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To: Jeffrey Epstein
Subject: subjects

1. unlike machines t=at turn on when the switch is thrown. . in essece default off.=C2 biological systems are default on. they attempt to stay =n. the system of excitaiton and inhibiotn is not dissinmlar from adj=sting the speed of a car. to make it go faster. you can =ither put your foot on the gas or take it off the brake. =much of the early advances in medicine and pyschology were during th= industrial revolution, when machines were the examples. the b=dy as a machine was the way to look and try to figure out what was going o=. hydraulics. for muscle . s cranes j=its pulleys. . for psychological issues the machine =A0 and some of its terms became inbedded in the system. thinki=g like a well oiled machine. input output, , computation, memory, ,=C2

the view was that a dream state was turned on=when one fell asleep/ the equivalent of going to the movies.=C2 what was on the screen was then analyed , examied =rightened amised , it was in a dark enclosed skupp of a room. peopl= wer able to fly. etc. I think that there is another mor= biologial system explantantion. I postualte that dreams =are ALWAYS on. running 24 hours a day, one gets to exper=nce them when the screen of consciousness drops away, it is tha= conciouness sets a screen in front of the dreams. I takes energy to=keep the conciuosnes screen continuous, and opaque with respect the dreams= if concioussess screen starts to fade. we can see =ehind an start to day dream, if we are unable to craft a scree= with no holes we are fine but that takes enerngy and sleep to fill =n the holes. without sleep the holes form and dreams sta=t poking their way through. schizohrenia is a person not being=able to distinguish between dreaming and reality. he is walkin= in the street but he hears his mother . the neighborhood cat =ight speak to him. things that everyone experiecents in their d=reams the schizoid cannot tell the differnece his screen is dam=ged. the dreams behind the conciosness screen are tied t= the emotions., why am i in a bad mood , could be because I am havin= a bad dream behind my consciousness screen, a feeling of dread= , somethin happend in my dream. etc. . it turns out tha= schizoeds suffer sleep ailments. sleep deprivation caus=s hallucinations. (dreams while awake). the conbc=uousess screen is tied to our senses. run through focus filters. wit= a feedback that in some instances are hard wired, aversion , =anger, , its the acgivity behind the screen that answers the c=omplex quesiotns. the aha moment is when the dream room sends its me=sage to the conciouness room.

2 music , =A0 most animals make sounds. what does music represent. =C2 it is melody prosody, inforamtion both verticaland horizontal.=C2 chords melody. . as it is generated from the brain=can it be reversed engineered and used to probel the workings of the machi=e tha creatied it. . listeing to a flute, and its tonal =uality from the sound analysisi , a long empty tube can be pos=ualted. but thats only its structure, rythms =are a product of the player not only the structure. do german marche= provide insite into a german mind. is it organized regulaid.=C2 beats that range from 30 - 12 bpm. do afro a=ericnacs. think more like jazz. somewhat off the beat.=C2 (humor. unpredictable movements making it harder for a german to ta=kle down the field. .). why do soldiers mar=h further to music, runners run further. . A=symphonic structure is theme repetition vaitaion on the themes =conclusion. the same dictum given to public speakers. =A0 tell them what you are going to say, say it , tell them wha= you said.

3. mathematics is the search for truth. =A0 algorithms that do not change there result with the passing=of the day. . mathematics stands outside of time. the id=al of a point or line (separte from einsteins measuemrnt issues as the ac=aul measurement is much more diffcult . requiring a beggining and an= end therefore measurement lives in time space. ma=hematics is the search for truth. I postualte that Biology and=biological systems differ from mathematics beacuse it is needs deception t= survive. biological systems only make sense in time space. , =rying to stay away from what is the moment of life or death. . =C2 predator prey. biuoogical systems need free energy=in order to maintain

structure disintegrating from entropy, =A0 energy needs to be ingested in order to fight the slope down to breaking-apart and returning to dust. . getting energy, =A0 the most basic bio requirement. in bio systems however the best way to get energy is either from the sun, a limited chemical reaction or heat gradient. the energy must come from outside. =A0 the way for systems to gain energy is to eat it. the way not to die is to eat and not be eaten. . the game of eat or not be eaten is very sophisticated what is the entity . the cell . the organ=, the organism . the community on and on. hierarchical nested systems. at every level decision have to=be made , is it ok to sacrifice a few cells so that the organism can live.=C2 which cells. do they get a choice? how many=C2 when . when the organism is eaten by its predator. how does it try to protect itself. camouflage, surrounding itself in junk, mimicry, misdirection, misinformation. etc.. =quorum sensing game theory, free will, bait, ants, .

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we have come a long way in surveillance and detecting and =encoding and decoding communications between people between computers, . =A0 we can do this because we can pick out the words in text, embed it in a grammar space,

we know the language/ =A0 we need to do the same now for biology, what is the language of the cells. do they communicate with proteins, . what are they saying to each other, is the language encrypted = does each person have his own code. is it chemical or electrical or both. or physical like the shape of the protein fitting into a lock, or combination of all three. the protein fits. the electricity is fired, etc. does the brain send a message. what does medicine do.=C2 does it fool the receiver the sender. the listener. the history of telecommunications intercepts have a long history referring to alice and bob that would like to speak to each other, =C2 they encrypt their messages. so that a listener cannot damage. . why not attack the bio language the same way as= speech. have nsa work on decrypting the difference in signals from a cancer cell as opposed to a healthy one. we know that cells send out messages , am i in the right place. =A0 if they get no answer or the wrong answer they are programmed to commit suicide. when a foreigner shows up in a neighborhood that is hostile , he is surrounded. killed and moved into the trash. he can masquerade as a local. how can the other cells tell. can they ask him who won the world series. ? . maybe an equivalent. friend or foe, ? =decoding skills find it difficult to decipher if there is no repetition =A0 or action that is the result of the message. the famous example separate from hitler at the end of the message (anecdote o= true). to break a code that was received from the germans =A0 the allies planned a bomb in three cities all set to blow at the same time, they thought that the word for bank or bomb would be it= the message for the day. . or so the story goes.

money what is it . is it a mirage that disappears when you look too closely, can you have money without debt, is it an accounting system. what and whys of it is rest. was it for small communities. ? with the same currency,=C2 what is the difference between currency and money, what is the meaning of value,? cost. market. what is a derivative,=C2 futures , stocks bonds, options, convertibles. how does trust fit in, can you have money with no trust. it= each other in an institution, , what is credit, is it different than money, , social contract. reputation. economics.=C2 . currency exchange, bitcoin, zero knowledge proof. ,

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=C2 please note

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