of the most extraordinary feats of recollection in modern history occurred in the Elizabeth Smart kidnapping case when her younger sister, Mary Katherine was finally, after three months, able to identify the voice she heard while feigning sleeping in their room during the kidnapping as "Emmanuel," the man who worked for a day at the house six months before the kidnapping. "Emmanuel" was Brian David Mitchell.
- <sup>7</sup> <u>Citation</u>: "...OK, let's see... I guess that I'm confused again. Am I here, or am I there? I don't know. Over there, I'm everywhere. I know that. But here is connected to over there. Is that right? But then, where is the real me after all is said and done. Oh! There is no real me. I guess that's it. I only exist inside those people aware of my existence. But what about this me that I can hear talking right here and now? It's me, isn't it?" Lain, Serial Experiments Lain, Episode 13 (1998).
- <sup>8</sup> Commentary: On the day that the country learned that Ariel Castro had committed suicide in his cell (September 4, 2013), there were many angry and confused articles. A lady columnist, whose article I cannot now locate, summarized his legacy succinctly: 'And no one anywhere, anytime, in any way, will miss him for any reason.' *Non*

*homo.* Ne hemō. And yet here we are, in a footnote to a legacies discussion, mentioning Ariel Castro. No one celebrated or mourned his death on the fifth anniversary. He probably didn't give much thought to his legacy. But he is in my memory, the memory of tens of thousands, millions, in the archive of human misery for anyone who looks.

✓ However, were Ariel Castro in the late Roman Empire, he might actually be deified, as was Commodus in 195 A.D. See discussion, Terminal Patients, 3 Disruption, p. 289, *supra*. This observation is offered, tongue-in-cheek, of course.

<sup>9</sup> <u>Commentary & Citation</u>: Steve Jackson was allegedly fired from Metagaming for taking too long to design The Fantasy Trip RPG and because the final game was too complicated. In view of my Asperger's-like obsession with and the complexity of GGDM, that is richly amusing. Obviously, I am not applying for any game designer jobs. In 2017, he reclaimed ownership of the title through a provision of copyright law that allows authors to reclaim rights to their works after 35 years.

- ✓ "And the best thing, the very best thing of all, is there's time now... there's all the time I need and all the time I want. Time, time, time. There's time enough at last." Henry Bemis, Twilight Zone, "Time Enough at Last" (November 20, 1959).
- <sup>10</sup> <u>Commentary</u>: For an amusing example regarding names and legacies, look into the historical identity controversy of the 1920s novelist known as B. Traven, whose 1927 novel, <u>The Treasure of the Sierra Madre</u>, was made into a film in 1948 starring Humphrey Bogart.
- <sup>11</sup> Commentary: Mary Ann Evans (d. 1880) is buried in a cemetery reserved for social outcasts. It was effectively, the Anglican Church saying, we hold the keys to heaven (I passed a local St. Peter's church recently whose sign in fact prominently displays images of two antique keys as if to suggest...), and if you won't conform to social pressures in your lifetime, we will have the last laugh and decide where you will be buried. It used to work apparently, but now no one is listening. Fortunately, in the time and place where I live, cemeteries are secular and commercial, very few churches are now in the cemetery business and thus, cannot decide where you will be buried or not. Mary Ann Evans, however, I suspect would be pleased by her post-mortem company, as she is buried next to George Henry Lewes (her lover), and near Karl Marx and the evolutionary biologist and political liberal Herbert Spencer (her friend). Birds of a feather are buried together, and chirp for eternity; the last laugh is only momentary.
  - ✓ There is a large cemetery up the road from my house which sign proclaims it a "Roman Catholic" cemetery internment in which I would assume is still controlled by the local Church; upon seeing the sign, I could not help but to think of a scene from Robert Heinlein's <u>Job: A Comedy of Justice</u> (1984) when the main character arrives at the heavenly gates for processing after the Rapture and is asked to which religion he belongs?
  - ✓ Graves last as long as anyone cares, as long as the civilization remembers and thinks them important, after that, they must wait for an archeologist in 10,000 years. "[Prof. Tony] Walter says that typically a grave would be visited for about 10 years and after that a spouse has died and children moved away. 'In Britain, America and in Canada, they came up with this idea of building large out-of-town cemeteries where people will be buried in perpetuity. And that's what's created the problem." − Julian Uzielli and Lara O'Brien, "What happens when cemetery space runs out?" CBC Radio, December 12, 2016.
  - ✓ "As enemies of the state they are not entitled to a burial. They will be cremated in 7 to 10 days." morgue worker, The Man in the High Castle, "The Illustrated Woman" (2015).

<sup>12</sup> Commentary: Assuming for the sake of argument that the story that Edmund Ironside, who was King of England for about eight months in 1016, was assassinated in the privy by being impaled from below or assassinated in the privy by being stabbed or shot by a crossbow (there are several versions) – *is a fabrication*, what would be the reason? Edmund had lost most of England in a hard-fought campaign (in which he was wounded in battle) against Cnut the Great of Denmark, though he still retained the crown of Wessex where his family originated. The reason for the story most likely was to *degrade the memory and lineage* of Edmund Ironside, upon whom claims of his two sons or any pretenders might depend. Cnut was determined to eliminate all remaining rivals (including the kingmaker traitor who helped his victory) even though a peace had been declared, and adding urgency to this was the agreement that if either Edmund or Cnut died, the other would be king of a reunited England and their sons would be heirs. Edmund Ironside died first, thus implicitly disinheriting his sons from the throne of England, and Cnut shipped his sons off to Scandinavia to be forgotten and where they would be no threat to him.

But, as history takes strange turns and roundabout routes, Edmund Ironside's sons went first to Kiev where they finished growing up in the court of the Grand Princess Ingegerd, daughter of the King of Sweden, then to Hungary where they fought in wars (one died there), and eventually the remaining son, Edward the Exile returned to England and died within a few days in 1057. But his son Edgar, grandson of Edmund Ironside, was king for a few days after Harold Godswinson was killed at the Battle of Hastings (1066). The family dispossessed of the crown again, Edgar

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fought in a revolt against the Norman king of England, then adventured and fought his way across Europe to Sicily then joined the First Crusade in Palestine (1096, capture of Jerusalem in 1099), while Edward the Exile's daughter, Edmund Ironside's granddaughter, Saint Margaret of Scotland, married Malcom III, King of Scotland, and became the ancestor of many Scotlish monarchs, and later all English monarchs to the present day, the line merging with the descendants of William the Conqueror through a tangled dynastic bramble.

- "On hearing that Edward [the Exile] was alive, Edward the Confessor recalled him to England in 1056 and made him his heir. Edward the Ætheling [the Exile] offered the last chance of an undisputed succession within the Saxon royal house. News of Edward's existence came at a time when the old Anglo-Saxon monarchy, restored after a long period of Danish domination, was heading for catastrophe. The Confessor, personally devout but politically weak and childless, was unable to make an effective stand against the steady advance of the powerful and ambitious sons of Godwin, Earl of Wessex. From across the Channel William, Duke of Normandy also had an eye on the succession. Edward the Exile appeared at just the right time. Approved both by the king and by the Witan, the Council of the Realm, he offered a way out of the impasse, a counter both to the Godwinsons and to William, and one with a legitimacy that could not be readily challenged." from Wikipedia article, "Edward the Exile," captured April 25, 2020.
- <sup>13</sup> <u>Citation & Commentary</u>: **Missy:** You know the key strategic weakness of the human race? The dead outnumber the living. Dr. Who, "Dark Water" (2014).
  - ✓ Since the population of the world has doubled from 3.5 billion to 7 billion in my lifetime (50 years), that is a really interesting question. A moment of thought about it spins off into definitions, starting dates, and best guesses, but since we have added 3.5 billion people in the last 50 years, the statement becomes much less probable. Of course, for every birth, there is a death... all those living now, will be dead in the blink of a galactic eye in cosmic time. But this could be an interesting ontological measuring stick for a species, obviously it is not supposed to be true of Time Lords from Gallifrey, but at what point does this become true of a species in the universe, and could this be an epochal dividing line as a species swings back and forth over that line? The universe is very old... This could be an interesting in-game measure for species.
- <sup>14</sup> Commentary: For the record, the gravesite of Attila the Hun is lost, no one knows where he was buried. We know surprisingly little about Attila the Hun, we do not know with any certainty his appearance, ethnicity, or language. Without either a body or certifiable relatives, it would be impossible to trace his genetic/familial descendants (anyone claiming to be a descendent of Attila the Hun is full of sh\*t). This is not uncommon, the physical remains, burial sites, and descendants of most famous ancients, even Biblical figures, are lost. It has been common throughout history for rulers and elites to questionably claim descent from ancient famous people (for mystical reasons), without proof and with the impossibility of ever definitively disproving the claim. Genealogies were sometimes altered to make the appearance of descent from famous ancestors.
- <sup>15</sup> <u>Citation & Commentary</u>: When I was young, we used to watch the TV show, CHiPs. I remember eagerly turning on the TV or sitting down in the living room to watch CHiPs after a day of school and play. In 2016, I located some CHiPs clips on YouTube, they were short and there were only a few. When I watched them I was appalled at how bad the show was, I couldn't believe we used to watch this and think it was great television! Sometimes the memory of things is better left to nostalgia and not disturbed.
  - ✓ Similarly, there were games I played long ago that were fun, but that feel the same way now as watching old CHiPs clips on YouTube, a few years ago, I played the Buck Rogers in the XXVth Century board game, a fun-times game from my youth which I hadn't played in nearly 20 years, and realized how bad it was; likewise, I am not eager to play again the great ancestor of GGDM, the Stellar Conquest board game, which would now be unbearably flat (and not just because of the game board). GGDM fits the gaming itch of those who have put away their youthful games and do not wish to return.
- <sup>16</sup> <u>Commentary</u>: The 1976 song, "Blinded by the Light" made famous by Manfred Mann's Earth Band is the Jabberwocky of rock n' roll.
- <sup>17</sup> <u>Citation</u>: "While most of these films make use of science fiction devices, however, travelling in time isn't merely something which happens in the domain of speculative fiction, for in a sense, memory and fantasy are always a form of interior time travel. From such a perspective, films which explore the depths of interior time, such as David Lynch's Muholland Drive (2001), or David Cronenberg's Spider (1999) can be thought of as films which use psychosis as the method to present time in the form of a shattered crystal, in which it is possible for people to encounter copies of themselves, sometimes exact and sometimes divergent, so many virtual avatars walking around within our heads." Christopher Vitale, "Collapsing the Fuzzy Wave: Rian Johnson's 'Looper' (2012), Quantum Logics, and the Structures of Time Travel Films," networkologies (blog), 2012, updated and reposted, October 31, 2014.

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