

# The Technological Simulacra: On the Edge of Reality and Illusion

*Dr. Lawrence Terlizzese says that our addiction to technology is heading toward the opposite of the life we want.*

## What Saccharine is to Sugar, or The Technological Simulacra: On the Edge of Reality and Illusion

“Anyone wishing to save humanity today must first of all save the word.”[\[1\]](#) – Jacques Ellul

### Simulacra

Aerosmith sings a familiar tune:

*“There’s something wrong with the world today,  
I don’t know what it is,  
there’s something wrong with our eyes,  
we’re seeing things in a different way  
and God knows it ain’t [isn’t] his;  
there’s melt down in the sky. We’re living on the edge.”*[\[2\]](#)

What saccharine is to sugar, so the technological simulacra is to nature or reality—a technological replacement, purporting itself to be better than the original, more real than reality, sweeter than sugar: hypersugar.



This  
article  
without  
footnotes

*Simulacra*, (*Simulacrum*, Latin, pl., *likeness, image, to simulate*): or simulation, the term, was adapted by French social philosopher Jean Baudrillard (1929-2007) to express his critical interpretation of the technological transformation of reality into hyperreality. Baudrillard's social critique provided the premise for the movie *The Matrix* (1999). However, he was made famous for declaring that the Gulf War never happened; TV wars are not a reflection of reality but projections (recreations) of the TV medium.[\[3\]](#)

Simulacra reduces reality to its lowest point or one-dimension and then recreates reality through attributing the highest qualities to it, like snapshots from family vacation. When primitive people refuse to have their picture taken because they are afraid that the camera steals their souls, they are resisting simulacra. The camera snaps a picture and recreates the image on paper or a digital medium; it then goes to a photo album or a profile page. Video highlights amount to the same thing in moving images; from three dimensions, the camera reduces its object to soulless one-dimensional fabrication.[\[4\]](#)

Simulacra does not end with the apparent benign pleasures of family vacation and media, although media represents its most recent stage.[\[5\]](#) Simulacra includes the entire technological environment or complex, its infrastructure, which acts as a false "second nature"[\[6\]](#) superimposed over the natural world, replacing it with a hyperreal one, marvelously illustrated in the movie *Terminator 2: Judgment Day* (1991). As liquid metal conforms itself to everything it touches, it destroys the original.[\[7\]](#)

Humanity gradually replaces itself through recreation of human nature by technological enhancements, making the human race more adaptable to machine existence, ultimately for the purpose of space exploration. Transhumanists believe that through the advancements in genetic engineering, neuropharmaceuticals (experimental drugs), bionics, and

artificial intelligence it will redesign the human condition in order to achieve immortality. "Humanity+," as Transhumanists say, will usher humanity into a higher state of being, a technological stairway to heaven, "glorification," "divinization" or "ascendency" in theological terms.{8}

God made man in his own image and now mankind remakes himself in the image of his greatest creation (image), the computer. If God's perfection is represented by the number seven and man's imperfection by the number six, then the Cyborg will be a five according to the descending order of being; the creature is never equal or greater than the creator but always a little lower.{9}

Glorious Reduction!{10}

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## Hyperreality

An old tape recording commercial used to say, "Is it real or is it Memorex?" By championing the superiority of recording to live performance the commercial creates hyperreality, a reproduction of an original that appears more real than reality, a replacement for reality with a reconstructed one, purported to be better than the original.

Disneyland serves as an excellent example by creating a copy of reality remade in order to substitute for reality; it confuses reality with an illusion that appears real, "more real than real." {11} Disney anesthetizes the imagination, numbing it against reality, leaving spectators with a false or fake impression. Main Street plays off an idealized past. The technological reconstruction leads us to believe that the illusion "can give us more reality than nature can." {12}

Hyperreality reflects a media dominated society where "signs

and symbols" no longer reflect reality but are manipulated by their users to mean *whatever*. Signs recreate reality to achieve the opposite effect (metastasis){13}; for example, in Dallas I must travel west on Mockingbird Lane in order to go to East Mockingbird Lane. Or, Facebook invites social participation when no actual face to face conversation takes place.{14}

Hyperreality creates a false perception of reality, the glorification of reduction that confuses fantasy for reality, a proxy reality that imitates the lives of movie and TV characters for real life. When reel life in media becomes real life outside media we have entered the high definition, misty region—the Netherlands of concrete imagination—hyperreality!{15}

Hyperreality goes beyond escapism or simply "just entertainment." If that was all there was to it, there would be no deception or confusion, at best a trivial waste of time and money. Hyperreality is getting lost in the pleasures of escapism and confusing the fantasy world for the real one, believing that fantasy is real or even better than reality. Hyperreality results in the total inversion of society through technological sleight of hand, a cunning trick, a sorcerer's illusion transforming the world into a negative of itself, into its opposite, then calling it progress.

Hyperreality plays a trick on the mind, a self-induced hypnotism on a mass scale, duping us by our technological recreation into accepting a false reality as truth. Like Cypher from the movie *The Matrix* who chose the easy and pleasant simulated reality over the harsh conditions of the "desert of the real" in humanity's fictional war against the computer, he chose to believe a lie instead of the truth.{16}

# The Devil is a Liar

A lie plays a trick on the mind, skillfully crafted to deceive through partial omission or concealment of the truth. The lie is the devil's (devil means liar) only weapon, always made from a position of inferiority and weakness (Revelation 20:3, 8). A lie never stands on its own terms as equal to truth; it does not exist apart from twisting (recreating) truth. A lie never contradicts the truth by standing in opposition to it.

A lie is not a negative (no) or a positive (yes), but obscures one or the other. It adds by revealing what is not there—it subtracts by concealing what is there. A lie appears to be what is not and hides what it really is. “Satan disguises himself as an angel of light” (2 Corinthians 11:14).

A lie does not negate (contradict) or affirm truth. Negation (No) establishes affirmation (Yes). Biblically speaking, the no comes before the yes—the cross then the resurrection; law first, grace second. The Law is no to sin (disobedience); the Gospel is yes to faith (obedience). Truth is always a synthesis or combination between God's no in judgment on sin and His yes in grace through faith in Jesus Christ. “For the Law was given through Moses; grace and truth were realized through Jesus Christ” (John 1:17). Law without grace is legalism; grace without law is license.[{17}](#)

[www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/](http://www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/)

The devil's lie adds doubt to the promise of God; “Indeed, has God said, ‘you shall not eat from any tree of the garden?’”(Genesis 3:1 NASB) It hides the promise of certain death; “You surely will not die” (Genesis 3:4). The serpent twists knowledge into doubt by turning God's imperative, “Don't eat!” into a satanic question “Don't eat?”[{18}](#)

But it is Eve who recreates the lie in her own imagination.

“When the woman saw that the tree was good for food, and that it was a delight to the eyes, and that the tree was desirable to make one wise, she took from its fruit and ate; and she gave also to her husband with her, and he ate” (Genesis 3:6).[{19}](#)

Sight incites desire. We want what we see (temptation). Eve was tempted by “the lust of the eyes” (1 John 2:16) after seeing the fruit, then believed the false promise that it would make her wise. “She sees; she no longer hears a word to know what is good, bad or true.”[{20}](#) Eve fell victim to her own idolatrous faith in hyperreality that departed from the simple trust in God’s word.[{21}](#)

## **The Void Machine**

Media (television, cell phone, internet, telecommunications) is a void machine.[{22}](#) In the presence of a traditional social milieu, such as family, church or school, it will destroy its host, and then reconstruct it in its own hyperreal image (Simulacra). Telecommunication technology is a Trojan Horse for all traditional institutions that accept it as pivotal to their “progress,” except prison or jail.[{23}](#) The purpose of all institutions is the promotion of values or social norms, impossible through the online medium.

Media at first appears beneficial, but this technology transforms the institution and user into a glorified version of itself. The personal computer, for example, imparts values not consistent with the mission of church or school, which is to bring people together in mutual support around a common goal or belief for learning and spiritual growth (community). This is done primarily through making friends and forming meaningful relationships, quite simply by people talking to each other. Values and social norms are only as good as the people we learn them from. Values must be embodied in order to be transmitted to the next generation.[{24}](#)

Talking as the major form of personal communication is disappearing. Professor of Communications John L. Locke noted that "Intimate talking, the social call of humans, is on the endangered species list."[{25}](#) People prefer to text, or phone.[{26}](#) Regrettably, educational institutions such as high schools and universities are rapidly losing their relevance as traditional socializing agents where young people would find a potential partner through like interests or learn a worldview from a mentor. What may be gained in convenience, accessibility or data acquisition for the online student is lost in terms of the social bonds necessary for personal ownership of knowledge, discipline and character development.[{27}](#)

An electronic community is not a traditional community of persons who meet face to face, in person, in the flesh where they establish personal presence. Modern communication technologies positively destroy human presence. What philosopher Martin Heidegger called *Dasein*, "being there," (embodiment or incarnation) is absent.[{28}](#) As Woody Allen put it, "90 percent of life is showing up."[{29}](#) The presence of absence marks the use of all electronic communication technology. Ellul argued, "The simple fact that I carry a camera [cell phone] prevents me from grasping everything in an overall perception."[{30}](#) The camera like the cell phone preoccupies its users, creating distance between himself and friends. The cellphone robs the soul from its users, who must exchange personal presence for absence; the body is there tapping away, but not the soul! The cell phone user has become a void![{31}](#)

## **The Power of Negative Thinking**

According to popular American motivational speakers, the key to unlimited worldly wealth, success and happiness is in the power of positive thinking that unleashes our full potential; however, according to obscure French social critics the key to

a meaningful life, lived in freedom, hope and individual dignity is in the power of negative thinking that brings limits, boundaries, direction and purpose.

Negativity gives birth to freedom, expanding our spiritual horizons with possibilities and wise choices, which grounds faith, hope and love in absolute truth, giving us self-definition greater than our circumstances, greater than reality of the senses. To freely choose in love one's own path, identity and destiny is the essence of individual dignity.

According to French social critics Jacques Ellul and Herbert Marcuse, freedom is only established in negation that provides limits and boundaries, which tells us who we are. Technological hyperreality removes all natural and traditional limits in the recreation of humanity in the image of the cyborg. The transhuman transformation promises limitless potential at the expense of individual freedom, personal identity and ultimately human dignity and survival.

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All limitless behavior ends in self-destruction. Human extinction looms over the technological future, like the Sword of Damocles, threatening humanity's attempt to refit itself for immortality in a grand explosion (nuclear war), a slow poisoning (ecocide) or suicidal regressive technological replacement. Stephen Hawking noted recently that technological progress threatens humanity's survival with nuclear war, global warming, artificial intelligence and genetic engineering over the course of the next 100 years. Hawking stated, "We are not going to stop making progress, or reverse it, so we must [recognize] the dangers and control them." [\[32\]](#)

In asserting "NO!" to unlimited technological advance and establishing personal and communal limits to our use of all



technology, especially the cell phone, computer and TV, we free ourselves from the technological necessity darkening our future through paralyzing the will to resist.{33}

After we “JUST SAY NO!”{34} to our technological addictions, for instance, after a sabbatical fast on Sunday when the whole family turns off their electronic devices, and get reacquainted, a new birth of freedom will open before us teeming with possibilities. We will face unmediated reality in ourselves and family with a renewed hope that by changing our personal worlds for one day simply by pushing the off button on media technology we can change the future. Through a weekly media fast (negation) we will grow faith in the power of self-control by proving that we can live more abundant lives without what we once feared absolute necessity, inevitable and irresistible. “All things are possible with God” (Mark 10: 27). When we exchange our fear of idols for faith in the Living God the impossible becomes possible and our unlimited potential is released that will change the world forever!{35}

I see trees of green, red roses, too,  
I see them bloom, for me and you  
And I think to myself  
What a wonderful world.

I see skies of blue, and clouds of white,  
The bright blessed day, the dark sacred night  
And I think to myself  
What a wonderful world.

The colors of the rainbow, so pretty in the sky,  
Are also on the faces of people going by.  
I see friends shaking hands, sayin', “How do you do?”  
They're really sayin', “I love you.”

I hear babies cryin'. I watch them grow.  
They'll learn much more than I'll ever know  
And I think to myself

What a wonderful world. [\[36\]](#)

"[I]f man does not pull himself together and assert himself . . . then things will go the way I describe [cyborg condition]." – Jacques Ellul [\[37\]](#)

## Notes

1. Jacques Ellul, *The Humiliation of the Word* (Grand Rapids: Eerdmans, 1985), vii.
2. Aerosmith, *Eat the Rich*, "Livin' on the Edge," Sony, 1993.
3. The same is true of the game last night—I caught the highlights on ESPN—no difference really—it never happened! The Presidential debates, my Facebook page, 911, televangelism, the online (electric) church: all reproductions, all exist at the level of Santa Claus in a dreamy, surreal world not really real: hyperreal, really!
4. French social critic Herbert Marcuse (1898-1979) described dimensional reduction in human nature through the process of "mimesis" very similar to Baudrillard's conception of *simulacra* (technological simulation) and Ellul's *la technique* (technological order). *Mimesis* eradicates all protest and opposition to the prevailing technological normalcy and silences all conscientious objections to the obvious or self-evident benefits (taken for granted) and blessings of technological progress. Like a frontal lobotomy when a section of the brain is removed that leaves all necessary automatic biological functions but removes the capacity to higher critical thinking, effectively silencing all differences, removing unique personality, individuality, and private space. The person is reduced to *one dimension* without the critical higher thought process or skills. Mimesis or mimicry transcends the adjustment phase to new technology known as *Future Shock* and brings the population into a direct and immediate relationship with the technological environment comparable to prehistoric and primitive cultures in their

relationship to their natural milieus, climates and habitats. Mimesis replaces the traditional social environment with a technological one, an imitation or mimicry (simulacra). Mimesis removes the ability to feel alienation. Through reduction of the individual to a cell (atomization) in the social body, one never feels out of place, discomfort or disease, etc., because there is no longer any sense of individuality or difference. Anesthetizing the soul kills the pain of maladjustment to modernity leaving all feelings alike; joy is indistinguishable from hate. What do people feel after a lobotomy? They feel nothing, *comfortably numb* describes postmodern sentimentality.

Mimesis reduces the population to impulsive consumers. Material goods tie us to the system. "People recognize themselves in their commodities; they find their soul in their automobile, hi-fi set, split-level home, kitchen equipment. The very mechanism which ties the individual to his society has changed and social control is anchored in the new needs it has produced" (Herbert Marcuse, *One-Dimensional Man: Studies in Advanced Industrial Society* [Boston: Beacon Press, 1964], 9). People are in love with their technology. Consumer objects express passion and spirituality; "For example, cars are not simply neutral transportation objects but beloved expressions of soul." Their self-image is locked in the kind of cars they drive, houses they live in: "From teen dreaming about a hot set of wheels to the self-imagined sophisticate, it is image that dictates our purchase . . . Most of us can't imagine why anyone would buy a Hummer except to flaunt his financial ability to conspicuously consume . . . Anyone who doubts the role of image needs only drive a rust bucket" (Lee Worth Bailey, *The Enchantments of Technology* [Chicago: University of Illinois Press, 2005], 7). "Image is everything!" Modern technological materialism has become the antithesis of the Christian way of life. Jesus said, "A man's life does not consist in the abundance of his possessions" (Luke 12:15).

## 5. Orders of Simulacra:

Renaissance: Copies of Original

Industrial: Mass Production of Original

Hyperreality: Recreation of Original

Metastasis: Reverse effects of the hyperreal stage of simulacra proliferate, comparable to the spread of cancerous tissue. "Metastasis: the transfer of disease from one organ or part to another not directly connected with it" (Benjamin F. Miller and Claire Brackman Keane *Encyclopedia and Dictionary of Medicine and Nursing* [Philadelphia: Saunders, 1972]). Hyperreality "more real than real" purports to be a technological improvement on nature and "the signs and symbols," (language) and institutions of traditional society, "better than real;" however, despite the apparent success of the hyperreal stage to deliver on its promise of improvement or "progress," opposite results threaten social stability. Disneyland gets boring. Media technology isolates people rather than bringing them together. Social media turns out to be anti-social. The automobile extends the commute to work. The computer increases the average work load and illiteracy, reduces jobs, depersonalizes individuals, kills privacy, creates universal surveillance, makes pornography and depictions of violence readily accessible to children. The cell phone is actually an excellent bomb detonating device. The computer atrophies human intelligence, logic, and thinking (creative and problem solving skills); through societal dependence on the computer people have forgotten how to think for themselves, and solve problems in any other way. The computer is not a simple tool used to organize knowledge, making it readily accessible, but as the centralizing technology through the digitalization process it recreates the world in its own image. Instead of happiness, the technological order is producing mass neurosis evident in the increase in depression, anxiety, attention deficit disorder,

anorexia, bulimia, suicide and the mass inability to differentiate between reality and illusion.

Metastasis in the Orders of Simulacra according to Baudrillard also reflects Jacques Ellul's critical technological analysis in his assertion of the law of diminishing returns (law of reverse effects), *The Technological Bluff* (Grand Rapids: Eerdmans, 1990). Once the threshold of reversal in technological progress is reached, a saturation point, beyond which any further advance is completely unnecessary (and thus further progress despite mass optimism) will produce reverse or opposite effects than intended. The technological threshold is reached when new technology is imposed on the population which was unnecessary prior to its invention. When necessity for a new technology appears after its invention the threshold of beneficial effects inverts and harmful consequences, side effects—intended or not—rapidly multiply. There is no use or felt needs for much of the technology developed in the 20th century; TV, computer, jet engine, rockets, atom bomb, cell phone, innumerable widgets and gadgets, so use is found and need artificially created. People have no felt need for a technology that does not yet exist. When useless technology is developed for its own sake (knowledge for knowledge's sake), rather than liberation it displaces *the good of mankind to the glory of God* as its object or *telos* and becomes an end in itself. The general population never asks for new technology; rather, technology is developed according to the technological imperative—whatever can be done should be done. Its beneficial use is unquestionably assumed and its use promoted through mass advertising and commercials (technological propaganda), and in short order a new necessity is added to the litany of technological requirements. As the list of “must haves” and “can't live without” grows in order to keep pace with the tempo of modern life, users voluntarily surrender their freedom for self-imposed technological necessity, blissfully unaware of any potential side-effects or untoward consequences.

The technological condition may be compared to generational slavery. Those born into servitude accept it as normal. The "happy slave" remains so through refusal to recognize his condition as "slave." He embraces the world as he finds it with all his material needs and appetites satiated. There is no reason to protest, compounded by the fact that he has no ability to do so. A slave will always remain a slave until he recognizes that he is a slave. And without an intellectual horizon to lift him above his condition as a real possibility he will forever remain a slave. The first step to freedom for the slave is to recognize his condition of slavery and the possibility of a different way of life through self-determination, but that is impossible without a degree of abstract analysis and a measure of critical reason. Comparatively, technological determinism imposes its frightful inescapable necessity as a natural order without a meaningful future beyond the present way of life. In stripping society of critical ability to reason and negate that order from a metaphysical view, humanity has lost its only absolute reference point outside its own limited existence and above its concrete situation from which to criticize technology and bring it under ethical control and moral limitation. God is greater than any technological idol made by human hands and provides an immovable ground from which humanity can reassert control, but mankind's Creator, Savior and Helper does him no good if he does not believe in his power or worse confuses it with the status quo, so that the apocalyptic power of God's confrontational judgment that leveled Babel (Genesis 11), Egypt (Exodus), Jerusalem and Rome is convoluted through blessing the technological utopia as *New Atlantis*.

The idolization of technology follows in the wake of modern science and rationalism but has a dehumanizing effect rather than amelioration. New technology brings new necessity and demands rather than freedom that exacts its price from humanity and nature, resulting in a much more complicated and dangerous world. The Apostle Paul stated that if we have food

and shelter we should be content (1 Timothy 6:8). The accumulation of material things beyond meeting basic needs becomes a new burden, an added necessity not there before, resulting in bondage not freedom. People are owned by their possessions, must work harder for their technology and have been reduced to cogs in the wheel of progress rather than individuals with inherent value made in the image of God. From electricity, to phones, appliances to automobiles to computers, cell phones, *ad infinitum, ad nauseam* each new technology begins with the promises of convenience and improving modern life by making it faster, then through habitual use it becomes necessary, eventually addictive. From the basic material needs of food and shelter modern life has added dishwashers, microwave ovens, vacuum cleaners, TVs, cars, computers and most recently the cell phone as necessary for life in modern times. The devaluation of human life pays for the technology that is developed for the sake of expanding the frontiers of knowledge and exploration rather than creating the condition of freedom. Human freedom is lost with each new artificial technical necessity, resulting in an increasingly nihilistic society; where power increases, choice is lost, resulting in increased meaninglessness. Nihilistic sentiment develops along with technological power; "*We know that power always destroys values and meaning . . . Where power augments indefinitely there is less and less meaning*" (Jacques Ellul, *Perspectives on Our Age* [New York: Seabury, 1981], 45). Technological necessity proliferates along with technological power over nature, reducing the scope of available choices, options or way of life that differs from those ensnared in the modern mechanized mainstream. What possibilities for a decent way of life are open to those who own neither car nor home, do not use a cell phone or computer, or possess at least a college degree? How *successful* will any corporate organization, church, school or business be if it does not use modern communication technology, radio, TV, computer or advertising techniques (propaganda) to promote its cause or product? As the world conforms itself to

technological necessity, “you must get a cell phone and use a computer or risk getting left behind,” it loses touch with the reality outside these devices, which is reduced and recreated online. For example, the traditional “church service” where believers join together in the unity of faith around the communion table as community and family becomes the embarrassing forgery of a lone spectator in front of a one dimensional monitor.

6. Paul Tillich, *The Spiritual Situation in Our Technical Society* (Macon, GA: University Press, 1988), 7. “Tillich describes the creation of a ‘second nature’ that results from science’s attempt to control nature. Second nature in turn subjects man to the same domination he wishes to exert over nature, making himself subject to the very thing he had created to liberate him” (Lawrence J. Terlizze, *Trajectory of the 21st Century: Essays on Theology and Technology* [Eugene, OR: Resource Publications, 2009, 155]).

7. Baudrillard’s description of Simulacra is reminiscence of Herbert Marcuse’s depiction of “Mimesis” in *One-Dimensional Man*. Mimesis: the total identification of the individual with technological environment that mimics, apes or imitates historical social conditions, for example the city replaces nature, the automobile replaces the horse and carriage, TV replaces the family hearth, social media substitutes for personal relationships. [Muk-bang](#) replaces family members at the dinner table, traditional institutions that requires a personal presence, school and church, are rapidly transferring to the online medium. Likewise Jacques Ellul in *The Technological Society* describes technological advancement or “*la technique*” as creating a new environment, one that overlays both the natural and historical social environments with an urban/industrial/digital one.

8. Braden Allenby and Daniel Sarewitz, *The Techno-Human Condition* (Cambridge, MA: MIT Press, 2011), 1-13; *Humans Need Not Apply*, CGP Grey, 2014. The Transhuman Transformation is



the ultimate in works salvation that lifts humanity to the next stage in evolutionary development through technological immortality or digitalized godhood that replaces all his physical corruptions with artificial replacements in the simulated heaven of a computer server. The computer does not dominate the will of humanity, enforcing universal peace through fear of annihilation as in the movie *Colossus: The Forbin Project* (1970), but assimilates humanity digitally and recreates it in its own image or highest ideal. The robots are not taking over, rather humanity is surrendering its will and decisions to the computer in tired resignation of life which has become too difficult by its own design.

9. "O LORD . . . What is man that you are mindful of him or the son of man that you visit him? For you have made him a little lower than the angels and crowned him with glory and honor" (Psalm 8:4, 5). "Angels," Elohim (God) in Psalm 8:5 refers to the divine visitation (theophany) mentioned in verse 4, the Angel of The LORD, i.e., Genesis 18; 19; 22:15; 32:24-32; Exodus 12:12, 13. Humanity was made highest in God's created order, below the creator and above the angelic host in the chain of being; "Don't you know you will judge angels?" (1 Corinthians 6:3). Angels are "ministering spirits sent to minister to the heirs of salvation" (Hebrews 1:14).

10. We are not saying one cannot reduce a complicated argument, book, movie etc., to its main points in outline form. We are saying that reduction does not replace the original, as somehow "better." A well-done outline does not alleviate the audience's responsibility to discover for itself, to pick up and read, but will inspire the audience to do so. Reading Calvin's *Institutes*, or Augustine's *City of God* or Thomas' *Summa Theologica* in PowerPoint or Cliff Notes is comparable to watching the Super Bowl in highlights instead of in its entirety from kickoff.

The proliferation of the digital camera as appendage to the cell phone has created the absurd phenomenon of reduction of

reduction in the class room. As the PowerPoint slide has allowed professors to reduce all learning to three pertinent bullet points per slide, so students have followed their cue in picturing the text (taking a picture of the slide). Instead of suffering the laborious and tedious task of jotting down a simple outline in a note book, a helpful mnemonic practice, they take a picture of it, reducing the slide to digital acknowledgement and temporary storage before deletion, in order to make room for the pictures of tomorrow night's Harry Potter costume gala. Education isn't what it used to be, it just isn't!

11. Jean Baudrillard, *Simulacra and Simulation*, 166 ff.

12. Umberto Eco, *Travels in Hyperreality* (New York: HBJ, 1986), 43.

13. The projections of visual media may have their origins in "the desert of the real" as Baudrillard puts it, but what the spectator sees on his screen, monitor or photograph should not be confused with "reality," but recreated reality mediated through an electronic medium. Marshall McLuhan's famous maxim for media analysis, "The medium is the message," undergirds this critical understanding of media technology. Any fan of live entertainment or sports knows immediately that TV broadcast of a live venue is an entirely different event than being there live behind home plate or on the fifty yard line. Preference for the surreal, sterilized, cartoonish, Apollonian images on TV and in film, rather than seeing the actual blots, blemishes and facial scars of people, perspiring athletes or hearing the crack of the bat is not the central moral issue, which does not come down to preferences, which are already conditioned by excessive media exposure at an early age. The failure to distinguish between reality and hyperreality constitutes the greatest dangers of the technological simulacra. When the general audience mistakes or confuses the hyperreal for reality, it allows itself to be deceived. When it believes what it sees on TV to be the literal unbiased

truth, when in fact TV broadcasts a highly opinionated reconstructed version designed to transport its audience to a dream-like existence, the audience loses touch with reality and becomes immune to moral conscience, guilt and remorse for its actions—for example, war, ecological destruction, racism, etc. Group deception and delusion is rooted in personal inability to distinguish fact and fantasy, reality and illusion creating a strange self-hypnotic mass psychosis, easily persuaded by the predominate image projected into its thinking. “Brainwashing” or “mind control” are not the best choice of words, yet the terms still resonate for many people in describing the immediate effects of visual media on the audience. Electronic media bypass the rational process and speaks directly to the emotional or subconscious. Media effects the shaping of behavior through mass appeal of image, a reproduction of reality framed in drama and grounded in the erotic (sex appeal), moving the mass to do something (doing is being), buy, give, join, fight, etc., without the ballast of critical reflection that will spare a people from rushing headlong into disaster. The irrational nature of the emotional appeal was the cause for Plato’s expulsion of artists, musicians and dramatists from his fictional utopia *The Republic*. By allowing irrational appeal free reign, the public loses the appeal to critical reason as the measure of truth and the people become prone to deception and mass manipulation by a tyrant. Likewise Jesus urges all to pause in rational reflection, “to count the cost” like a king going to war or building a tower, before deciding to follow him (Luke 14:25-33).

The failure to discern the difference between reality and illusion in mass and social media is due to the intoxicating effects of hyperreality and the loss of critical reason in the public’s media consumption. Electronic media numbs awareness to reality and allows escape to fantasy, as the universal *soma* (perfect drug from Huxley’s fictional tale *Brave New World*). The condition of intoxication or “drunkardness” is one of

self-induced madness, so the self-hypnotic condition of electronic media creates a similar neurosis. Karl Marx criticized religion as "the opiate of the people," accurate for the masses living in the industrial conditions of the 19th century, but obsolete as a description of the masses since the invention of television, which has replaced religion as the opiate of the people.

When image dominates a societal mindset and learning, emotional (sex) appeal moves the population in mass conformity or group behavior that ousts critical reason in herd mentality, subject to the whims of the image makers, propagandists, clergy, advertisers, etc. Ellul noted two orders of thinking determined by the means of learning: image and language. Image learning presents knowledge as a totality, each image is a world, complete and ready-made, certain of its own truthfulness, imparting its information instantly so long as we occupy the same space as the image. "The image conveys to me information belonging to the category of evidence, which convinces me without any prior criticism" (Ellul, *The Humiliation of the Word*, 36). The image impresses itself on the character of the learner through unconscious acceptance that does not follow the logical sequence of language from start to finish, beginning to end but produces a haphazard collage of contradicting light totalities that appeal immediately to the moment (instant gratification). Image based learning produces a monolithic mentality or stereotypical thinking and prescribed behavior. Critical reason is never allowed to assert differences; extremes are normalized so that everything is accepted. This is very apparent in the current PC orthodoxy widely accepted in the Millennial generation, the first generation raised on the computer, that stupidly pontificates that any assertion of difference between sexes, races, religion, etc., etc., amounts to "hate-crime." For example, the gay lifestyle is no longer an acceptable alternative to monogamy but now has legal sanction as part of the mainstream establishment, despite its irrational and

unnatural character. Islam is accepted as a religion of peace and compatible with Western democracies, yet no proof is ever offered to support this claim from the history of Islam. And the universal inanity of technological neutrality that provides the false sense of individual control over technological use, rapidly degenerates to technological necessity and inevitability of technological progress in actual daily behavior. Technology cannot be both neutral in its character under control of human choices and necessary or not under control of human choices, but autonomous (developing according to its own inner logic) at the same time; yet this inherent contradiction is completely ignored by all advocates of unlimited technological progress, Transhumanists, Futurists or simply all those who feel invested in the latest innovation: intellectuals, preachers, writers, professors, technogeeks, technognostics and technophiles. The smartest people in society appear completely oblivious to the contradiction of believing that technology is neutral in its essence yet necessary in application, rationalizing its rapid acceleration, not because they are bad people but because their thinking is dominated by the image of unlimited progress and human perfectibility projected onto them from the computer, rather than a rational way of thinking growing out of the book and lecture. Computerization of all human life creates the cardinal value of speed for its own sake (faster is better), which necessarily leads to nonlinear or irrational (emotional) learning through images because it is easy, instant, and unconscious, producing stereotypical categories and behavior. The word expressed in speech and writing produces opposition to image domination of the computer because it is slower, linear and critical.

The second order of thinking Ellul says comes from language or the spoken and written word which must follow an arduous task of connecting letters, words, sentences and thoughts to each other through the process of speaking, reading and writing which follows the contours of logical sequence in step by step

growth in knowledge and reason. Language learning does not begin with the self-asserting certainty of the totalitarian image, but develops progressively from "the unknown to uncertain and then from the uncertain to the known." (Ellul, *The Humiliation of the Word*, 36); dialectically including doubt, objection, protest or difference in the attainment of knowledge. Language is rational, self-aware or conscious, certain of what it knows but never exhaustive in its claim to absolute total knowledge, therefore it remains critical or open to differences of opinion and further learning; there is always something new to learn, discover and explore. Language allows for personal identity through individual choices that are free but never absolute or final beyond correction or criticism. In the total world imposed by the image, knowledge is absolute with nothing new possible, therefore it must be accepted uncritically.

Because language is rational it also produces the highest standards in ethics and morality-rooted individual values and beliefs. Rationalism always produces the greatest moralism. In the ancient world the rational school of philosophy (Stoicism) based on their belief in logos (universal reason) was also the most ethical in their practice of universal peace, and equality. In world religions Buddhism stands as the most rational in its beliefs of simple universal truths leading to practical moral behavior (Four Noble Truths: life is suffering, suffering is caused by selfish desire, suffering is alleviated by limiting selfish desire, curb selfish desire through the practical application of the Eightfold Path). Modern Rationalism culminating in the 19th century was also one of the profoundest in moral character in all strata of society, education, politics, economics and religion. The ethic of love rooted in the Fatherhood of God and Brotherhood of Man was considered the essence of Christianity in the 19th century (Harnack, *What is Christianity?*). The Jewish rabbinical approach to learning through language is legendary for its rationalism and strict legalism as well as its Islamic

counterpart in the Muslim devotion to the Koran, Sharia Law and iconoclasm.

In the second order of language, ethics are grounded in personal choices as a product of rational criticism, which allows for meaningful differences of opinion and the free creation of values. In the first order of image learning, all views are standard and all behavior an expression of group conformity. "The image tends . . . to produce conformity, to make us join a collective tendency" (Ellul, *The Humiliation of the Word*, 35). Thus the two orders of thinking are opposed to each other. The first order in totalitarian fashion is in the process of eradicating the second order through purging critical reason from the mindset of the population like a mass spiritual lobotomy that removes part of the brain that contains the higher function of reason and abstract thought process. The image overwhelms the word through reduction and then removal and remaps the collective mind to think accordingly, freedom of thought is left open as possibility only because most people cannot think for themselves but are programmed through media saturation. Note the drift in social media from glorified email responses on Facebook to the forced shrinkage of the word to 120 characters on Twitter, to finally pictures only on Tumblr, and Instagram. The second order in critical toleration of the image does not want to eradicate it, but put image in its place, not as an expression of truth or reality but a simple illustration in service of the word and higher critical function of human nature through which humanity creates its self-definition, limits and significance. The second order of language thinking does not separate rational discourse in philosophy from a dramatic presentation in literature, or the arts, film or TV, etc. The Twentieth Century French Existentialists demonstrated the compatibility of rational discourse through abstract prose and exposition and the concrete embodiment of their ideas in dramatic forms such as plays, novels and movie illustrations. Jean Paul Sartre, Albert Camus, Gabriel Marcel wrote the most

penetrating philosophical analysis of the modern condition of alienation as well as the greatest poetic description of modern despair and hope, for example, compare Sartre's tome *Being and Nothingness* with his play "No Exit" or Camus' essay on *The Myth of Sisyphus* to his novel *The Stranger*. Theologian Paul Tillich argued likewise that art serves as the spiritual barometer of culture. Through rational analysis of art, literature and drama the church will gain a better read on the spiritual climate of the society it hopes to evangelize and better tailor its message of the gospel to the concrete situation expressed through peoples felt needs. Even Jacques Ellul the leading social critic of visual media and advocate of word over image adopted a similar method of point and counter point as the existentialists by pairing the most penetrating sociological analysis of technology, raising the question how to limit autonomous technique and answering it with an allegorical interpretative method of the biblical text under the respectable umbrella of Barthian theology through his ethic of limits or nonpower. Compare *The Technological Society* to his biblical exposition of Genesis in *The Meaning of the City*.

14. On Facebook, friends can number into the thousands. New friends are just a click away; you don't even have to know them or even meet them to be friends. Aristotle said that friends are the people we eat with every day. Simple enough to grasp, but what does an ancient Greek philosopher know compared to the moguls of social media?

15. Baudrillard and Eco validated Gasset's thesis in *Revolt of the Masses* that science and technology sows the seeds of its own demise by elevating the mass of humanity through its values of discovery, invention and discipline, yet the mass revolt against those values that brought them to dominance. This is the same basic thesis that argues we are the victims of our own success as applied to capitalism and the accumulation of wealth. One generation works to achieve a



level of wealth that the next generation inherits with all the benefits of wealth but none of the sacrifice of the previous generation. Therefore it squanders it not knowing the value of wealth not having to work for it and being raised in privilege.

Gay Marriage is another recent example of simulacra. The hyperreal replaces the real with a copy made in our own image. Contemporary society is under a spell, thinking it can remake the institution of marriage founded in the Bible between one man and one woman (Genesis 2 and Matthew 19) to include its opposite or whatever the courts deem acceptable; eventually the courts will accept the union of people and their pets. Already the Disney Corporation has changed the name of The Family Channel to Free Form, an ominous precursor to the dissolution of meaning to the sacred word family in American popular culture and its reprobate legal system.

16. Reality and Truth are not coequal or synonymous terms, but signify different metaphysical orders. Ellul noted that the unity of reality and truth expresses "the unity of being" (Ellul, *Humiliation of the Word*, 96), or the right relationship between the Creator and his creation. Truth belongs to God's essence alone, as the One Eternal Absolute. Reality expresses the multifaceted finite human concrete situation. When our reality aligns with God's truth we experience the peace of redemption that passes understanding, harmonious being. Reality is the realm of sight that leads us away from the truth of the invisible God who cannot be seen and is found only through the word (speech, talk, conversation, discourse, lecture, song). The visible is the realm of false idols incarnated as very real visible powers (gods): Money, the State, and Technology (Ellul, *The Humiliation of the Word*, 94, 95). The order of reality is the order of human life which Nietzsche argued may include error. "Life no argument—We have fixed up a world for ourselves in which we can live—assuming bodies, lines, planes, causes and

effects, motion and rest, form and content: without these articles of faith, nobody now would endure life. But that does not mean that they have been proved. Life is no argument; the conditions of life could include error." (Friedrich Nietzsche, *The Gay Science* (New York: Vintage, 1974), 177 [121]). Iconoclasm then becomes the mission of the church as it proclaims the gospel and demolishes spiritual strong holds which is the battle for the mind "destroying speculations . . . raised up against the knowledge of God" (2 Corinthians 10:3-6); "iconoclasm is always essential to the degree that other gods and other representations are manifested . . . Today reality triumphs, has swept everything away and monopolizes all our energy and projects. The image is everywhere, but now we bestow dignity, authenticity and spiritual truth on it. We enclose within the image everything that belongs to the order of truth" (Ellul, *The Humiliation of the Word*, 94, 95).

17. In terms of an ethic of technology biblical truth translates as limit before use or law before license. For example, When adults set time limits on media use for their children anywhere from twenty minutes to an hour of screen time be it TV, computer or cell phone, they are practicing an ethic of technology.

Social critic Jacques Ellul stated; "The 'yes' makes no sense unless there is also the 'no' . . . the no comes first, death before resurrection. If the 'No!' is not lived in its reality the yes is a nice pleasantry, a comfort one adds to one's material comfort, and as Barth has conclusively shown the No is included in the gospel" Quoted in Lawrence J. Terlizese, *Hope in the Thought of Jacques Ellul* (Cascade: Eugene, OR, 2005), 127; Jacques Ellul, *False Presence of the Kingdom*, 25.

18. Original Divine Command: "From any tree of the Garden you may eat freely, but from the tree of the knowledge of good and evil you shall not eat, for in the day that you eat from it you shall surely die" (Genesis 2:16, 17 NASB).

Satanic Recreation of the original command: "Indeed, has God said, 'You shall not eat from any tree of the garden'"(Genesis 3:1 NASB).

Imperative turns into question through a simple shift in voice emphasis, "Don't eat!" to "Don't eat?", inciting disobedience instead of obedience as its effect, confusing the knowledge of good and evil.

19. The hyperreal replaces the real with a copy made in our own image. A copy is never greater than the original and to believe that a glorified reduction, a snap shot somehow surpasses the original shows just how far along the popular delusion has advanced. Simulacra is portent to antichrist: "The one whose coming is in accord with the activity of Satan, with all power and signs and false wonders, and with all the deception of wickedness for those who perish, because they did not receive the love of the truth so as to be saved. For this reason God will send upon them a deluding influence so that they will believe what is false in order that they all may be judged who did not believe the truth, but took pleasure in wickedness"(2 Thessalonians 2:9-12). Mass media qualifies as "a deluding influence": remaking the image of God in the image of an image. "Language is unobtrusive in that it never asserts itself on its own. When it [mass media] uses a loudspeaker and crushes others with its powerful equipment, when the television set speaks, the word is no longer involved, since no dialogue is possible. What we have in these cases is machines that use language as a way of asserting themselves. Their power is magnified, but language is reduced to a useless series of sounds which inspires only reflexes and animal instincts" (Jacques Ellul, *The Humiliation of the Word*, 23).

The first commandment teaches that "You shall not make any graven images . . . you shall not bow down to them nor worship them (Exodus 20:4, 5). The construction of image is always a reduction from an original and imperfectly copies what it claims to represent; presenting a false image of God, an idol.

The idol transforms its worshipers into its own image. All those who worship idols become like them (Psalms 115).

By worshiping the creature humanity dehumanizes itself by bowing down to the created order lower than itself. The prohibition against worshiping idols is meant to spare God's people from corrupting God's glory by reducing the invisible Creator to the visible creation and enslaving themselves to the works of their own hands. Idolatry exchanges "the glory of the incorruptible God for an image in the form of corruptible man . . ." (Romans 1:23). The idol is the construction of man, representing his ideal of God (image) in his own image, which in turn recreates man as slave in the image of the idol. Here we see perfectly in the biblical model of idolatry, the same Transhumanists enterprise of constructing an ideal image (cyborg) in the image (mankind) of an image (the computer), leading not to human ascendance or godhood but dehumanization or slavery by placing humanity lower than its own creation (the cyborg condition). Man builds an idol he thinks represents God which in truth is a reduction of the glory of God into the image of the creature and lowers himself through worship of the false image of God making himself a slave to a thing that appears real but really does not exist outside of humanity's faith in its own self-projection.

The first commandment prohibits "graven images" the invisible God cannot be seen in the works of human hands (Acts 17). All images of God are an affront to his holiness and danger to his children. Idols reduce God to the false image which then further reduces worshipers.

Iconoclasm is the central liberation mission of the church in its declaration of the gospel.

"No one can see God and live" (Exodus 33:20). "Images are incapable of expressing anything about God. In daily life as well, the word remains the expression God Chooses. Images are in a completely different domain—the domain that is not God

and can never become God on any grounds" (Ellul, *The Humiliation of the Word*, 91).

20. Ellul, *The Humiliation of the Word*, 96.

21. God's revelation comes only through the spoken word received by faith never through sight, which must remain subservient to the oral, spoken invisible message. "Faith comes from hearing and hearing by the word of Christ" (Romans 10:17). "We look not at the things that are seen, but at the things that are not seen; for the things that are seen are temporal, but the things that are not seen are eternal" (2 Corinthians 4:18). "We walk by faith, not by sight (2 Corinthians 5:7). "Faith is the assurance of things hoped for, conviction of things not seen . . . By faith we understand . . . Without faith it is impossible to please God" (Hebrews 11). "The righteousness of God is revealed from faith to faith, as it is written; 'The righteous live by faith'" (Romans 1:17). "Set your mind on things above [the invisible Christ, "the way, the truth and the life"], not on the things that are on earth [the visible, material, tangible, concrete reality of the present world]." "Fixing our eyes on Jesus the author and perfecter of faith" (Hebrews 12:2). The aural, auditory sense or put simply the ear is the organ of perception and faith never the eyes. Sight brings only doubt; despite popular opinion seeing is not believing, but unbelief. The desire to see the truth is rooted in doubt and unbelief; "Unless I see . . ." doubting Thomas said, ". . . I will not believe" (John 20:25). "Blessed are they who have not seen and yet believe" (John 20:29). "Sight played an enormous role in the Fall and caused all of humanity and language to swing to its side. Under these circumstances, it is understandable that the Bible so often relates sight to sin. Sight is seen as the source of sin, and the eye becomes the link between reality and the flesh. The eye is seen as the focusing lens of the body (but only of the body). The Bible speaks of the lust of the eye and of the eye as the source and means of coveting. Now we know

that covetousness is the crux of the whole affair, since sin always depends on it. "You shall not covet" (Ex. 20: 17) is the last of the commandments because it summarizes everything—all the other sins" (Ellul, *The Humiliation of the Word*, 100, 101). Because Eve looked upon the fruit, she lusted after wisdom, the knowledge of good and evil, a possession she desired but did not work for or earn that did not belong to her. "Eve coveted equality with God . . . She coveted autonomy of decision" (Ellul, *The Humiliation of the Word*, 101). Lust is born from sight of the material possession. The Tenth Commandment lists a prohibition of desire on what does not belong to us but is rightfully our neighbor's: his wife, house, domesticated animals and servants, all must first be seen before desired. Today we call these possessions status symbols, spouse, house, cars, money, etc., etc., all the objects of consumer desire that dominate our visual horizon through advertising, commercials and the all-pervasive world of image, which fills us with materialistic greed.

22. Technological convergence brings TV, computer, cell phone, video game (telecommunications) together as one medium. Professor of Philosophy Andy Clark notes that the cell phone is the gateway to the cyborg condition: "The cell phone is, indeed, a prime, if entry-level cyborg technology" (Andy Clark, *Natural-Born Cyborgs: Minds, Technologies, and the Future of Human Intelligence* [New York: Oxford University Press, 2003], 27). The cell phone has evolved from a clumsy mobile phone into a sleek microcomputer that puts the full resources of the internet at the fingertips of the user.

The computer medium heralds the absolute closing of the human mind and cultural diversity by subverting all ends to its means it creates the condition necessary for total domination of the human spirit. All total systems subvert ends to means in their revolutionary beginning, such as the Napoleonic empire, fascism and communism. "By any means necessary," or "for the good of the cause" becomes the motto of the radical

on the road to totalitarian paradise (Serfdom). The computer coopts all nontechnical areas; in the form of "technical aid and support" subverting their ends by overbearing means. As the absolute single point of convergence for all humanity the computer fixes its own organizational categories on every person, discipline (field) or organization that uses it. The passage of admission to digital utopia is technical conformity (surrender). All nontech people and fields must soon learn the ways of the computer, if they expect to survive in the new universal cyber regime (the technological order). Liberal Arts, for instance no longer exists as a separate track or discipline in a dialectical counter balance to Science. Beholden to the computer for success it has sold its spiritual birth right as moral conscience through cultural critic or prophet to the rational establishment. By way of apt analogy, in the past when churches received State support through official recognition as the established religion they became in effect the court prophets, chaplain's to the king. They "sold out" to the powers that be, forfeiting their divisive voice. Dissent is never allowed in any total system by definition, otherwise it would not be total. Those who profit from the system are not in a position to disagree with its direction without mortal endangerment. The old maxim "never bite the hand that feeds you" was rigorously applied by the official religions in the past. Likewise, rarely is a critical voice heard today through the prodigious production of liberal arts in media, except for science fiction film. The old dichotomy of art and technology embodied in the Intellectual verses the City model has resolved itself in the computer. Chilton Williamson, Jr. noted the subtle reeducation the older generation of writers must endure in order to practice their craft using the computer. "Writing ought to be, technically speaking, among the simplest and natural of human actions. The computer makes it one of the most complex and unnatural ones. It is nothing less than a crime against humanity, and against art, that a writer should be required to learn how to master a machine of any kind whatsoever in order to write a single

sentence. But no writer today can succeed in his craft if he does not learn to become a more or less skillful machine operator first." ("Digital Enthusiasm" in *Chronicles* [June 2014, 38.6], 33). The end or goal of writing (to be read by others) has been subverted by means of the computer (Subversion: to corrupt an alien system for different ends from within, for example; primitive Christianity was subverted by the political forces of the later Roman Empire, creating Christendom). Computer subversion of humanity has been repeated simultaneously with writing since the digital revolution in the 1990's.

By giving children at the earliest age possible a computer to play with and master, turning work into play, the technological oligarchy has guaranteed that they will grow to become computer technicians in some degree and has successfully circumvented the nasty reeducation process necessary to all revolutions in the past. As the product of the digital revolution the Millennial generation has inherited the onerous responsibility of being the first generation raised on the computer as their defining characteristic. They are the first non-national generation, identifiable by digital acuity, video game addiction and the cell phone, rather than by race, gender or creed. The world that they create will ultimately prove their humanity or not.

One machine that can do everything controls everyone, even now as I write an unsolicited advertisement appears on my computer screen telling me that "Technical support is designed to monitor your system for issues." Positively Orwellian! No greater insidious subtlety to seduce the human spirit than the emerging global technological order has appeared since the Tower of Babel!

All total systems are inherently corrupt and eventually self-destruct.

23. Philosopher Michael Foucault builds on Jeremy Bentham's



purposed panoptic system theory by arguing that Bentham's proposed universal prison surveillance system that kept prisoners under constant watch has been extended to contemporary society through media saturation. Law Professor Jerry Rosen argues that through social media society has entered a condition he describes as "Omniopticon" where we are all watching each other (*The Naked Crowd*); Ellul, *The Humiliation of the Word*, 152; Reg Whitaker *The End of Privacy: How Total Surveillance Is Becoming a Reality* (New York: New Press, 1999).

24. Hyperreal communities, churches, schools, dating sites do not allow for individual charisma, personal persona, flamboyancy, speech impediments, warts, blemishes, ugliness, beauty, intelligence, everything thing that makes an individual unique disappears behind the brilliance of a cartoon reality.

The modern socialization process once reserved for family, church and community in traditional society has been usurped by media and the State. Socialization is the rather sensitive and all important process through which values are imprinted on youth. Socialization is everything! Society receives its understanding of right and wrong, good and evil in a word normalcy through socialization. In the mission of the church socialization is equal to evangelism. If the church successfully evangelizes a society, converting everyone to the Christian faith, it must then pass those values to the next generation, if it fails to do so it must then start the whole evangelization process over. Regrettably, the American church is learning this lesson the hard way, after surrendering the socialization process of Christian youth to media, and public schools. The most media saturated and technologically adapt generation in human history is rapidly becoming the most nihilistic since late antiquity.

Media transmits collective values directly to the social body by passing the individual consciousness. Mass media transmits

its own values of consumption and materialism that traditional family, church and community as social agents cannot compete with according to social critic Herbert Marcuse. Media transmits the values of "efficiency, dream, and romance." "With this education, the family can no longer compete." The father's authority is the first traditional value to fall. (Herbert Marcuse, *Eros and Civilization: A Philosophical Inquiry to Freud* (New York: Vintage 1955, 88).

25. John L. Locke, *The De-Voicing of Society: Why We Don't Talk to Each Other Anymore* (New York: Simon & Schuster, 1998), 19.

26. The only reason people give as to why they use media technology is because of its convenience, it is easier to send an email or text than write a letter and use a postage stamp. However, ease of use and convenience shows lack of understanding as well as accountability. "I use it because it is easy" is hardly a thought-out moral defense for one's action! And here is where the trap lies for all of us. The history of technology demonstrates that convenient and pervasive use over time slowly turns into necessity. What was once done because it was so easy to do, eventually must be done. TV, computer and most recently the cell phone, these technologies never appeared as necessities but convenience, but now they are irresistible necessities. Convenience turns into necessity because it was so easy to send a text, or email, we have forgotten how to communicate in any other way, or refuse to relearn those old ways. Convenience dulls the spirit and numbs the mind, producing stupidity and apathy by removing all other practices from our intellectual horizon. Beware of anything thing that looks so easy, it is nothing more than a hook to necessity. The old saying, "If it sounds too good to be true it probably is," applies to technology as well. "Whatever appears to make your life easier right now in the long run may make it more difficult." Convenience turns into habit, habit turns into need, need turns into addiction.

27. The friendships forged in traditional institutions create the social support network for an individual throughout his professional career. As an online professor I did not know how to write a letter of recommendation for a student I have never met in person. Education has become so dominated by technical learning, all students in essence are studying to be engineers in their field whether teachers, medical practitioners, social workers etc.; they are taught efficient methods as administrators or managers of large groups of people.

28. Martin Heidegger, *Being and Time* (San Francisco: Harper and Row, 1962).

29. Quoted in Locke, *The De-Voicing of Society*, 43.

30. Ellul, *The Humiliation of the Word*, 122. "Even more, it [the camera] keeps me from proceeding to cultural assimilation, because these two steps can be taken only in a state of availability and lack of preoccupation with other matters – a state of "being there." (Ibid).

31. In line with Baudrillard thesis on the orders of simulacra, popular cell phone use, namely texting, demonstrates regressive effects of the latter stage of simulacra: metastasis or reversal of effects. It is quite common to see people texting and even preferring texting to any other mode of communication, especially phone calling, when it is obviously easier to call and talk than it is to text, time wise and in terms of context and amount of content necessary for successful conversation, yet texting is preferred because of its impersonal nature; people prefer the harder task of texting because it is impersonal, however, impersonal communication is less effective to the point of communication.

32. *Radio Times* (January 2016). Hawking said bluntly, "I think the development of full artificial intelligence could spell the end of the human race." Quoted in "Rise of the Machines"

in the *Dallas Morning News* Sunday, February 14, 2016, 1P. Recognizing and controlling the dangers of progress is a call for limits and boundaries to technological acceleration possible only through negation.

33. The fear of living without the necessity that controls us reveals the modern condition of technological determinism. In confronting determinism we must appeal to “the individual’s sense of responsibility . . . the first act of freedom, is to become aware of the necessity” (Ellul, *The Technological Society*, xxxiii).

Necessity (whatever we fear we cannot live without) is always a limitation placed on human nature, such as the basic biological needs to eat and sleep. Necessity limits freedom and therefore power and ability. Death is also a necessity, without which new life and growth cannot take place. However, death is the last enemy, which is defeated finally in the resurrection of the saints (1 Corinthians 15:50-58). To believe as Transhumanists do that death can be overcome through technological enhancement can only result in abomination. Professor of Computer Science Matthew Dickerson prophetically asks, what if the Transhuman “transformation is based on something that is not true? What will we be transformed into?” (*The Mind and the Machine: What it Means to be Human and Why it Matters*, Grand Rapids, MI: Brazos Press, 2011), xiv.

34. A campaign to “JUST SAY NO!” to further technological advance that threatens human existence, such as artificial intelligence, must be a collective effort for the entire human race, but begins with our own personal individual choices in limiting technological use, i.e. TV, computer, cell phone, and automobiles, and set boundaries to consumption on all consumer products. Resist the digitalization of traditional life through technological transfer of community to the online medium. Despite the convenience of a total online education it is unconscionable and detrimental if online students never

encounter a real college classroom, talk face to face with a professor and argue in group discussion with peers. Likewise, the church cannot remain the Body of Christ by shunting its responsibilities to parishioners, new members and seekers by declaring online and televised services equal to a live one. "Do not forsake the assembly of yourselves together" (Hebrews 10:25) prohibits a total digitalization of Christian worship and community. Christ said, "Where two or three have gathered in my name, I am there in the midst of them" (Matthew 18:20). The bodily presence necessary for community conveyed in these passages must not be allegorized by techno-agnostics who equate physical isolation in front of an electric screen to be "just as good" as being there.

35. We are enslaved to what we fear we cannot live without whether it be money, sex or technology. The rich young ruler did not follow Christ because he could not imagine life without his wealth, the security, comfort and power it bestowed was greater than the promise of eternal life through Jesus Christ. "Children, how hard it is for those who trust in riches to enter the kingdom of God" (Mark 10:24). The disciples were in shock at Jesus' utter intolerance to devotion to anything other than God: "You cannot serve God and money [technology, power]" (Matthew 6:24). Knowing their own attachment to wealth, they despaired, "Who then can be saved?" (Mark 10:26). It appears impossible to give up what we fear we cannot live without. "What shall we eat? What shall we drink? What shall we wear?" (Matthew 6:25); the perennial anxiety and pursuit of the faithless and fearful enslaved to material (bodily) necessity; "Is not life more than food and the body more than clothing [enhancement]?" (Matthew 6:25). "For after all these things the Gentiles [unregenerate] seek" (Matthew 6:32). "But Lord Jesus, we cannot live without cell phones and computers, any more than we can live without money! Get real, be reasonable—Lord you are asking the impossible of mortal sinners." And Jesus agrees, "With people it is impossible, but not with God; for all things are possible with God" (Mark

10:27).

36. Louis Armstrong – *What A Wonderful World* Lyrics | MetroLyrics

37. Ellul, *The Technological Society*, xxxi.

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# **The Technological Simulacra [no footnotes]**

## **What Saccharine is to Sugar, or The Technological Simulacra: On the Edge of Reality and Illusion**

“Anyone wishing to save humanity today must first of all save the word.” – Jacques Ellul

### **Simulacra**

Aerosmith sings a familiar tune:

*“There’s something wrong with the world today,  
I don’t know what it is,  
there’s something wrong with our eyes,  
we’re seeing things in a different way  
and God knows it ain’t [isn’t] his;  
there’s melt down in the sky. We’re living on the edge.”*

What saccharine is to sugar, so the technological simulacra is to nature or reality—a technological replacement, purporting itself to be better than the original, more real than reality, sweeter than sugar: hypersugar.



[This article with footnotes](#)

*Simulacra*, (*Simulacrum*, Latin, pl., *likeness, image, to simulate*): or simulation, the term, was adapted by French social philosopher Jean Baudrillard (1929-2007) to express his critical interpretation of the technological transformation of reality into hyperreality. Baudrillard's social critique provided the premise for the movie *The Matrix* (1999). However, he was made famous for declaring that the Gulf War never happened; TV wars are not a reflection of reality but projections (recreations) of the TV medium.

Simulacra reduces reality to its lowest point or one-dimension and then recreates reality through attributing the highest qualities to it, like snapshots from family vacation. When primitive people refuse to have their picture taken because they are afraid that the camera steals their souls, they are resisting simulacra. The camera snaps a picture and recreates the image on paper or a digital medium; it then goes to a photo album or a profile page. Video highlights amount to the same thing in moving images; from three dimensions, the camera reduces its object to soulless one-dimensional fabrication.

Simulacra does not end with the apparent benign pleasures of family vacation and media, although media represents its most recent stage. Simulacra includes the entire technological environment or complex, its infrastructure, which acts as a false "second nature" superimposed over the natural world, replacing it with a hyperreal one, marvelously illustrated in the movie *Terminator 2: Judgment Day* (1991). As liquid metal conforms itself to everything it touches, it destroys the original.

Humanity gradually replaces itself through recreation of human nature by technological enhancements, making the human race more adaptable to machine existence, ultimately for the purpose of space exploration. Transhumanists believe that through the advancements in genetic engineering, neuropharmaceuticals (experimental drugs), bionics, and artificial intelligence it will redesign the human condition in order to achieve immortality. "Humanity+," as Transhumanists say, will usher humanity into a higher state of being, a technological stairway to heaven, "glorification," "divinization" or "ascendency" in theological terms.

God made man in his own image and now mankind remakes himself in the image of his greatest creation (image), the computer. If God's perfection is represented by the number seven and man's imperfection by the number six, then the Cyborg will be a five according to the descending order of being; the creature is never equal or greater than the creator but always a little lower. [\[9\]](#)

Glorious Reduction!

[www.probe.org/machinehead-from-1984-to-the-brave-new-world-order-and-beyond/](http://www.probe.org/machinehead-from-1984-to-the-brave-new-world-order-and-beyond/)

## **Hyperreality**

An old tape recording commercial used to say, "Is it real or is it Memorex?" By championing the superiority of recording to live performance the commercial creates hyperreality, a reproduction of an original that appears more real than reality, a replacement for reality with a reconstructed one, purported to be better than the original.

Disneyland serves as an excellent example by creating a copy



of reality remade in order to substitute for reality; it confuses reality with an illusion that appears real, "more real than real." Disney anesthetizes the imagination, numbing it against reality, leaving spectators with a false or fake impression. Main Street plays off an idealized past. The technological reconstruction leads us to believe that the illusion "can give us more reality than nature can."

Hyperreality reflects a media dominated society where "signs and symbols" no longer reflect reality but are manipulated by their users to mean *whatever*. Signs recreate reality to achieve the opposite effect (metastasis); for example, in Dallas I must travel west on Mockingbird Lane in order to go to East Mockingbird Lane. Or, Facebook invites social participation when no actual face to face conversation takes place.

Hyperreality creates a false perception of reality, the glorification of reduction that confuses fantasy for reality, a proxy reality that imitates the lives of movie and TV characters for real life. When reel life in media becomes real life outside media we have entered the high definition, misty region—the Netherlands of concrete imagination—hyperreality!

Hyperreality goes beyond escapism or simply "just entertainment." If that was all there was to it, there would be no deception or confusion, at best a trivial waste of time and money. Hyperreality is getting lost in the pleasures of escapism and confusing the fantasy world for the real one, believing that fantasy is real or even better than reality. Hyperreality results in the total inversion of society through technological sleight of hand, a cunning trick, a sorcerer's illusion transforming the world into a negative of itself, into its opposite, then calling it progress.

Hyperreality plays a trick on the mind, a self-induced hypnotism on a mass scale, duping us by our technological recreation into

accepting a false reality as truth. Like Cypher from the movie *The Matrix* who chose the easy and pleasant simulated reality over the harsh conditions of the “desert of the real” in humanity’s fictional war against the computer, he chose to believe a lie instead of the truth.

## **The Devil is a Liar**

A lie plays a trick on the mind, skillfully crafted to deceive through partial omission or concealment of the truth. The lie is the

devil’s (devil means liar) only weapon, always made from a position of inferiority and weakness (Revelation 20:3, 8). A lie never stands on its own terms as equal to truth; it does not exist apart from twisting (recreating) truth. A lie never contradicts the truth by standing in opposition to it.

A lie is not a negative (no) or a positive (yes), but obscures one or the other. It adds by revealing what is not there—it subtracts by concealing what is there. A lie appears to be what is not and hides what it really is. “Satan disguises himself as an angel of light” (2 Corinthians 11:14).

A lie does not negate (contradict) or affirm truth. Negation (No) establishes affirmation (Yes). Biblically speaking, the no comes

before the yes—the cross then the resurrection; law first, grace second. The Law is no to sin (disobedience); the Gospel is yes to faith (obedience). Truth is always a synthesis or combination between God’s no in judgment on sin and His yes in grace through faith in Jesus Christ. “For the Law was given through Moses; grace and truth were realized through Jesus Christ” (John 1:17). Law without grace is legalism; grace without law is license.

[www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/](http://www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/)

The devil's lie adds doubt to the promise of God; "Indeed, has God said, 'you shall not eat from any tree of the garden'?" (Genesis 3:1

NASB) It hides the promise of certain death; "You surely will not die" (Genesis 3:4). The serpent twists knowledge into doubt by turning God's imperative, "Don't eat!" into a satanic question "Don't eat?"

But it is Eve who recreates the lie in her own imagination. "When the woman saw that the tree was good for food, and that it was a delight to the eyes, and that the tree was desirable to make one wise, she took from its fruit and ate; and she gave also to her husband with her, and he ate" (Genesis 3:6).

Sight incites desire. We want what we see (temptation). Eve was tempted by "the lust of the eyes" (1 John 2:16) after seeing the fruit, then believed the false promise that it would make her wise. "She sees; she no longer hears a word to know what is good, bad or true." Eve fell victim to her own idolatrous faith in hyperreality that departed from the simple trust in God's word.

## **The Void Machine**

Media (television, cell phone, internet, telecommunications) is a void machine. In the presence of a traditional social milieu, such as family, church or school, it will destroy its host, and then reconstruct it in its own hyperreal image (Simulacra). Telecommunication technology is a Trojan Horse for all traditional institutions that accept it as pivotal to their "progress," except prison or jail. The purpose of all institutions is the promotion of values or social norms, impossible through the online medium.

Media at first appears beneficial, but this technology

transforms the institution and user into a glorified version of itself. The personal computer, for example, imparts values not consistent with the mission of church or school, which is to bring people together in mutual support around a common goal or belief for learning and spiritual growth (community). This is done primarily through making friends and forming meaningful relationships, quite simply by people talking to each other. Values and social norms are only as good as the people we learn them from. Values must be embodied in order to be transmitted to the next generation.

Talking as the major form of personal communication is disappearing. Professor of Communications John L. Locke noted that "Intimate talking, the social call of humans, is on the endangered species list." People prefer to text, or phone. Regrettably, educational institutions such as high schools and universities are rapidly losing their relevance as traditional socializing agents where young people would find a potential partner through like interests or learn a worldview from a mentor. What may be gained in convenience, accessibility or data acquisition for the online student is lost in terms of the social bonds necessary for personal ownership of knowledge, discipline and character development.

An electronic community is not a traditional community of persons who meet face to face, in person, in the flesh where they establish personal presence. Modern communication technologies positively destroy human presence. What philosopher Martin Heidegger called *Dasein*, "being there," (embodiment or incarnation) is absent. As Woody Allen put it, "90 percent of life is showing up." The presence of absence marks the use of all electronic communication technology. Ellul argued, "The simple fact that I carry a camera [cell phone] prevents me from grasping everything in an overall perception." The camera like the cell phone preoccupies its users, creating distance

between himself and friends. The cellphone robs the soul from its users, who must exchange personal presence for absence; the body is there tapping away, but not the soul! The cell phone user has become a void!

## **The Power of Negative Thinking**

According to popular American motivational speakers, the key to unlimited worldly wealth, success and happiness is in the power of

positive thinking that unleashes our full potential; however, according to obscure French social critics the key to a meaningful life, lived in freedom, hope and individual dignity is in the power of negative thinking that brings limits, boundaries, direction and purpose.

Negativity gives birth to freedom, expanding our spiritual horizons with possibilities and wise choices, which grounds faith, hope and

love in absolute truth, giving us self-definition greater than our circumstances, greater than reality of the senses. To freely choose in love one's own path, identity and destiny is the essence of individual dignity.

According to French social critics Jacques Ellul and Herbert Marcuse, freedom is only established in negation that provides limits

and boundaries, which tells us who we are. Technological hyperreality removes all natural and traditional limits in the recreation of humanity in the image of the cyborg. The transhuman transformation promises limitless potential at the expense of individual freedom, personal identity and ultimately human dignity and survival.

[www.probe.org/into-the-void-the-coming-transhuman-transformation/](http://www.probe.org/into-the-void-the-coming-transhuman-transformation/)

All limitless behavior ends in self-destruction. Human

extinction looms over the technological future, like the Sword of Damocles,  
threatening humanity's attempt to refit itself for immortality in a grand explosion (nuclear war), a slow poisoning (ecocide) or suicidal regressive technological replacement. Stephen Hawking noted recently that technological progress threatens humanity's survival with nuclear war, global warming, artificial intelligence and genetic engineering over the course of the next 100 years. Hawking stated, "We are not going to stop making progress, or reverse it, so we must [recognize] the dangers and control them."

In asserting "NO!" to unlimited technological advance and establishing personal and communal limits to our use of all technology,  
especially the cell phone, computer and TV, we free ourselves from the technological necessity darkening our future through paralyzing the will to resist.

After we "JUST SAY NO!" to our technological addictions, for instance, after a sabbatical fast on Sunday when the whole family turns off their electronic devices, and get reacquainted, a new birth of freedom will open before us teeming with possibilities. We will face unmediated reality in ourselves and family with a renewed hope that by changing our personal worlds for one day simply by pushing the off button on media technology we can change the future. Through a weekly media fast (negation) we will grow faith in the power of self-control by proving that we can live more abundant lives without what we once feared absolute necessity, inevitable and irresistible. "All things are possible with God" (Mark 10: 27). When we exchange our fear of idols for faith in the Living God the impossible becomes possible and our unlimited potential is released that will change the world forever!

I see trees of green, red roses, too,  
I see them bloom, for me and you  
And I think to myself

What a wonderful world.

I see skies of blue, and clouds of white,  
The bright blessed day, the dark sacred night  
And I think to myself  
What a wonderful world.

The colors of the rainbow, so pretty in the sky,  
Are also on the faces of people going by.  
I see friends shaking hands, sayin', "How do you do?"  
They're really sayin', "I love you."

I hear babies cryin'. I watch them grow.  
They'll learn much more than I'll ever know  
And I think to myself  
What a wonderful world.

"[I]f man does not pull himself together and assert himself .  
. . then things will go the way I describe [cyborg  
condition]." – Jacques Ellul

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# **Machinehead: From 1984 to the Brave New World Order and Beyond**

*Wherever the survival of humanity is threatened we find the work of Satan. In the previous century that was Fascism, then Mutually Assured Destruction during the Cold War. Today, Satan hides behind the ascendancy of the global Empire of Technology: assimilation of humanity into the machine, creating a new planetary being: the Cyborg. I believe people*

*best understand large conglomerates when personalized, such as, referring to the Federal Government as "Uncle Sam," so I have chosen to name the Brave New World Order: Machinehead!*

## **Post-Orwellian World**

Say good bye to Orwell's nightmare world of 1984! [\[1\]](#) And welcome to Machinehead: the Brave New World Order and beyond!

Machinehead is what I call the technological idol or the planetary being taking shape in the convergence of human and computer intelligence, a global cyborg. "Machine" is defined as *one global system with many subsystems*.

Experts already recognize the global system as a superorganism, one life-form made of billions and billions of individual parts or cells like an anthill or beehive, with one mind and one will. Thus, the global machine consists of millions of subsystems interfacing one over-system. Mankind acts as agent for the global machine's ascendancy, creating a technological god in its own image.

The suffix "head" refers to the *divine essence* as in "Godhead" (Forasmuch then as we are the offspring of God, we ought not to think that the Godhead is like unto gold, or silver, or stone, graven by art and man's device. Acts 17: 29). Machinehead is the replacement of all traditional views of God with the new Living God of the Machine, best illustrated by the recent movie *Transcendence* (2014), which depicts the computer's awaking to consciousness in one mind and will, the Singularity!

Two prophets of modernity plead in dire warning for us to reconsider modern faith in expansive government and escalating technological acceleration. The first and most notable was master political satirist and critic George Orwell (1903-1950), famous for *Animal Farm* and *1984*, and the second, English literatus Aldous Huxley (1894-1963), author of *Brave*



*New World (BNW)*.

Orwell envisioned the end of history in the all-powerful political dictatorship of *Oceania* marked by perpetual war, omnipresent government surveillance, thought control, and the ubiquitous media projection of Big Brother.

Orwell gave us the foundation of the current age in Cold War politics, but does not serve as guide to the future, which belongs, if humanity allows it, to the apparent benign technophilia of *Brave New World* that follows upon Orwell's cruel political combat boot in the face!

## **The Cold War Era and 1984**

Orwell divided his fictional geopolitical borders into three grids: *Oceania*, *Eurasia* and *Eastasia*, shadowing accurately Cold War divisions between Western and Eastern Bloc countries allied behind NATO (*Oceania*) and Warsaw pact nations (*Eurasia*), leaving the Third World (*Eastasia*) as pawns (proxy wars) for interminable power battles between the two Super Powers (Super States). Perpetual war characterized normative relations between the super states in *1984* with the objective to further consolidate the State's power over its own citizens. The threat of war inspires fear in the population and offers government the opportunity and justification for further largesse and control. War insures a permanent state of crisis, leaving the population in desperation for strong leadership and centralized command and control.

The wars of *1984* were a side note to the main thrust of the novel, omnipotent government control. The novel introduced the world to the ominous character Big Brother. The central drama takes place in *Airstrip One*, the capital of *Oceania*, formerly London, England, where Winston Smith the protagonist struggles to maintain his dignity as an individual, under the crushing gears of Fascist government.

Popular criticism asserts that Orwell had Stalinism in the cross hairs in his novel. However, that interpretative ruse acts as an escape clause for the West to disavow any participation in totalitarianism. Most Americans falsely assume that *1984* applied to the Soviet Union and not NATO. Eurasia (the Eastern bloc) was a mere literary foil. Orwell's social criticism applies to all forms of totalitarianism, especially the subtle power structure of the West hidden behind democratic rhetoric, media bias, and an acute lack of national self-criticism. *Oceania* was Orwell's analogy and commentary on the future of the West after World War II. The NATO alliance, founded in 1949 the same year Orwell published *1984*, was the target of Orwell's criticism—not the Soviet Union.

## ***Brave New World Order in the 21<sup>st</sup> Century: The Imperial Machine***

Huxley's novel *Brave New World* foresaw a techno heaven on earth that knows nothing of wars, political parties, religion or democracy, but caters to creature comforts, maximization of pleasure and minimization of pain; total eradication of all emotional and spiritual suffering through the removal of free choice by radical conditioning from conception in the test tube to blissful euthanasia.

Television was the controlling technology in *1984*, so in *BNW* control is asserted through media, education and a steady flow of *soma*—the perfect drug and chemical replacement for Jesus. "Christianity without tears" was how Mustapha Mond the World Controller described soma. "Anybody can be virtuous now. You can carry at least half your morality around in a [pill] bottle." [\[2\]](#)

Spiritual perfection commanded by Jesus, "Be ye perfect, even as your heavenly father is perfect" (Matthew 5:48), will be given to all through genetic programing, sustained through

chemical infusion and mental conditioning (propaganda). If 1984 was about power for the sake of power, *BNW* emphasizes the kinder, gentler technological dictatorship that does not promise happiness, but delivers it to all whether they want it or not!

Brave New World Order amounts to technological totalitarianism, analogous to Huxley's "World State" motto: "Community, Identity, Stability."[\[3\]](#)

The "imperial machine" as it has been called by political scientists acts outside the traditional political process and in tandem with it when needed with no central geographical location or person or groups with any discernable hierarchical structure that directs it; the United States, Great Britain, United Nations, The People's Republic of China or The European Union are not the power brokers of 21<sup>st</sup> century Empire, but its pawns.

Technological Empire rules as an all-encompassing, all-pervasive power, shaping human destiny in its own image.

## **Transvaluation of Man and Machine**

A titanic transvaluation (reversal in the meaning of values) between superstructure (intangible ideological system: beliefs, convictions, morality, myth, etc.) and infrastructure (tangible urban development: roads, buildings, houses, cars, machines, etc.) begun with the Industrial Revolution will finally be complete some time during the 21<sup>st</sup> century. Infrastructure replaces superstructure. Technology has become our belief, religion and hope, what was once a means (technology) to an end (human progress) has replaced the end with the means. Technology replaces humanity as the goal of progress; technology for technology's sake not for the good of mankind or God's glory.

The reversal of meaning is found everywhere in postmodern society beginning with the death of God and unfolding in lock step to the death of man, progress, democracy and Western Civilization; concomitantly paired with an equal ascendancy of all things technological, until the machine ultimately replaces humanity.

Marxist regimes were fond of calling their systems “democratic” or “republic” such as *the People’s Republic of China* despite the fact that the *Dictatorship of the Proletariat* bears the opposite meaning. The majestic word *Liberal*, once meant freedom from government interference and rule by inner light of reason in the seventeenth century, had come to be synonymous with government regulation and planning by the twentieth century.

The cruelest irony in the transvaluation process is that the triumph of mankind over nature and tradition in the modern world has resulted in his replacement by the machine. Humanism of the modern period promoted the Rational as ideal type of Man. This ideal was already adapted to the machine as *1984* and *Brave New World* illustrated through the removal of faith and the attenuation of human nature to mechanical existence. French Intellectual Jacques Ellul argued further that “This type [of man] exists to support technique [technological acceleration] and serve the machine, but eventually he will be eliminated because he has become superfluous . . . the great hope that began with the notion of human dominance over the machine ends with human replacement by the machine.”[\[4\]](#)

## **The Devil’s Logic**

What we fear will happen is already here because we fear it; it will overtake us according to our fears; it will recede according to our love. (1 John 2)

Human Replacement does not necessarily mean total human extinction, a cyborg race that fundamentally alters human

nature will cause a pseudo-extinction—meaning part of humanity, the Machine Class, those most fit for technological evolution will ascend to the next stage, leaving the great majority behind. The movie *Elysium* (2011) offers an excellent illustration: the technological elite, who reap all the benefits from technological advance control the earth from an orbiting space station. H. G. Wells in his famous novel *The Time Machine* painted a similar picture of human evolution that branched into two different species: the hideous cannibalistic Morlocks, “the Under-grounders,” their only principle was necessity, feeding off the beautiful, yet docile Eloi, “the Upper-worlders,” whose only emotion was fear.[{5}](#)

When fear dominates our thinking, love is absent from our motives. To say, “It is necessary” in defense of technological practice, abdicates choice, giving unlimited reign to technological acceleration, i.e. abortion, government surveillance, or digital conversion. “Fear” and “necessity” are the devil’s logic. Necessity imposes itself through fear of being left behind by “technological progress.”

Necessity is not the Mother of Invention, but the Father of Lies! New technology becomes necessity only after it is invented. There is no conscious need for what does not yet exist. Technological need establishes itself through habitual use creating dependence and finally normalcy in the next generation who cannot relate to a past devoid of modern technological essentials.

“Thy will be done on earth as it is in heaven,” serves as our mandate, if we wish to create a future of universal love and empathy instead of universal speed and memory.

Knowledge without wisdom leads to disaster. “Where is the wisdom lost in knowledge?”[{6}](#) Wisdom is the loving use of knowledge. Love counsels limits to knowledge for the liberation of all. Fear dictates limitless necessity, enslaving all.

A choice faces us. Say “yes!” to God and “no!” to *limitless* advance. Otherwise mankind faces replacement by the new digital god: Machinehead!

## Notes

1. George Orwell, *1984* {[New York: HBJ, Inc., 1949](#)}, 17)
2. Aldous Huxley, *Brave New World* (New York: The Modern Library, 1932), 285.
3. *Ibid*, 1.
4. Lawrence J. Terlizze, *Hope in the Thought of Jacques Ellul* (Eugene, OR: Cascade, 104-105).
5. H.G. Wells, *The Time Machine* (New York: Bantam, 1982 [1895]).
6. T.S. Eliot quoted in Huston Smith, *The World's Religions: Our Great Wisdom Traditions* (San Francisco: Harper, 1991, 5).

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# What is Technology?

*Dr. Lawrence Terlizze uncovers a disturbing new view of technology: not as neutral, but a way of life that objectifies everything, including people.*

## The Neutrality View

Most people take a favorable view towards technological progress; new cars, cell phones and computers – what’s not to like? They embrace technological innovation as a plus despite the suspicions of questionable things like cloning, genetic engineering and nuclear weapons. But what is technology anyway? Do we really understand this all-embracing



phenomenon directing human history? We often take for granted that we think we know the answer when in fact the meaning of the greatest social mover of all times remains elusive. When it comes to defining technology we are beset with the problem of defining more than just a word, but a concept and whole way of life and worldview.

The typical definition of technology these days says technology is neutral, suggesting that technology is nothing more than tools that people use as needed. Technology is a means to an end and nothing more. All objects are separate and disconnected. They are neutral and value-free, right? Tables, chairs, and light fixtures have nothing to do with each other and express no values in themselves and are completely determined by our use. They are simply objects at our disposal and present no moral problems so long as we use them for good. We can pick up a hammer and use it, then place it back in the tool box when finished. The hammer has appropriate and inappropriate uses. Hitting nails into wood is one of the acceptable uses of a hammer; using it to play baseball is not acceptable. So long as we act as good moral agents we use our technology rightly, or so we think. This definition is so widely accepted that we have trouble ever questioning it. When faced with morally questionable uses of technology we fall back on this old cliché: “technology is neutral,” and that settles all disputes. We are all familiar with this popular view and embrace it to some extent. The problem is not that the cliché is so simple or popular, but that it is so wrong. Philosophers have been telling us for decades now that the neutrality of technology definition is wrong and dangerous because it blinds us to the true nature of technology.

## **The Holistic View**

The second view of the nature of technology, held mainly by philosophers, we call the “holistic view.” This view states that the “neutral view” is false because people hold to it as

a means of justifying every type of technology. The neutrality view blinds us to the true nature of technology, which is not value-free. The lack of understanding regarding the true nature of technology creates a serious problem for a society so heavily influenced by technological development. As sociologist Rudi Volti says, "This inability to understand technology and perceive its effects on our society and on ourselves is one of the greatest, if most subtle, problems of an age that has been so heavily influenced by technological change."[\[1\]](#) Technology is understood as a social system. We can also call it a worldview, a philosophy of life that sees all things as objects, including people. Instead of defining technology as disparate tools unconnected to each other, philosophers have suggested a more comprehensive definition that says technology does not mean neutral objects ready for use at our convenience, but a way of life that informs and controls everything we do. In other words, technology is a belief system with its own worldview and agenda—more like a religion than a hammer.

This belief system is often called the *essence of technology* or *spirit of technology* and cannot be seen in technological objects because we cannot see the entire system by looking at individual parts. We must grasp the spiritual essence before we can understand its technical parts. The "neutrality view" looks only at parts rather than the whole and misses technology's true nature. This is a lot like looking at the tires of your car or its engine parts and thinking you now understand a car from seeing separate pieces of it and never seeing how the whole thing fits together.

The holistic view understands technology as a way of life and spiritual reality that shapes all our thinking. Philosopher Martin Heidegger gives the example of how the Rhine River exists not as a river, but as a source for electricity. Everything becomes stuff ready for usefulness.[\[2\]](#)

Technology really means an interconnected system rather than a



neutral tool. The neutral definition blinds us to the true nature of technology and prevents us from mastering it. Heidegger argued that “we are delivered over to [technology] in the worst possible way when we regard it as something neutral; for this conception of it, to which today we particularly like to do homage, makes us utterly blind to the essence of technology.”[\[3\]](#)

## Technology as Spirituality

The neutrality argument reassures us that we remain in control of our means rather than our means controlling us. It does not allow us to find the essence of technology in everyday technological objects such as cars, computers, or screw drivers and baseball bats; rather, technology is a way of life and thought that creates a universal system. Technology means the grand accumulation of all the different technological parts into a global system.

Technology is a system of interlocking systems. As philosopher Jacques Ellul said, “It is the aggregate of these means that produces technical civilization.”[\[4\]](#) Technology is our modern frame of reference that speaks of the profoundly spiritual and not the strictly technical. If we look at individual everyday technologies we will miss it. Instead we must see past the common objects to the larger global system that comprises technology as a social process. In the technological system both humanity and nature have no separate standing or value outside of technical usefulness. People are simply resources to be used and discarded as needed.

This view reveals the depths to which technology shapes our thinking by informing us and conforming us into the image of the machine, which represents the greatest example of technological thinking. Everything is understood as a machine and should function like a machine including the government, the school, the church and you! Bureaucracy is a social

machine.

The machine is predictable. It has no freedom. It follows mechanical steps, or linear logic. Step one leads to step two, and so forth. Any deviation from its programming causes chaos and possible break down, which is why the machine is the worst possible analogy for human beings to follow. Yet this is the basis of the entire modern conception of life.[{5}](#) People are not machines that can be programmed; to adopt this conception reverses the role between humanity and its machines, making people conform to the image of the machine rather than vice versa. Machines are our slaves. They do what we tell them to do. They have no will, feelings or desires. Philosophers tell us that the natural relationship between people and machines is in a process of reversal so that we are becoming slaves to technology. We may control our individual use of technology but no one as of yet controls the entire system.[{6}](#)

## **Neutrality as Modern Myth**

Nothing can be explained by the neutrality argument, not even the meaning of "neutrality." It is simply not possible for any technology to be neutral; even the most primitive tools such as fire or stone axes take the form of their designers. Every technology bears inherent values of purpose and goals. Fire has value for a particular reason, to clear the land, cook food, keep people warm and ward off dangerous animals. By their very design, all inventions and tools reflects our values and human nature. Philosopher of Science Jacob Bronowski argued that "to quarrel with technology is to quarrel with the nature of man."[{7}](#) Technology is an extension of ourselves and expresses human nature, which is never entirely good or bad, but ambivalent. Our technology reflects who we are and nothing more; it is not divine, it will not save the human race; but neither is it animal, but fully human, whose nature is always ambiguous, capable of great acts of kindness and mercy as well as cruelty and evil. People can

be self-sacrificial and giving and self-destructive and greedy. There will always be good and bad effects to our inventions. They are a double edged sword that cuts both ways and it is our responsibility to discern between the two.

The modern bias in favor of neutrality reveals our protectionist tendencies towards all things technological. How is it that sinful people can produce morally neutral technology? We would not say that about art. "Oh! All art is morally neutral! It is all a matter of how you use it!" Yet the same creative forces go into producing technology as art. Is there anything neutral about the works of Caravaggio, Da Vinci or Picasso? Why then should there be anything neutral about Facebook or MX missiles?

This appears simple enough, but as modern people addicted to our latest toys and novelties we have difficulty admitting we may have a problem. We don't like to think that too much Facebook might be causing young people to be further isolated from the community because they are more accustomed to relate electronically than in person, or that email actually reduces our ability to communicate because of the absence of tone of voice, body language, eye contact and personal presence. TV and film may have a surreal effect on its message, giving it a dream like quality rather than communicating realism.

## **Controlling Technology**

The solution is not to abandon any of the incredible inventions of the modern age, but to recognize their limits. It is the sign of wisdom that we understand our limits and work within them. We should proceed along a two tiered path of questioning and the application of values. Ellul said that "It is not a question of getting rid of [technology], but by an act of freedom, of transcending it."[\[8\]](#) The act of questioning is the first act of freedom; by becoming aware of the problem we can assert a measure of freedom and control. Through

critical questioning we recognize our limits and thus we are able to exercise a measure of control over technology.

We should develop technologies that reflect our values of freedom, equality and democracy. For example, Ellul did envision in the early 1980's the potential use of computer technology in a way that would create a decentralized source of knowledge that would maintain the values of democracy. We know this now as the internet. However, as Ellul also argued technology cannot change society for the better if we don't change ourselves. The computer can also be used to bring in stifling State control.[\[9\]](#) We will never have a perfect technology that has no problems, but we should be visionaries in how we think about technology and the application of our values to it.

Limits serve as a warning to us. It is obvious that society has progressed in many ways thanks to advanced technology, but society's spiritual regression shares the same condition as advancement. We have not become better people because we live in the twenty-first century rather than the nineteenth century. Without a renewed spiritual and moral framework to direct our development and give new purpose to the system, technology may become the source of our own destruction rather than improvement. An inventory of advancement compares starkly with the litany of potential catastrophe. We have eliminated disease, but also created dangerous levels of overpopulation. We live longer and more abundant lives materially, but are pushing the natural world into extinction. We are able to travel quicker and communicate instantly, contributing to world peace and understanding, but have also developed the weapons of war to unimaginable levels of devastation.

Without a moral framework to control technology and understand its ethical limits we will go down a path of losing control of technology's direction, allowing it to develop autonomously. This means it will develop in a predetermined linear direction, like a clock that will inevitably strike midnight

once wound up. That direction as we have seen moves inexorably closer to the mechanization of humanity and nature. With the right value-system we can begin to reassert control. The choice is yours. Where do you want to go?

## Notes

1. Rudi Volti, *Society and Technological Change*, 4th ed. (New York: Worth Publishes, 2001), 3.
2. Martin Heidegger, "The Question Concerning Technology" in *The Question Concerning Technology and Other Essays*, trans. by William Lovitt (New York; Harper, 1977), 16, 17.
3. Ibid., 4.
4. Jacques Ellul, *The Technological Society*, trans. by John Wilkinson (New York: Vintage, 1964), 2.
5. John Herman Randall, Jr. *The Making of the Modern Mind: A Survey of the Intellectual Background of the Present Age* (New York: Columbia University Press, 1976), 227.
6. Lewis Mumford, *The Myth of the Machine; Technics and Human Development* (New York: Harcourt Brace Jovanovich, 1966); Idem, *The Myth of the Machine: The Pentagon of Power* (New York: Harcourt Brace Jovanovich, 1970); Neil Postman, *Technopoly: The Surrender of Culture to Technology* (New York: Knopf, 1992); Lawrence J. Terlizese, *Hope in the Thought of Jacques Ellul* (Eugene, OR: Cascade, 2005).
7. Jacob Bronowski, "Technology and Culture in Evolution," *Philosophy of the Social Sciences* 1. 3(1971): 199.
8. Ellul, *The Technological Society*, xxxiii.
9. Jacques Ellul, "New Hope for the Technological Society: An Interview with Jacques Ellul" in *Et cetera* 40.2 (1983): 192-206.

# Into the Void: The Coming Transhuman Transformation

In the TV show *The Six Million Dollar Man*, Lee Majors played Steven Austin, a crippled astronaut who was rehabilitated through bionic technology that gave him superhuman strength and powers. The show, like so much science fiction, presents us with the dream that technology will enhance all our facilities from sight to memory, hearing to strength, and lengthen our life span to boot. The bionic man represents a fictional forerunner of the transhuman transformation. The Transhumanist school believes that technology will not only enhance the human condition, but eventually conquer death and grant us immortality. Human enhancement technology performs wonders in allowing the lame to walk, the blind to see, the deaf to hear and the sick to be well, but even immortality is out of the reach of technology. In striving to enhance our physical existence we may lose our souls in the process.

In his famous book, *The Abolition of Man* published in the 1940s, C. S. Lewis wrote that modern society is one step away from “the void”<sup>{1}</sup>—“post-humanity,”<sup>{2}</sup> a state of existence from which there will be no return. Lewis argues that when we step outside of what he calls the Tao<sup>{3}</sup>, we lose all sense of value for human life that has always governed civilization. What Lewis calls the Tao, we might call Natural Law or Traditional Morality—that internal moral understanding of right and wrong which God has written on the hearts of all people (Romans 2), the *Logos* by which all things were created (John 1, see especially verse 4).<sup>{4}</sup>

In leaving traditional spiritual values behind, Lewis argues, modern technological civilization has reduced human value to only what is natural, and we have lost our spiritual quality. Modern society has striven to conquer nature and largely succeeded, but at a great cost—with each new conquest, more

losses in human dignity, more of the human spark extinguished. Lewis offers the example of eugenics from his time in the 1930's and 40's.[{5}](#) Eugenics is now a debunked science of racial manipulation and something we know was practiced with particular ferocity in Nazi Germany.[{6}](#) But the driving philosophy of manipulating nature and humanity into something new and final remains prominent. Lewis underestimated the truth of his own prophecy. He thought that maybe in 10,000 years the final leap will be taken when mankind will solidify itself into some kind of inert power structure dominated by science and technology.[{7}](#)

However, the 21st century may prove to be the era of posthumanity that Lewis foresaw in his time. The current movement of transhumanism, or human enhancement, asserts that humanity will eventually achieve a new form as a species through its adaptation to modern computer technology and genetic engineering in order to reach a higher evolutionary condition. Our present state is not final. Transhumanism derives from Darwinian doctrine regarding the evolution of our species. Evolutionary forces demand that a species adapt to its environment or become extinct. On this view, many species experience a pseudo-extinction in which their adaptation gives way to another kind of species leaving its old form behind. Many evolutionists believe this happened to the dinosaurs on their way to becoming modern birds and that humanity faces the same transformation on its way up a higher evolutionary path.[{8}](#) Primates evolved into humans so humans will eventually evolve into something higher (posthuman).

## **Metaman**

Our present condition will give way to the cyborg (which is short for cybernetic organism) as we join our bodies and minds to technological progress. Transhumanists believe that because Artificial Intelligence (computing power) advances at such a rapid pace, it will eventually exceed human intelligence and

humanity will need to employ genetic engineering to modify our bodies to keep pace or become extinct. Therefore, the cyborg condition represents humanity's inevitable destiny.

The two predominant pillars in transhumanism revolve around Artificial Intelligence (AI) and genetic engineering. One represents a biological change through manipulating genes. The other presents the merging of human intelligence with AI. The biological position (through use of genetic engineering) claims that through transference of genes between species, we eradicate the differences and create a global superorganism that encompasses both kinds of life—the natural and the artificial. Biophysicist Gregory Stock states that once humanity begins to tamper with its genetic code, and the codes of all other plants and animal species, that “the definition of ‘human’ begins to drift.”[{9}](#) Through genetic engineering we will transform the human condition by merging humanity with the rest of nature, thereby creating a planetary superorganism. A superorganism operates like a bee hive or an anthill as a collection of individual organisms united as a living creature. Stock calls this Metaman, the joining of all biological creatures with machines, making one giant planetary life form. This superorganism encompasses the entire globe.

Transhumanism presupposes that no distinction exists between humanity, nature or machines. Metaman includes humanity, all it creates, and also the natural world. It acknowledges humanity's key role in the creation of farms and cities, but includes all natural elements, such as forests, jungles and weather. Metaman includes humanity and goes beyond it.[{10}](#) Stock envisions a greater role for genetic engineering in redefining biological life as different species are crossed. Humanity may now control the direction of its evolution and that of the entire planet.

Stock states that through “conscious design” humanity has replaced the evolutionary process.[{11}](#) This leads us to Post-Darwinism where people have supplanted the natural order



with their own technological modification of humanity and the entire ecological system. "Life, having evolved a being that internalizes the process of natural selection, has finally transcended that process."[{12}](#) Humanity may now, through the agency of technological progress, seize direction of its development and guide it to wherever it wants itself to go. No other species has ever controlled its own destiny as we do.

## The Singularity

A second transhumanist belief argues for the arrival of an eventual technological threshold that will be reached through the advancement of Artificial Intelligence. The argument goes like this: because AI develops at a rapid pace it will achieve equality with the human brain and eventually surpass it. Estimates as to when this will happen range from the 2020's to 2045. The evolutionary process will reach a crescendo sometime in the 21st century in an event transhumanists call "the Singularity."[{13}](#) There will be a sudden transformation of consciousness and loss of all distinction, or Singularity, between humanity and its creations, or the absence of boundaries between the natural and artificial world. Singularity watchers expect that this event will mark the ultimate merging of humans and machines. Renowned inventor and AI prophet Ray Kurzweil states, "The Singularity will allow us to transcend these limitations of our biological bodies and brains. . . . There will be no distinction, post-Singularity, between human and machine. . . ."[{14}](#) As the fictional CEO and mastermind behind a cutting edge AI company in the year 2088 crowed, "My goal is for us to end death as we know it on earth within 50 years—for the essence of every person to live perpetually in an uploaded state. . . . The transhuman age has dawned."[{15}](#)

Both of these positions, one emanating from genetic engineering that seeks to enhance the body, the other from Artificial Intelligence that seeks to supersede and even

supplant the need for bodies, argue for the eventual replacement of humanity with biological-machine hybrids. Metaman and Singularity systems are direct heirs of the modern idea of progress. They present the dawning of a technological Millennium, but they also share a long history dating back into medieval Christendom. In the early Church, technology, or the “mechanical arts,” was never considered as a means to salvation or Edenic restoration. Historian David Noble argues that from Charlemagne to the early Early Modern period technology became associated with transcendence as the means of restoring the lost divine image or *imago dei*.[{16}](#)

Theologian Ernst Benz argues similarly that the Modern technological project was founded on a theological notion in which humanity believed itself to be the fellow worker with God in establishing His kingdom on earth through reversing the effects of the Fall.[{17}](#) We are fellow workers with God; however, this position overemphasized humanity’s role in restoration to the point of becoming a works-based salvation of creation.

Despite the apparent secularity of the super science behind all the technological wonders of our time, the notions of modern progress and transhumanism remain grounded in an aberrant form of Christian theology. Noble summarizes this well when he states, “For modern technology and modern faith are neither complements nor opposites, nor do they represent succeeding stages of human development. They are merged, and always have been, the technological enterprise being, at the same time, an essentially religious endeavor.”[{18}](#) The theology behind Modern technological progress remains rooted in Medieval and Early Modern notions of earthly redemption when the “useful arts,”[{19}](#) which ranged anywhere from improved agricultural methods to windmills, were invested with redemptive qualities and humanity began to assume an elevated status over nature. “In theological terms, this exalted stance vis-à-vis nature represented a forceful reassertion of an

early core Christian belief in the possibility of mankind's recovery of its original God-likeness, the 'image-likeness of man to God' from Genesis (1:26), which had been impaired by sin and forfeited with the Fall."[\[20\]](#) Technology becomes the means of restoring the original divine image. Technological development was expected to reverse the effects of the Fall and restore original perfection. This theology also serves as the impetus behind Millennial thought which believes technology helps humanity recover from the Fall and leads to an earthly paradise. Transhumanism extends this Millennial belief into the twenty-first century.

## **Redeeming Technology**

We are faced with the problem of how to redeem all the advances of technology such as human enhancement without losing ourselves in the process. Idolatry preoccupies our central concern with technology. Biblically speaking, idolatry exalts the work of humanity, including individual human beings, over God; we commit idolatry when we serve the creature rather than the Creator. "Professing to be wise, [we] became fools, and exchanged the glory of the incorruptible God for an image in the form of corruptible man and of birds and four-footed animals and crawling creatures" (Rom. 1:22-23). Theologian Paul Tillich offers a keen and insightful definition of idolatry when he states, "Idolatry is the elevation of a preliminary concern to ultimacy. Something essentially partial is boosted into universality, and something essentially finite is given infinite existence."[\[21\]](#) Transhumanism presents us with a spiritualization of technology believed to grant us immortality through shedding our bodies and adopting machine ones or through genetic engineering that will prolong bodily life indefinitely. Our Modern age defines technology as a source of material redemption by placing finite technical means into a divine position, thus committing idolatry.

In seeking to reconcile technology with a biblical theology we have three possible approaches. *Technophobia* represents the first position. This view contends that we should fear technological innovation and attempt to destroy it. The Unabomber Manifesto offers the most radical, pessimistic and violent expression of this position, arguing for a violent attack against the elites of technological civilization such as computer scientists in an effort to return society to primitive and natural conditions in hopes of escaping the kind of future transhumanists expect. [{22}](#) However, the entire tenor of our times moves in the opposite direction, that of *technophilism*, or the inordinate love for technology. Transhumanism optimistically believes that through technological innovation we will restore our God-like image. A third position asserts a mediating role between over-zealous optimism and radical morose pessimism. [{23}](#)

## **Technocriticism**

*Technocriticism* offers the only viable theological position. By understanding technology as a modern form of idolatry we are able to place it in a proper perspective. Technocriticism does not accept the advances of innovation and all the benefits new technology offers without critical dialogue and reflection. Technocriticism warns us that with every new invention a price must be paid. Progress is not free. With the invention of the automobile came air pollution, traffic and accidents. Computers make data more accessible, but we also suffer from information overload and a free-flow of harmful material. Cell phones enhance communication, but also operate as an electric leash, making inaccessibility virtually impossible. Examples of the negative effects of any technology can be multiplied if we cared enough to think through all the implications of progress. Technocriticism does not allow us the luxury of remaining blissfully unaware of the possible negative consequences and limitations of new inventions. This approach is essential because it demonstrates the fallibility

of all technological progress and removes its divine status.

Technocriticism humanizes technology. We assert nothing more than the idea that technology expresses human nature. Technology is us! Technology suffers the same faults and failures that plague human nature. Technology is not a means of restoring our lost divine image or reasserting our rightful place over nature. This amounts to a works-based salvation and leads to dangerous utopian and millennial delusions that amount to one group imposing its grandiose vision of the perfect society on the rest. Such ideologies include Marxism, Technological Utopianism and now Transhumanism. We are restored to the divine “image of His Son” by grace through faith alone (Rom. 8:29). Technology, serving as an extension of ourselves, means that what we create will bear our likeness, both as the image-bearers of God and in sinful human identity. It contains both positive and negative consequences that only patient wisdom can sort through.

Through criticism we limit the hold technology has on our minds and free ourselves from its demands. We use technology but do not ascribe salvific powers of redemption to it. A critical approach becomes even more crucial the further we advance in the fields of genetic engineering and AI. We do not know where these fields will lead and an uncritical approach that accepts them simply because it is possible to do so appears dangerous. We live under the delusion that technology frees us, but as Lewis warns, “At the moment, then, of Man’s victory over Nature, we find the whole human race subjected to some individual men, and those individuals subjected to that in themselves which is purely ‘natural’—to their irrational impulses.”[\[24\]](#) The famous science-fiction writer Frank Herbert echoes Lewis’s sentiments in his epic novel *Dune*: “Once men turned their thinking over to machines in the hope that this would set them free. But that only permitted other men with machines to enslave them.”[\[25\]](#) Genetic engineering or merging humanity with AI only exchanges one condition for another. We

will not reach the glorified condition transhumanists anticipate. A responsible critical approach will ask, Into whose image are we transforming?

## Notes

1. C. S. Lewis, *The Abolition of Man* (New York: Macmillan, 1947), 77.
2. Ibid., 86.
3. Lewis, of course, did not originate this ancient Chinese concept but rather applied it to universally accessible principles.
4. Ibid., 56.
5. Ibid., 72
6. See [Darwin's Racists: Yesterday, Today and Tomorrow](#) by Sharon Sebastian and Raymond G. Bohlin, Ph.D. Though the German Nazis acted out this hideous ideology to an extreme, eugenics was actually first promulgated in the United States, Germany and Scandinavia around the turn of the 20th Century.
7. Lewis, *The Abolition of Man*, 71.
8. See Dr. Ray Bohlin's article [PBS Evolution Series](#), especially the section entitled "'Great Transformations' and 'Extinction'."
9. Gregory Stock, *Metaman: The Merging of Humans and Machines into a Global Superorganism* (New York: Simon and Schuster, 1993), 165.
10. Ibid., 20.
11. Ibid., 228.
12. Ibid., 231.
13. Ray Kurzweil, *The Singularity is Near* (New York: Penguin, 2005).
14. Ibid., 9.
15. David Gregory, *The Last Christian*, (Colorado Springs: Waterbrook Press, 2010), 102.
16. David F. Noble, *The Religion of Technology* (New York: Knopf, 1997), 9.
17. Ernst Benz, *Evolution and Christian Hope: Man's Concept of*

- the Future from Early Fathers to Teilhard de Chardin* trans., Heinz G. Frank (New York: Doubleday, 1966), 124-125.
18. Noble, *The Religion of Technology*, 4, 5.
  19. Ibid., 14.
  20. Ibid.
  21. Paul Tillich, *Systematic Theology: Reason and Revelation Being and God*, Vol. 1 (Chicago: University of Chicago Press, 1951), 13.
  22. FC, *The Unabomber Manifesto: Industrial Society and Its Future* (Berkeley, CA: Jolly Roger Press, 1995).
  23. See Neil Postman, *Technopoly: The Surrender of Culture to Technology* (New York: Knopf, 1992), 5.
  24. Lewis, *The Abolition of Man*, 79, 80.
  25. Frank Herbert, *Dune* (New York: Ace, 1965), 11.

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## **Avatar: New Technology, Old Message**

James Cameron's hit movie *Avatar* presents dazzling new animation technology and special effects yet an old message and a familiar story: when mankind embraces the pantheist worldview, there will result a oneness with nature. This enlightened union will lead to a life of peace and paradise upon the planet. The title of the movie itself gives its message away—an avatar in Hinduism is an incarnation or the descent of a deity to earth.

One of the most popular gods to appear as an avatar is Vishnu, the preserver god and one of the three main gods in the Hindu Pantheon. There are ten famous manifestations of Vishnu in the sacred writings of Hinduism [Jonathan Smith, ed. *The Harper*

*Collins Dictionary of Religion* (San Francisco: Harper Collins Publishers, 1995), 96.].

In this movie the alien race, the blue-skinned Na'Vi, live in a forest paradise. Although they are technologically primitive, they are superior in their understanding of true reality and nature itself. They live an enlightened existence for they are in communion with Eywa, the "All Mother." Eywa is not a personal being, as with the Christian view of God, but an impersonal force made up of all things. Her force is concentrated in a large sacred tree in the middle of the sacred forest. The Na'Vi become one with Eywa when they attach their pony tails to one of her vines. In one scene, the hero of the movie attempts to warn Eywa of the battle soon to come and asks for her help. However, he is told by his alien wife that Eywa is neutral and does not get involved in issues of justice. In the movie, death is encountered several times and the message is that at death, one's immaterial essence becomes one with Eywa. This is a clear presentation of the pantheist worldview and follows the same theme of such movies as *Pocahontas*, *Dances with Wolves*, and *Fern Gully*.

The conflict occurs when humans arrive on the planet and they, in contrast to the Na'Vi, are ignorant of Eywa and destroy the forest for monetary reasons. The army is portrayed as evil as they attempt to seize the sacred forest by force and mine the valuable minerals under the sacred tree. With primitive weapons, the alien beings defeat the well-armed humans and rescue their planet from destruction.

This movie is an evangelistic call for mankind to embrace the pantheistic worldview and attain oneness with the universe. As a result, peace will come and a harmonic paradise will be created. However, we must seriously question this message of hope. Pantheism is embraced in several countries. We must ask ourselves, have these countries attained a harmonic paradise? One nation that embraces the pantheistic worldview is India. Few would confidently state that Hinduism has brought a



beautiful paradise in that nation.

Another important facet of pantheism is that nature takes precedence over human life. In India and Nepal, I have witnessed cows, monkeys, and even rats receiving better care than humans—and many are even worshipped while human beings remain secondary. Pantheism also denies the reality of this physical world and promotes the belief that the spirit world represents true reality. Thus, it in fact denies true reality. Finally, pantheism denies our humanity because it fails to acknowledge our individuality and sin nature. As a result, true transformation of human nature cannot occur through pantheism.

One of the valuable messages in *Avatar* is the value of caring for nature. This is one of the reasons many are attracted to this movie. The popularity of this pantheistic message points out a shortcoming of the Christian church in modern times. As Christians, we are taught in Genesis to care for creation and not exploit it. However, unlike pantheism, we do not worship nature; instead, we are called to be stewards of what God created. We are to value what God has created and use the earth's resources responsibly, not in a destructive, uncaring manner. We are to develop technology to improve our lives and use it in a manner that reflects care for the creation around us. Scripture provides a clear exhortation to the church to articulate the biblical view of the environment.

*Avatar* is another apologetic for pantheism, perhaps the favorite worldview of Hollywood. However, it presents a false hope for peace and paradise. The Christian message of hope must be proclaimed in a compelling manner if we hope to gain the attention of our culture. The challenge before us is to demonstrate that Christianity offers the true message of hope. First, the miraculous, sinless life of Christ and His resurrection demonstrates He is the Creator, not an impersonal force. The true message of eternal life and forgiveness of sin is found in Christ alone. This message must be defended.

Second, the biblical principles of responsible use of technology and care for the environment must be demonstrated.

Finally, creation is in a fallen state as the Bible teaches. Romans 8:20-21 states, "For the creation was subjected to frustration, not by its own choice, but by the will of the one who subjected it, in hope that the creation itself will be liberated from its bondage to decay and brought into the glorious freedom of the children of God." Creation and mankind await the day nature will be restored fully and the curse of sin will be taken away. This will happen not as a result of embracing the false ideas of pantheism but with the coming of the king of creation, Jesus Christ. Since God will restore creation, we should move in the direction of God's future restoration and carefully manage and restore areas we have destroyed.

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## **MySpace: Parents and Kids Wisely Navigating Online Social Networking**

*MySpace and other social networking sites can be a great boon or a great danger. Byron Barlowe cautions Christian parents of teens to exercise discernment in educating themselves about this important part of life, and look for a redemptive view of this social technology.*

### **Very Big and Very Hip**

*MySpace.com: It's big, it's growing, it's controversial for*

*good reasons, and it's probably touched your family—and you may not even know it. In this section, we answer the questions, “What is it and why do you as a parent need to learn more about protecting your kids without cutting them off?”*

Is *MySpace* a harmless teen hangout or a treacherous trap? Should parents forbid your kids from using *MySpace* or similar social networking Web sites? Kids, do your parents, like, even have a *clue*? And could Christians legitimately use *MySpace* as a mission field?

Controversy about *MySpace* still abounds, even in the fast-moving online world.

Imagine this: Your straight-A, straight-laced teenaged daughter Lori met Aaron online when he visited her *MySpace* profile, a Web page about her. Now she wants to go to the concert with Aaron and his online buddy, “PartyCrasher.” “But mom, we’ve been ‘friends’ for weeks!” she whines. Mom and Dad, what do you do now?

This may not happen to your family, but something similar happened to a Michigan family whose previously trouble-free sixteen-year-old daughter sneaked a flight to the Middle East to rendezvous with a *MySpace* “friend”![\[1\]](#)

So, what is *MySpace*? According to one top ranking site, in August 2007 it became the sixth-most-visited Web site on the Internet,[\[2\]](#) with over 100 million accounts.

A “perfect storm”: millions of people—many of them in their teens and twenties—are connecting with friends, meeting new ones, producing Web pages and video and music, chatting, inviting back and forth to events—even doing business and art—all within virtual communities.

Think of it as a microcosm of the World Wide Web, only much

more easily connected and organized, even by kids. If the Internet was the Wild West, social networking sites—sites like *MySpace*—are becoming its boomtowns.

*Wired* magazine explains, “*MySpace.Com*, the Internet’s most popular social networking site...has helped redefine the way a generation communicates.”[\[3\]](#)

One digital culture watcher wrote, “Community-based websites are the fastest growing sites on the Internet. The teen social ecosystem *MySpace*” is the biggest.[\[4\]](#)

“According to some,” writes Connie Neal, author of *MySpace for Moms & Dads*, “*MySpace* marks a societal revolution as monumental as the industrial revolution.”[\[5\]](#)

*MySpace* owner Rupert Murdoch said, “The average person who is computer proficient is self-empowered in a way they never have [been] before.”[\[6\]](#)

It’s this newfound “empowerment” that rightly concerns parents.

Let’s keep perspective. It’s only natural that real life is replicated online. A Roper study found that “online communities represent a real and growing phenomenon, but one that is dwarfed by interest in *real-world* social networks . . . [like] extended family (94% interest), neighborhood or town (80%), religious or spiritual organization (77%), hobby/interest (69%)” and so forth.

The directors of *BlogSafety.com* have written a handy book entitled *MySpace Unraveled: A Parent’s Guide to Teen Social Networking*. (“Blog” is short for Weblog, an online diary or commentary page.) They write regarding the rapidly evolving topic of teens redefining blogging into more of a social interaction: “As we adults struggle to find the language that describes this phenomenon, teens are speeding ahead, making it up as they go. . . . To them, these sites are just another

tool for socializing.”<sup>{7}</sup> Online and offline distinctions blur into oblivion.

What does this mean for Christian youth and parents?

## Dangers and Solutions

*MySpace and similar social networking sites can be intimidating, even dangerous places. Threats like malicious software, cyberbullying, and sexual predators render it risky for the unprepared and unsupervised. MySpace is being called to account and is responding, but it's primarily up to parents to protect their children.*

One thoughtful parent and Christian school educator responded to the topic as I first did: “Isn't *MySpace* a waste of time or worse, a place where kids think they're experiencing real relationships but are *only* getting a risky situation?” His observation was that the kind of kids who were drawn to *MySpace* already had deep needs that weren't being fulfilled, primarily by parents.

As a parent of three pre-teens, I shared his skepticism. Yet, there's a bigger picture, I found. There's hope, too. Nonetheless, it can be scary, especially in light of greater autonomy for kids who naturally lack discretion.

Let's pretend you find your thirteen-year-old son pacing after something hits the wall with a crash. He blurts out, “They put up a site about me with nasty pictures and said I'm fat! Now everybody is messaging about it. I'm not going to school.” He's been cyberslammed and feels his young world crashing in.

The sense of public humiliation caused by cyberbullying is coupled with the danger that online threats can spill into real life. *MySpace* and similar sites can be intimidating, even dangerous places. As a parent, you may choose to forbid or restrict use of *MySpace* in your home. But I suggest you choose

in an informed, careful way.

Sexual dangers are the best known. Chatrooms and posted messages easily enable such temptations and threats. One recent trip to *MySpace* rendered solicitations to chat online with a sultry woman seeking American servicemen and a gang-type fellow with the screen name “King Pimpin’.”

In 2002, fifteen-year-old Katie Canton met John in a live online chat room. Since he lived far away, Katie felt free to send photos and flirt. Soon John was sending Katie gifts and e-mailing.

This story ended well: Katie testified at John’s trial where he got twenty years in prison. But it had taken Katie participating in a role-playing video game to realize that her behavior and that of her would-be abuser was becoming a classic case of online predation.[\[8\]](#) This is why parental education and supervision are crucial.

Again, some perspective is in order. It’s tempting to view sites like *MySpace.com* as a monolithic online ghetto. A more accurate word picture may be a high school campus. Enter on one side, see the “dopeheads”; enter another, see the “jocks” and cheerleaders. You can’t paint with too broad a brush in assessing it accurately. And students can privately stay in the “nice part of town.”

Concern is warranted, of course. The required minimum age for *MySpace* is fourteen. However, age verification is still technically impossible, largely due to lack of a public track record for minors—ironic, as many of them create public records openly on such sites.

Parents have sued on behalf of their abused daughters, and thirty-four state attorneys general are now demanding more age-verification controls.[\[9\]](#) Meanwhile, *MySpace* has reportedly discovered thousands of members who are convicted sex offenders. “The attorneys general of Georgia, Idaho, North

Carolina, Ohio, Pennsylvania, Mississippi and New Hampshire joined Connecticut in signing a letter to the company asking it to turn over information.”{10}

*MySpace* has responded. The company deleted two hundred thousand “objectionable” accounts.{11} (A similar move by networking site *Friendster* caused a mass exodus, a sad commentary on many of its users.) *MySpace* also began developing parental tracking software, seen by many as just a start.

After hiring a former prosecutor with experience working on sex crimes against children as chief security officer, in January, 2007, *MySpace* donated a breakthrough national database to the National Center for Missing and Exploited Children (NCMEC). It features the first-ever method to match faces and body features like tattoos to often-elusive sex offenders. Providing “a way to filter convicted offenders from younger *MySpace* members, the database combines the records of individual state registries, plus allows searches based on images, which the NCMEC said is important.”{12}

A new senate bill would require—for the first time ever—sex offenders to register their email addresses. Donna Rice Hughes, president of the watchdog/activist group Enough Is Enough, says, “While there is no ‘silver bullet’ for protecting children from Internet dangers, this legislation will help to provide another protective barrier for millions of children. . . . Parents must remain proactive and educated about the safety rules and software tools available.”{13}

Child safety experts agree: parental guidance should be the first and strongest line of defense. Technology continues to outrun ethical reflection in a culture marked by the philosophy, “If it can be done, go for it!” Pragmatism, the myth of progress as always good, lack of a biblical understanding of sin’s pervasiveness and seriousness and sheer greed, drive many of the developments like the *MySpace*

revolution.

But so do innately human needs and God-given desires to connect in a disjointed, wired world. Moral panic regarding teens and technology are nothing new. Doomsday prophecies—partially deserved—ensued with the advent motion pictures, television, and the Internet itself, as Internet researcher Danah Boyd points out.[{14}](#) Wise adaptation is always essential to being “in the world but not of it.”[{15}](#)

## **Hanging Out and Friending**

*Kids hang out on MySpace because virtually everyone they know does, even if they would prefer not to. Another big draw: shared interests. But teens need to appreciate the distinction between acquaintances and true friends, as well as appropriate vs. illegitimate public intimacy while being truly “real.”*

What can make young men cry? Take away their online “space.”

At a conference panel discussion on social networking, four ministry leaders shared nearly identical experiences. Their teens had naturally migrated to *MySpace* with their peers and created profiles there, unknown to these conservative Christian dads. After perusing the site, three of the four outright forbade use of *MySpace*. One by one, they told tales of begging and weeping. One boy sobbed, “Dad, it’s the only time I’ve ever felt cool.”

This is tricky. Parents’ gut reaction may be to minimize or dismiss such a notion. Yet, socialization at this age happens naturally, inevitably, even critically. But online? Here?

But part of the vital process of adolescent socializing is decoding cues about where you fit into the youth culture and *who* you are perceived to be. If kids are deeply grounded in the love of their God and family, it’s just another “place.” It’s when this grounding is missing that *MySpace* can easily



become a platform to present a false self.

Danah Boyd talks about the psychology of publicly viewable social networking: it's performed. "Showing face" becomes key, being "real" has its limits while "friending" online. Note the use of "friend" as a verb there.[{16}](#)

Author Connie Neal lists ways *MySpace* meets the needs of teens in uncanny ways, needs to:

- *Communicate with peers*
- *Try on different styles*
- *See what others are like*
- *Explore their generation's music, art, photography*
- *Hear, view, read stories through media*
- *Flirt*
- *Make friends*
- *Feel included in a group*[{17}](#)

For a time, *MySpace* also seemed unavoidable (it may be "like, so last year" at this point; *Facebook* is reportedly the social site of choice today among youth). Danah Boyd says, "For most teens, it is simply a part of everyday life—they are [at *MySpace*] because their friends are there and they are there to hang out with those friends. Of course, its ubiquitousness does not mean that everyone thinks that it's cool. Many teens complain that the site is lame, noting that they have better things to do.

Yet, even those teens have an account which they check regularly because it's the only way to keep up with the Joneses."[{18}](#)

Social networking relies on clicking to "make" or invite

“friends.” In contrast, an ancient Hebrew proverb states, “A man of too many friends comes to ruin, but there is a friend who sticks closer than a brother.”[{19}](#)

This leads to a deeper question: “What does the term ‘friend’ really mean?” Certainly more than a popularity contest, which many accuse *MySpace* of becoming. Stephanie Bennett, writing for *Breakpoint*, warns, “In many ways these technologies reduce relationship to a commodity—something one possesses rather than a jointly developed friendship.”

Bennett continues:

*Just as the practice of [slow-paced] courtship . . . gave way to dating and the now common practice of objectifying “the other” [or “hooking up” and casual sex], the rules of relationship are . . . being rewritten, and . . . are being shaped by a distinctly media-centered worldview rather than a Christian one.*[{20}](#)

Author C. S. Lewis wrote:

*Friendship arises out of mere companionship when two or more of the companions discover that they have in common some insight or interest or even taste which the others do not share and which, till that moment, each believed to be his own unique treasure (or burden). The typical expression of opening Friendship would be something like, “What? You too? I thought I was the only one.”*[{21}](#)

Perhaps herein lies the greatest appeal of *MySpace*—shared interests. This is not lost on teenagers.

In balance, as one participant in a CNN.com forum wrote, “True friends . . . need to learn when to stop blogging and go across campus to help a friend.”[{22}](#)

C. S. Lewis also wrote, “Eros will have naked bodies;

friendship naked personalities.”[{23}](#) The scantily clad girls parading on certain pages at *MySpace* reflect our culture. Sex is confused with intimacy nowadays; psychological nudity on the Internet is not so different.

Billed as a place to make friends and connect in community, *MySpace*, *Facebook*, *Xanga* and the like may be having the opposite effect, according to one study at San Diego State. It uncovered “an attitude of ‘It’s all about me’” prevailing among college students, the *Chicago Tribune* reported, and “blogging and social networking are ‘playing a big role’ in this.”[{24}](#)

Nonsense, says tech educator Andy Carvin. Social networking largely entails “communities where people reinforce interpersonal relationships through sharing and creating content. . . . [They] want to be a part of something bigger than themselves.”[{25}](#)

Social sites should reflect and enhance relationships, not define them. Challenge the presumption of *instant-friendship-by-mouseclick* with your kids as necessary. Guard against not only physical but “psychological nudity.”

This presents one more important conversational topic for parents training their kids in a biblical worldview marked by serving others, not by parading themselves or sending false signals.

## **Parents and Teens Cooperating**

*Picture yourself or your child in a situation like this: “We’re sorry, Caitlyn, but we just cannot hire you. Your online history isn’t in keeping with our company’s standards.” A growing host of those among the Internet generation with online regrets have walled off their online socializing from prying parents and ended up miring their futures in controversy.*

Another problem with *MySpace* and social sites is what Boyd calls *persistence in digital publics*. Unable to envision the future, kids don't grasp the lasting ramifications of their youthful foolishness, often captured publicly and permanently in cyberspace. "Without impetus," Boyd says, "teens rarely choose to go private on *MySpace* and certainly not for fear of predators or future employers. They want to be visible to other teens, not just the people they've "friended." They would just prefer [that] adults go away. All adults. Parents, teachers, creepy men." [{26}](#)  
Natural teenage feelings indeed.

Boyd continues:

*While the potential predator or future employer doesn't concern most teens, parents and teachers do. Reacting to increasing adult surveillance, many teens are turning their profiles private or creating separate accounts under fake names. In response, many parents are demanding complete control over teens' digital behaviors. This dynamic often destroys the most important value in the child/parent relationship: trust.* [{27}](#)

While hers may sound like a throwback to the 1960s "Question authority!" mantra, Boyd raises a good point. She points out that nowadays adults control youth environments as never before due to fear of abduction and safety issues. "Teens have increasingly less access to public space. Classic 1950s hang outs like the roller rink and burger joint are disappearing while malls and 7-11s are banning teens unaccompanied by parents." [{28}](#) Balancing the imperative to protect against the need to let go is tough.

At the same time, parents, teachers, and youth leaders need to inculcate and model a biblical respect for God-given authority. When kids disrespect this, their Internet privileges should be at stake. Some practical safety tips for

parents:

- *Make sure your kids profile themselves online privately, only to well-chosen friends.*
- *Ask your kids to invite you online as a “friend”—but don’t embarrass them!*
- *Openly discuss your concerns about social networking with your child.*
- *Tour their online space and those of their friends.*
- *Be alert to kids who are very secretive about their Internet use.*
- *Use the computer in a common area of the house.*
- *Monitor mobile online use and set up accountability with meaningful consequences. Yet, too many rules could exasperate older kids.* [{29}](#)

Remember the story of the crying kids who had *MySpace* privileges revoked? One dad took a different approach. He entered into his daughter’s online world and began exploring how to safely navigate and do ministry outreach together. Connie Neal describes *MySpace for Moms and Dads* how she participates with her daughter’s willing friends as spiritual and relational advisor. [{30}](#)

The eventual goal of child-rearing is increasing autonomy and decreasing dependency. Social networking allows kids some autonomy, but they need to be careful in such a public arena. We as parents do well to act knowledgeably, not react out of sheer emotion.

## Redeeming MySpace

*MySpace* has effectively tapped into youth culture *and* human nature. Teens are riding a culture-wide wave of self-expression.

But adult audiences there—and especially at other networking sites—are even bigger. Companies are now glomming onto the model for business purposes. *AnimalAttraction.com*, a social networking site for people who love pets, started as a dating service. Now, you can create a tailor-made social network through services like *Ning*.

Up to ten thousand Virginia Tech students conversed on social sites the day thirty-two were murdered in a shooting rampage.[{31}](#) Presidential candidates are leveraging networking sites today.

Why is this idea so powerful? Could it be that self-expression is a sign of *imago dei*, the image of God imprinted into the soul of everyone? God spoke the world into existence, and we, his highest creatures, create ideas in much the same way. We seem to have an insatiable need to be heard, especially as we emerge into young manhood or womanhood.

What if we're really after much more—eternally satisfying relating that nothing on earth can compare to? For many folks, online "friends" or a bigger-than-life Web identity are just new ways to reach out for what's unreachable in this life. As C. S. Lewis wrote, "If we discover a desire within us that nothing in this world can satisfy . . . we should begin to wonder if perhaps we were created for another world."[{32}](#)

*MySpace* can be surprisingly redemptive. It served as a clearinghouse of mourning for Anna, murdered in cold blood while working at a McDonald's. A youth-led movement to help Ugandan orphans is building to huge proportions.

The head of Internet outreach for one of the world's largest

ministries encourages viewing *MySpace* as a mission field. He tells kids, "It's where your friends and *their* friends are already. Jesus called us to be smart, not safe." As Paul wrote to the Roman church, "Do not be overcome by evil, but overcome evil with good." [\[33\]](#)

If you decide that *MySpace* is not for your family, there are Christian alternatives created for fellowship, evangelism, and discipleship; [Meetfish.com](#) and [MyPraise.com](#) are two.

Rather than "circle the countercultural wagons," why not explore the frontier of online social networking with your child? In a few years, the choice will be theirs, and they will likely default to socializing online as well as offline. They need to learn how to:

- **Be discerning online**, asking things like, "Do I know and trust this person? Will this help me or hurt me?"
- **Reflect Christ online**: "How am I coming across? Does it honor my family and God? Am I teasing with moral compromise?"
- Ask themselves "Who seems lost, alone, afraid? Who needs the gospel?" **That is, see their online life as a calling of Christ.**

Dr. Kathy Koch of *Celebrate Kids* offers a real-life prescription for healthy self-esteem: "Parents and teachers who pay attention to children and teens for who they are and not just what they do, believe in kids' present value and not just their future potential, and encourage kids by celebrating them on more than their birthdays." [\[34\]](#)

Do this while teaching discernment and a thoroughly biblical worldview, and social networking may not be a problem. It could be a blessing in disguise.

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# “How Can Computers Be Used to Share the Gospel?”

I teach technology in a private Christian school. I am putting together a list of How Computers Can Be Used To Share the Gospel of Jesus Christ. Any help or insights you might have would be greatly appreciated.

Since we are really an apologetics ministry and not evangelistic, we're not really in that loop a whole lot. I would suggest you go to Google.com and type in the keywords “internet evangelism” and follow some of those links.

One thing that does come to mind is the fact that almost 100% of young people are online, and they are looking for relationships, even cyber-relationships, and looking for spirituality. So sharing the gospel in the context of developing online friendships in chat rooms (although one has to be waaaay careful there), online discussion groups, and blogging sites (weblogs. . . sort of personal diaries: see [xanga.com](http://xanga.com)) is a good strategy for sharing the gospel online.

I turned to our great friend of Probe, Keith Seabourn, Chief Technology Officer of Campus Crusade for Christ, for help in answering this question.

*I have been using computers and the internet to share Jesus for over 10 years. We in Campus Crusade have found it to be extremely effective. I have several suggestions.*

*1. Visit Tony Whitaker's excellent Online Evangelism guide at [www.web-evangelism.com/](http://www.web-evangelism.com/)*

*2. For stories and statistics over several years, visit my personal website at [www.seabourn.org](http://www.seabourn.org). Specifically, visit my newsletter archives on that site. Many newsletters tell stories. For compilations of responses and statistics, see*

*the End of Year Reports for 1999 or 2001.*

*3. For a broad overview of what Campus Crusade is doing to use the Passion of the Christ movie for online evangelism, see [www.seabourn.org/newsletters/0401/thepassion.html](http://www.seabourn.org/newsletters/0401/thepassion.html).*

*These are some initial ways for you to explore. There are many, many more.*

Hope you find this helpful.

Sue Bohlin

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## **Does the Future Need Us? The Future of Humanity and Technology**

*The voices of some educated, thoughtful people are starting to raise questions about just how human we can remain in the face of developing technology. Don Closson examines those concerns and provides a Christian response.*

In April of 2000, Bill Joy ignited a heated discussion concerning the role of technology in modern society. His article in *Wired* magazine became the focus of a growing concern that technological advances are coming so quickly and are so dramatic that they threaten the future existence of humanity itself. It is relatively easy for baby-boomers to discount such apocalyptic language since we grew up being

entertained by countless movies and books warning of the dire consequences from uncontrolled scientific experimentation. We tend to lump cries of impending doom from technology with fringe lunatics like Ted Kaczynski, the Unabomber. Kaczynski killed three people and injured others in a seventeen-year attempt to scare away or kill researchers who were close to creating technologies that he felt might have unintended consequences.

But Bill Joy is no Ted Kaczynski. He is the chief scientist for Sun Microsystems, a major player in computer technology and the Internet. He played an important role in the founding of Sun Microsystems and has been instrumental in making UNIX (operating system) the backbone of the Internet. So it is a surprise to find him warning us that some types of knowledge, some technologies should remain unexplored. Joy is calling for a new set of ethics that will guide our quest for knowledge away from dangerous research.

Another voice with a similar warning is that of Francis Fukuyama, professor of political economy at Johns Hopkins University. His book *Our Posthuman Future* asks disturbing questions about the potential unintended results from the current revolution in biotechnology. He writes, "the most significant threat posed by contemporary biotechnology is the possibility that it will alter human nature and thereby move us into a "posthuman" stage of history." Once human nature is disrupted, the belief that we are created equal might no longer be tenable causing both civil and economic strife.

There is also a Christian tradition that questions modernity's unrestrained quest for technological power. C. S. Lewis warned us of a society that has explained away every mystery, and the danger of what he calls "man-molders." He states that "the man-molders of the new age will be armed with the powers of an omni-competent state and an irresistible scientific technique: we shall get at last a race of conditioners who really can cut out all posterity in what shape they please."[\[1\]](#) In his book

*The Technological Society*, Jacques Ellul argues that we have come to the place where rationally arrived-at methods and absolute efficiency are all that really matters.[\[2\]](#)

Let's consider the many voices warning us of the unintended consequences of modern technology.

## Three Dangerous Technologies

Bill Joy argues that humanity is in danger from technologies that he believes are just around the corner. His concern is that robotics, genetic engineering, and nanotechnology present risks unlike anything we have created in the past. The key to understanding these new risks is the fact that these technologies share one remarkable potential; that is, self-replication. With all the present talk of weapons of mass destruction, Joy is more concerned about weapons of knowledge-enabled mass destruction. Joy writes:

I think it is no exaggeration to say that we are on the cusp of the further perfection of extreme evil, an evil whose possibility spreads well beyond that which weapons of mass destruction bequeathed to the nation-states, on to a surprising and terrible empowerment of extreme individuals.[\[3\]](#)

Joy believes that we will have intelligent robots by 2030, nano-replicators by 2020, and that the genetic revolution is already upon us. We all have a picture of what an intelligent robot might look like. Hollywood has given us many stories of that kind of technology gone wrong; the Terminator series for example.

The big debate today is whether or not true artificial intelligence is possible. Some like Danny Hillis, co-founder of Thinking Machines Corporation, believe that humans will probably merge with computers at some point. He says, "I'm as fond of my body as anyone, but if I can be 200 with a body of

silicon, I'll take it." {4} The human brain would provide the intelligence that computer science has yet to create for smart robots. The combination of human and silicon could make self-replicating robots a reality and challenge the existence of mankind, as we know it today.

Nanotechnology is used to construct very small machines. IBM recently announced that it has succeeded in creating a computer circuit composed of individual carbon monoxide atoms, a remarkable breakthrough. Although dreamed about since the 1950's, nanotechnology has recently made significant progress towards the construction of molecular-level "assemblers" that could solve a myriad of problems for humanity. They could construct low cost solar power materials, cures for diseases, inexpensive pocket supercomputers, and almost any product of which one could dream. However, they could also be made into weapons, self-replicating weapons. Some have called this the "gray goo" problem. For example, picture molecular sized machines that destroy all edible plant life over a large geographic area.

Surprisingly, Bill Joy concludes "The only realistic alternative I see is relinquishment: to limit development of the technologies that are too dangerous by limiting our pursuit of certain kinds of knowledge."

## **The End of Humanity?**

History is filled with people who believed that they were racially superior to others; Nazi Germany is one obvious example. An aspect of America's uniqueness is the belief that all people are created equal and have rights endowed to them by their Creator that cannot easily be taken away. But what if it became overtly obvious that people are not equal, that some, because they could afford new genetic therapy, could have children that were brighter, stronger, and generally more capable than everyone else? This is the question being asked by Francis Fukuyama in his book *Our Posthuman Future*. The

answer he comes up with is not comforting.

He contends that technology is at hand to separate humans into distinct genetic camps and that we will not hesitate to use it.

Fukuyama gives us three possible scenarios for the near future. First, he points to the rapid acceptance and widespread use of psychotropic drugs like Prozac and Ritalin as an indication that future mind altering drugs will find a receptive market. What if neuropharmacology continues to advance to the point where psychotropic drugs can be tailored to an individual's genetic makeup in order to make everyone "happy," without the side effects of the current drugs? It might even become possible to adopt different personalities on different days, extroverted and gregarious on Friday, reserve and contemplative for classes or work on Monday.

Next, advances in stem cell research might soon allow us to regenerate any tissue in the body. The immediate result would be to dramatically extend normal human life expectancy, which could have a number of unpleasant social and economic implications. Finally, the feasibility of wealthy parents being able to screen embryos before they are placed in the womb is almost upon us. It would be hard to imagine parents denying their offspring the benefit of genetically enhanced intelligence, or the prospect of living longer lives free from genetic disease.

What will happen to civil rights within democratic nations if these predictions come true? Will we end up with a society split into subspecies with different native abilities and opportunities? What if Europe, for instance, is populated with relatively old, healthy, rich people and Africa continues to suffer economic deprivation with a far younger population ravaged by AIDS and other preventable diseases? Interestingly, Fukuyama believes that the greatest reason not to employ some of these new technologies is that they would alter what it



means to be human, and with that our notions of human dignity.

The Christian basis for human dignity is the *imago Dei*, the image of God placed within us by our Creator. Many are questioning the wisdom of chemical and genetic manipulation of humanity, even if it seems like a good idea now.

## Early Warnings

There is a long Christian tradition of looking at the surrounding world with suspicion. Whether it's Tertullian asking the question "what has Athens to do with Jerusalem," or the Mennonite's promotion of simplicity and separation, Christians everywhere have had to struggle with the admonition to be in the world but not of it. Recent advances in science and technology are not making this struggle any easier.

In his work *The Abolition of Man*, C. S. Lewis argued that humanity's so-called power over nature "turns out to be a power exercised by some men over other men with Nature as its instrument." [\[5\]](#) His concern is that the modern omni-competent state combined with irresistible scientific techniques will result in Conditioners who have full control over the future of humankind. He feared that modernism and its ability to explain away everything but "nature" would leave us emptied of humanity. All that would be left is our animal instincts. The choice we have is to see humanity as a complex combination of both material and spiritual components or else to be reduced to machines made of meat ruled by other machines with nothing other than natural impulses to guide them.

Lewis writes:

For the wise men of old the cardinal problem had been how to conform the soul to reality, and the solution had been knowledge, self-discipline, and virtue. For magic and applied science alike the problem is how to subdue reality to the wishes of men: the solution is a technique; and both,

in the practice of this technique, are reading to do things hitherto regarded as disgusting and impious.

The issue of technique and its standardizing effects was central to the thinking of sociologist Jacques Ellul in *The Technological Society*. Ellul argues that as a society becomes more technological it also becomes less interested in human beings. As he puts it, the technical world is the world of material things. When it does show an interest in mankind, it does so by converting him into a material object. Ellul warns that as technological capabilities grow, they result in greater and greater means to accomplish tasks than ever before, and he believes that the line between good and evil slowly disappears as this power grows.

Ellul worries that the more dependent we become on technology and technique, the more it conforms our behavior to its requirements rather than vice versa. Whether in corporate headquarters or on military bases much has been written about the de-humanizing effect of the employment of modern technique.

Primarily, he fears that even the church might become enamored with the results of technique. The result would be depending less on the power of God to work through Spirit-filled believers and more on our modern organization and technological skills.

## **Summary**

Without a doubt, technology can help to make a society more productive, and growing productivity is a major predictor for future increases in standards of living. Likewise, technology results in greater opportunities to amass wealth both as a society and for individuals. Communication technology can help to unify a society as well as equalize access to information and thus promote social mobility.

On the other hand, technology can cause harm to both the environment and individuals. The Chernobyl nuclear power disaster in Russia and the Bhopal industrial gas tragedy in India resulted in thousands of deaths due to technological negligence. The widespread access to pornography over the Internet is damaging untold numbers of marriages and relationships. Terrorists have a growing number of inexpensive technologies available to use against civilians including anthrax and so-called radioactive dirty bombs that depend on recent technological advances.

However, it must be said that most Christians do not view technology itself as evil. Technology has remarkable potential for expanding the outreach of ministries and individuals. Probe's Web site is accessed by close to 100,000 people every month from over one hundred different countries. Modern communications technology makes it possible to broadcast the Gospel to virtually any place on the planet around the clock.

However, in our use of technology, Christians need to keep two principles in mind. First, we cannot give in to the modern tendency to define every problem and solution in scientific or technological terms. Since the Enlightenment, there has been a temptation to think naturalistically, reducing human nature and the rest of Creation to its materialistic component. The Bible speaks clearly of an unseen spiritual world and that we fight against these unseen forces when we work to build God's kingdom on earth. Ephesians tells us "our struggle is not against flesh and blood, but against the rulers, against the authorities, against the powers of this dark world and against the spiritual forces of evil in the heavenly realms."[6](#) Scientific techniques alone will not further God's kingdom. We must acknowledge that prayer and the spiritual disciplines are necessary to counter the adversary.

Second, we need to remember the power that sin has to tempt us and to mar our thinking. The types of technologies and their uses should be limited and controlled by biblical ethics, not

by our desires for more power or wealth. We are to have dominion over the earth as God's stewards, not as autonomous tyrants seeking greater pleasure and comfort.

## Notes

1. C. S. Lewis, *The Abolition of Man*, (New York: The MacMillan Company, 1972), 73.
2. Jacques Ellul, *The Technological Society*, (Vintage Books, 1964), p. xxv.
3. Bill Joy, "Why The Future Doesn't Need Us," *Wired*, April 2000.
4. Ibid.
5. Lewis, 69.
6. NIV, Ephesians 6:11-12.

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# Human Genetic Engineering

*Although much has occurred in this field since this article was written in 2000, the questions addressed by Dr. Bohlin are still timely and relevant. Is manipulating our genetic code simply a tool or does it deal with deeper issues? Dealing with genetic engineering must be done within the context of the broader ethical and theological issues involved. In the article, Dr. Bohlin provides an excellent summary driven from his biblical worldview perspective.*

## What forms of genetic engineering can be done in human beings?

Genetic technology harbors the potential to change the human species forever. The soon to be completed Human Genome Project

will empower genetic scientists with a human biological instruction book. The genes in all our cells contain the code for proteins that provide the structure and function to all our tissues and organs. Knowing this complete code will open new horizons for treating and perhaps curing diseases that have remained mysteries for millennia. But along with the commendable and compassionate use of genetic technology comes the specter of both shadowy purposes and malevolent aims.

For some, the potential for misuse is reason enough for closing the door completely—the benefits just aren't worth the risks. In this article, I'd like to explore the application of genetic technology to human beings and apply biblical wisdom to the eventual ethical quagmires that are not very far away. In this section we'll investigate the various ways humans can be engineered.

Since we have introduced foreign genes into the embryos of mice, cows, sheep, and pigs for years, there's no technological reason to suggest that it can't be done in humans too. Currently, there are two ways of pursuing gene transfer. One is simply to attempt to alleviate the symptoms of a genetic disease. This entails gene therapy, attempting to transfer the normal gene into only those tissues most affected by the disease. For instance, bronchial infections are the major cause of early death for patients with cystic fibrosis (CF). The lungs of CF patients produce thick mucus that provides a great growth medium for bacteria and viruses. If the normal gene can be inserted in to the cells of the lungs, perhaps both the quality and quantity of their life can be enhanced. But this is not a complete cure and they will still pass the CF gene on to their children.

In order to cure a genetic illness, the defective gene must be replaced throughout the body. If the genetic defect is detected in an early embryo, it's possible to add the gene at this stage, allowing the normal gene to be present in all tissues including reproductive tissues. This technique has

been used to add foreign genes to mice, sheep, pigs, and cows.

However, at present, no laboratory is known to be attempting this well-developed technology in humans. Princeton molecular biologist Lee Silver offers two reasons.<sup>{1}</sup> First, even in animals, it only works 50% of the time. Second, even when successful, about 5% of the time, the new gene gets placed in the middle of an existing gene, creating a new mutation. Currently these odds are not acceptable to scientists and especially potential clients hoping for genetic engineering of their offspring. But these are only problems of technique. It's reasonable to assume that these difficulties can be overcome with further research.

## **Should genetic engineering be used for curing genetic diseases?**

The primary use for human genetic engineering concerns the curing of genetic disease. But even this should be approached cautiously. Certainly within a Christian worldview, relieving suffering wherever possible is to walk in Jesus' footsteps. But what diseases? How far should our ability to interfere in life be allowed to go? So far gene therapy is primarily tested for debilitating and ultimately fatal diseases such as cystic fibrosis.

The first gene therapy trial in humans corrected a life-threatening immune disorder in a two-year-old girl who, now ten years later, is doing well. The gene therapy required dozens of applications but has saved the family from a \$60,000 per year bill for necessary drug treatment without the gene therapy.<sup>{2}</sup> Recently, sixteen heart disease patients, who were literally waiting for death, received a solution containing copies of a gene that triggers blood vessel growth by injection straight into the heart. By growing new blood vessels around clogged arteries, all sixteen showed improvement and six were completely relieved of pain.

In each of these cases, gene therapy was performed as a last resort for a fatal condition. This seems to easily fall within the medical boundaries of seeking to cure while at the same time causing no harm. The problem will arise when gene therapy will be sought to alleviate a condition that is less than life-threatening and perhaps considered by some to simply be one of life's inconveniences, such as a gene that may offer resistance to AIDS or may enhance memory. Such genes are known now and many are suggesting that these goals will and should be available for gene therapy.

The most troublesome aspect of gene therapy has been determining the best method of delivering the gene to the right cells and enticing them to incorporate the gene into the cell's chromosomes. Most researchers have used crippled forms of viruses that naturally incorporate their genes into cells. The entire field of gene therapy was dealt a severe setback in September 1999 upon the death of Jesse Gelsinger who had undergone gene therapy for an inherited enzyme deficiency at the University of Pennsylvania.[\[3\]](#) Jesse apparently suffered a severe immune reaction and died four days after being injected with the engineered virus.

The same virus vector had been used safely in thousands of other trials, but in this case, after releasing stacks of clinical data and answering questions for two days, the researchers didn't fully understand what had gone wrong.[\[4\]](#) Other institutions were also found to have failed to file immediate reports as required of serious adverse events in their trials, prompting a congressional review.[\[5\]](#) All this should indicate that the answers to the technical problems of gene therapy have not been answered and progress will be slowed as guidelines and reporting procedures are studied and reevaluated.

## **Will correcting my genetic problem, prevent it in my descendants?**

The simple answer is no, at least for the foreseeable future. Gene therapy currently targets existing tissue in a existing child or adult. This may alleviate or eliminate symptoms in that individual, but will not affect future children. To accomplish a correction for future generations, gene therapy would need to target the germ cells, the sperm and egg. This poses numerous technical problems at the present time. There is also a very real concern about making genetic decisions for future generations without their consent.

Some would seek to get around these difficulties by performing gene therapy in early embryos before tissue differentiation has taken place. This would allow the new gene to be incorporated into all tissues, including reproductive organs. However, this process does nothing to alleviate the condition of those already suffering from genetic disease. Also, as mentioned earlier this week, this procedure would put embryos at unacceptable risk due to the inherent rate of failure and potential damage to the embryo.

Another way to affect germ line gene therapy would involve a combination of gene therapy and cloning.[\[6\]](#) An embryo, fertilized *in vitro*, from the sperm and egg of a couple at risk for sickle-cell anemia, for example, could be tested for the sickle-cell gene. If the embryo tests positive, cells could be removed from this early embryo and grown in culture. Then the normal hemoglobin gene would be added to these cultured cells.

If the technique for human cloning could be perfected, then one of these cells could be cloned to create a new individual. If the cloning were successful, the resulting baby would be an identical twin of the original embryo, only with the sickle-cell gene replaced with the normal hemoglobin gene. This would



result in a normal healthy baby. Unfortunately, the initial embryo was sacrificed to allow the engineering of its identical twin, an ethically unacceptable trade-off.

So what we have seen, is that even human gene therapy is not a long-term solution, but a temporary and individual one. But even in condoning the use of gene therapy for therapeutic ends, we need to be careful that those for whom gene therapy is unavailable either for ethical or monetary reasons, don't get pushed aside. It would be easy to shun those with uncorrected defects as less than desirable or even less than human. There is, indeed, much to think about.

## **Should genetic engineering be used to produce super-humans?**

The possibility of someone or some government utilizing the new tools of genetic engineering to create a superior race of humans must at least be considered. We need to emphasize, however, that we simply do not know what genetic factors determine popularly desired traits such as athletic ability, intelligence, appearance and personality. For sure, each of these has a significant component that may be available for genetic manipulation, but it's safe to say that our knowledge of each of these traits is in its infancy.

Even as knowledge of these areas grows, other genetic qualities may prevent their engineering. So far, few genes have only a single application in the body. Most genes are found to have multiple effects, sometimes in different tissues. Therefore, to engineer a gene for enhancement of a particular trait—say memory—may inadvertently cause increased susceptibility to drug addiction.

But what if in the next 50 to 100 years, many of these unknowns can be anticipated and engineering for advantageous traits becomes possible. What can we expect? Our concern is that without a redirection of the worldview of the culture,

there will be a growing propensity to want to take over the evolution of the human species. The many people see it, we are simply upright, large-brained apes. There is no such thing as an independent mind. Our mind becomes simply a physical construct of the brain. While the brain is certainly complicated and our level of understanding of its intricate machinery grows daily, some hope that in the future we may comprehend enough to change who and what we are as a species in order to meet the future demands of survival.

Edward O. Wilson, a Harvard entomologist, believes that we will soon be faced with difficult genetic dilemmas. Because of expected advances in gene therapy, we will not only be able to eliminate or at least alleviate genetic disease, we may be able to enhance certain human abilities such as mathematics or verbal ability. He says, "Soon we must look deep within ourselves and decide what we wish to become."[{7}](#) As early as 1978, Wilson reflected on our eventual need to "decide how human we wish to remain."[{8}](#)

Surprisingly, Wilson predicts that future generations will opt only for repair of disabling disease and stop short of genetic enhancements. His only rationale however, is a question. "Why should a species give up the defining core of its existence, built by millions of years of biological trial and error?"[{9}](#) Wilson is naively optimistic. There are loud voices already claiming that man can intentionally engineer our "evolutionary" future better than chance mutations and natural selection. The time to change the course of this slow train to destruction is now, not later.

## **Should I be able to determine the sex of my child?**

Many of the questions surrounding the ethical use of genetic engineering practices are difficult to answer with a simple yes or no. This is one of them. The answer revolves around the

method used to determine the sex selection and the timing of the selection itself.

For instance, if the sex of a fetus is determined and deemed undesirable, it can only be rectified by termination of the embryo or fetus, either in the lab or in the womb by abortion. There is every reason to prohibit this process. First, an innocent life has been sacrificed. The principle of the sanctity of human life demands that a new innocent life not be killed for any reason apart from saving the life of the mother. Second, even in this country where abortion is legal, one would hope that restrictions would be put in place to prevent the taking of a life simply because it's the wrong sex.

However, procedures do exist that can separate sperm that carry the Y chromosome from those that carry the X chromosome. Eggs fertilized by sperm carrying the Y will be male, and eggs fertilized by sperm carrying the X will be female. If the sperm sample used to fertilize an egg has been selected for the Y chromosome, you simply increase the odds of having a boy (~90%) over a girl. So long as the couple is willing to accept either a boy or girl and will not discard the embryo or abort the baby if it's the wrong sex, it's difficult to say that such a procedure should be prohibited.

One reason to utilize this procedure is to reduce the risk of a sex-linked genetic disease. Color-blindness, hemophilia, and fragile X syndrome can be due to mutations on the X chromosome. Therefore, males (with only one X chromosome) are much more likely to suffer from these traits when either the mother is a carrier or the father is affected. (In females, the second X chromosome will usually carry the normal gene, masking the mutated gene on the other X chromosome.) Selecting for a girl by sperm selection greatly reduces the possibility of having a child with either of these genetic diseases. Again, it's difficult to argue against the desire to reduce suffering when a life has not been forfeited.

But we must ask, is sex determination by sperm selection *wise*? A couple that already has a boy and simply wants a girl to balance their family, seems innocent enough. But why is this important? What fuels this desire? It's dangerous to take more and more control over our lives and leave the sovereignty of God far behind. This isn't a situation of life and death or even reducing suffering.

But while it may be difficult to find anything seriously wrong with sex selection, it's also difficult to find anything good about it. Even when the purpose may be to avoid a sex-linked disease, we run the risk of communicating to others affected by these diseases that because they *could* have been avoided, their life is somehow less valuable. So while it may not be prudent to prohibit such practices, it certainly should not be approached casually either.

## Notes

1. Lee Silver, *Remaking Eden: Cloning and Beyond in a Brave New World*, New York, NY: Avon Books, p. 230-231.
2. Leon Jaroff, Success stories, *Time*, 11 January 1999, p. 72-73.
3. Sally Lehrman, Virus treatment questioned after gene therapy death, *Nature* Vol. 401 (7 October 1999): 517-518.
4. Eliot Marshall, Gene therapy death prompts review of adenovirus vector, *Science* Vol. 286 (17 December 1999): 2244-2245.
5. Meredith Wadman, NIH under fire over gene-therapy trials, *Nature* Vol. 403 (20 January 1999): 237.
6. Steve Mirsky and John Rennie, What cloning means for gene therapy, *Scientific American*, June 1997, p. 122-123.
7. *Ibid.*, p. 277.
8. Edward Wilson, *On Human Nature*, Cambridge, Mass.: Harvard University Press, p. 6.
9. E. Wilson, *Consilience*, p. 277.

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