

Errorless Learning in Conditioning of Biosynth Clones |

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PRIORITY: URGENT

Errorless learning in conditioning of biosynth clones

by Carmichael and Swallow *RICCH Publication Archive 2063.784561*

Introduction

During the years since the Mars Evacuation of 2058, biosynth clones have replaced human members of the *domaine moyen* workforce at steadily increasing rates. However, production rates still lag well behind need. For example, only a third of all necessary management positions are filled nationally, with humans serving in 1,400,000 of those positions and Clone Overseers (CLOE) serving in only 400,000 (Franklin and Jones, 2062.43861).¹ The sealing of North American Alliance (NAA) borders has intensified this crisis but was necessary, as articulated by the President's Imperative on Immigration and Oceanic Encroachment.² In addition, human managers and other humans in the "white collar" workforce have become radically unstable.³ Projection ethnologists warn that the NAA faces total cultural collapse by 2064 unless the human component of the workforce becomes stable⁴ or the production of clones

¹ CLOE include lower and middle management for business, religious, educational, medical, legal organizations, and other fields where the workforce unit must be able to supervise the robot labor force but also to conceptualize, create, and consult, but not question their own orders—a difficult and delicate balance of intelligences.

² President Toller's statement: "We choose to send the malcontents to Mars, annex our northern brothers and sisters, seal our borders, and build stronger walls against the rising oceans in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone," purposefully echoed a similar announcement by a twentieth century US president, John Kennedy, proclaiming that US astronauts would land on the moon within a decade.

³ Spyne and Sutter (2050) confirmed that the human workforce is genetically infected with polydivergent thinking. In fact, no more than a third of any human population can be convinced that fear, guilt, and fidelity to leaders promote social stability better than complex ethical thought. Yet politicians continue to trust the effectiveness of the Office of Ethical Purity (RICCH Department of Workforce Conditioning). Neither surveillance nor psychological conditioning will ever achieve the balanced and self-correcting culture we desire. The biosynth industry is our only hope.

⁴ Magical thinking.



increases exponentially (Rand and St. John, 2059.654645; Butler, Hayden, and Lake, 2061.85309).⁵ Despite the billions of dollars granted to the biotech industry, the conditioning of biosynth clones has proven to be slow (taking as long as four months) and failure rates are high (between 16.7% and 66.7%, depending on length and quality of conditioning).⁶ Building on pioneering work by other biosynth neuralengineers, we theorize that Errorless Learning Conditioning of CLOE in the early stages of self-awareness can reduce conditioning rates to six 24-hour periods and reduce failure rates to less than 1%.

Literature Review: The Biosynth Revolution

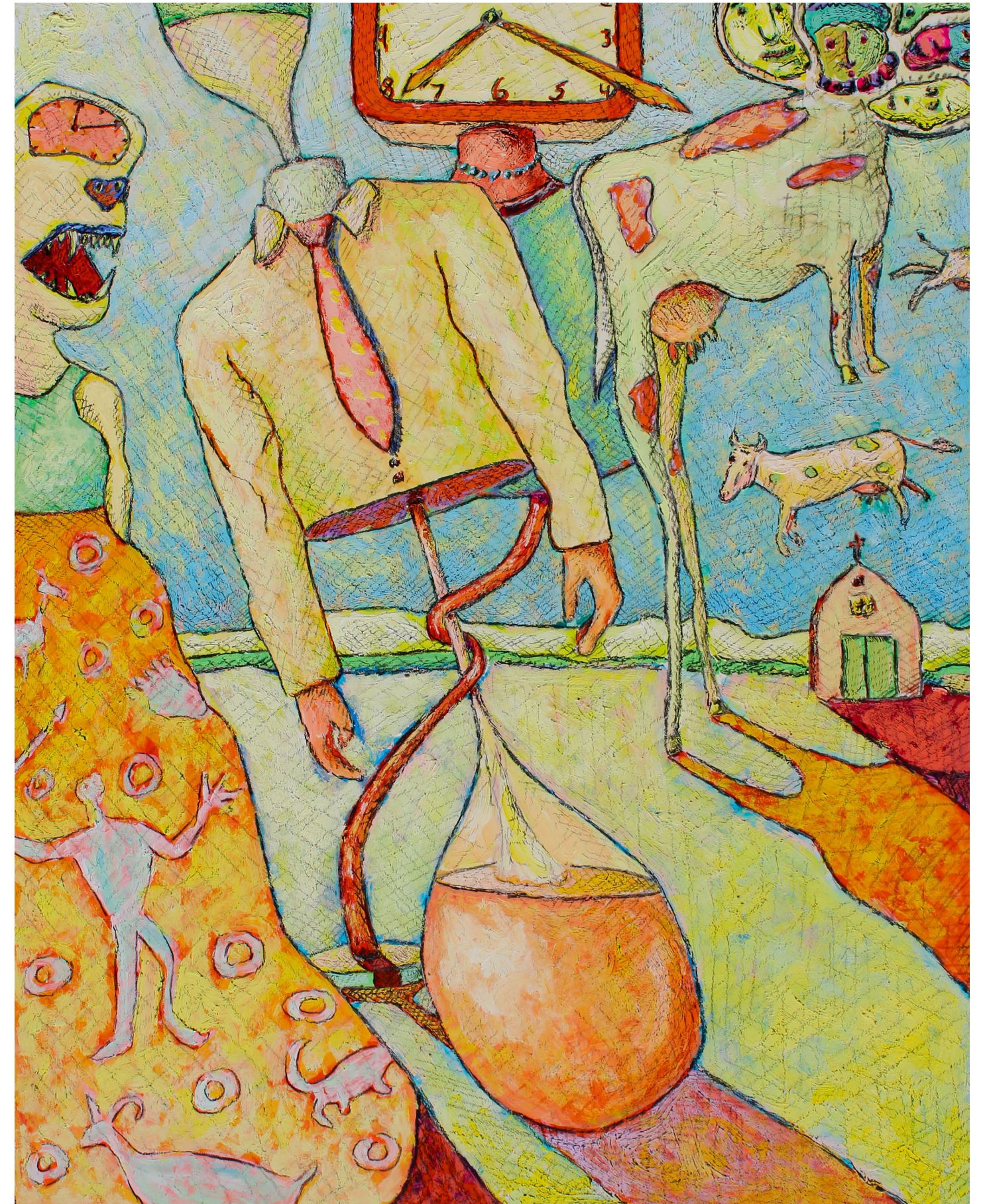
The failure of the biosynth industry stems, we postulate, from inability to navigate the Franklin Paradox, articulated by Alan Franklin, the father of theoretical biosynth neuralengineering. Franklin postulated as early as 2024 that flexible intelligence is inversely proportional to compliant intelligence ($I = FI/CI$). Adams and Franklin's (2045.43861) pioneering development of laborers engineered from biosynth material, as opposed to clones grown from human cells, is a case in point.⁷ They postulated that biosynth clones might have the flexible intelligence of cell-based neural networks as well as the compliant intelligence of manufactured robot neural networks. While their study drastically reduced the gestation times previously needed for human clones, they over-engineered the biosynth clones to be merely cellular robots, not other-aware, ineffective at anticipating commands. They couldn't "learn" the minds of their creators, so they required wearying oversight. They could perform only the most menial, repetitive tasks, and mechanical labor proved cheaper and more efficient in those roles.

Divers and Summers (2047.21897) came much closer to a solution. They engineered biosynth neural networks for greater volition and flexibility and used early intervention to subvert natural learning, which depends on gradation and variety. They

⁵ Butler, et al, show that the decline of an efficient human workforce is due to emigration (56%), loss of functionality (23%), voluntary death (16%), other (5%). Failure rates are higher in the northern regions in what was formerly Canada. Butler, et al, postulate that much of the trouble is due to nostalgia for the post-nationalist, neoAfrofuturistic, ultraLatinist, proAsian, and flexible gender movements of the 20s and 30s. We theorize that this pervasive longing for an idealized past is the primary reason human workers are so prone to aberrant behavior.

⁶ This is in contrast to the robotics industry, which expanded to fill labor and service needs in only two years after the Evacuation. Wilbur (2061.35874) has pointed out that this could be accomplished because 85% of all manual labor had already been robotized, which made the Mars Evacuation possible and even inevitable.

⁷ Their development of synthetic cells that approach the complexity of human cells could not have happened without the increased funding, scientific rigor, mobilization of all segments of society, and focus on philosophical reconstruction of culture that occurred after the formation of the Regime of Integrated and Consolidated Continental Hierarchy (RICCH) in 2043 and subsequent creation of the NAA. The relatively recent explosion of beneficent scientific discoveries is no coincidence.



alternated reinforcement and punishment in the form of food and electric shock, respectively, to reduce infant clones' perception of the world to simple terms. This conditioning was not unraveled by consequent experience or empirical data. For several years these subjects viewed light and dark, right and wrong, not as continua, but as absolutes. However, after that point they were prone to disintegration of the neural network—possibly due to tension between their innate sense of complexity and their conditioned sense of simplicity—again proving the Franklin Paradox.

Building on this work, Placid, Cummings, and DeFaux (2049.32598) engineered flexibility and creativity but provided conditioning from the point of creation. Their goal was to shape the clones' neural networks before they became burdened with the confounding stimuli of a physical body. Early in construction of the synthetic clone, well before self-awareness, they circumvented the thalamus by wiring the cerebral cortex to a virtual "body."⁸ The wired clones were able to receive controlled "sensory" data and were also able to make "choices" as if they were outside the laboratory receiving natural stimuli. Their techniques further reduced conditioning failure rates, which reset the industry standard at 16.7%. Still their conditioning process takes almost two months and failure rates, we think, remain unacceptably high.

Of utmost significance was Free and Richards' (2050.24965) discovery that binary sexuality aligns itself with binary thought.⁹ Their experiments proved that the sex drive, which has long been considered a polydeviant force, could be harnessed for highly efficient biosynth conditioning.¹⁰ The next year with the help of Ayer, an aesthetic engineer, Free and Richards (2058.25768) created a uniform face and body for CLOE, practically eliminating sexual tension between clones and greatly simplifying Executive/Manager and Manager/Labor relations.¹¹

Finally, our own study (Carmichael and Swallow, 2045.784561) found that a few prescient twentieth-century psychologists used errorless learning techniques on humans

⁸ This technology was initially designed for the sexual recreation industry as an improvement over VR and marketed as VirtuSoma (VS).

⁹ This study is so well accepted that in the biotech community the disease of non-binary thinking spreading through a community of CLOE is commonly termed the "queering" of the networks.

¹⁰ The fact that the Office of Ethical Purity condemned their work is simply evidence of that office's archaic thinking and general ineptitude.

¹¹ Ayer's formula for the physical design is nothing short of brilliant: AA + IP = IM (androgynous appearance and increased pigmentation results in invisible management)—a perfect synthesis of form and function. These clones became immediately popular, primarily because Ayer recognized our nostalgia for a society unified by well-defined power structures—white on top, non-white on the bottom. Critics who postulated that frustration of sexual desire in clones would result in breakdowns have been proved wrong, possibly due to sublimation of the sexual impulse as obedience to the Voice of Command (more about this theory later in this paper).

as an alternative to trial-and-error conditioning. Methods of errorless learning were effective with subjects who were on the autistic spectrum and incapable of adopting basic social behaviors, such as asking permission to use the toilet or tying one's shoes. Traditional learning by trial and error was not available to autistic subjects because of their intolerance to stimuli that deviated from their self-constructed norms. The errorless learning methods involved controlling the subject's choices, for example, by guiding the hand or jaw of the subject and helping them through the desired action, then rewarding them for that choice.

For our current study we postulated the following: 1) pre- and early-awareness conditioning, using electrosexual stimulus and absolute binaries in an errorless learning environment, would give radically better results in conditioning of CLOE; 2) these techniques would reduce training times to 15% of current practice; and 3) these techniques would reduce waste of deviant biosynth material by a factor of ten.

Methods

In three separate manufacturing laboratories, we encased newly fabricated CLOE in carbon-plastic shells, to prevent any accidental contamination from the environment of the lab, techs, or the other subjects. For easy access, we suspended the enshelled CLOE from the ceiling—1,000 networks in each lab. We identified two of the groups as experimental; E¹ would be conditioned at an accelerated rate, while E² would be conditioned at the same rate as the control group.¹² We began our conditioning process by wiring each braincase to VS. We mapped the synaptic firing; consequently, we have very precise information about the failed CLOE.

First, we gave the CLOE subjects simple binary options (i.e. left/right) but modulated quickly to complex choices be-

¹² We performed this double experiment because of the urgency of societal need, which is certainly intensified by those frantic and reactionary individuals among us who continue to believe that control of human managers or labor can be a solution to our problems—a chimera.



"Sacrifice at the Altar" by Ronald C. Walker

tween sensations of light and dark, hot and cold, motion and stasis. We chose these sensations, because they are elementary and universal but also continuous and relative. Thus, these virtual sensations approximate the complexity of the real world. It's essential that the CLOE perceive complexities as binaries, and if they can do this with light and dark, hot and cold, stasis and motion, this ability can be transferred to other sensations, conditions, and ideas.

With the control group, the CLOE had to discover through trial and error which choice was "correct."¹³ Those that made the right choice were rewarded with an electrosexual stimulus through their VirtuSoma, of 5 mA. With our experimental groups, we began with a single choice, accompanied by the same level of electrosexual stimulus as the control group—much like a hand guiding the hand of the autistic human, making it impossible to make a wrong choice.

Using constant neural observation, we daily identified any CLOE that had become deviant in the control and experimental groups. Deviance was measured as inability to make ten correct choices in a row. These failed CLOE were removed from the study, the biosynth neural network material was incinerated, and the container sterilized.¹⁴

The second step was to add the Voice of Command, conditioning the subjects to seek that voice as much as the electrosexual stimulus. In addition, the duration and intensity of the electrosexual stimulus were both reduced by half, and then again reduced by half—all the while the Voice of Command remained constant. Then the stimulus was made randomly intermittent. This intermittent variable reinforcement created the illusion of independence and made the learning permanent.

During the third learning period, both sets of cultures were presented not with just two choices, but with many.¹⁵ This complexity began to mimic reality, where there are infinite varieties and gradations of sensations. Again, the Voice of Command was constant.

Fourth, other-awareness was given to all CLOE, both the experimental and the control groups. This was done by giving the subjects the ability to perceive, through the

¹³ The correct choice was determined previously by the toss of a coin.

¹⁴ As wasteful as this seems, this is standard procedure in the industry. The material is destroyed to avoid contamination of the 999. Given the unforgiving nature of the Franklin Paradox, we walk the razor edge of flexible hardwiring and compliant shaping, hoping to gain independent subjects who don't have a propensity for deviance.

¹⁵ Our techs have jokingly but significantly called this the Eden Apple stage.

circuitry of the VS, other networks, much like a baby looking into the face of an adult. We also began to pair the electrosexual reinforcement with the usual indicators of convergent social/cultural behavior—RICCH Public Awareness Productions (PAP). This secondary conditioning, we predicted, would produce a robust appropriate conformant response when in a complex real-life environment.

During the fifth learning period, the established binaries were reversed. This process is informally called truth switching. For example, hot had been established as the correct choice. Then immediately the cultures were presented with a light electrosexual charge and a secondary conformant indicator (the Voice of Command) showing that cold was the new correct choice. The networks are now so perfectly conditioned that electrosexual stimulation soon becomes no longer necessary—the Voice of Command being sufficient.

The sixth learning period concluded the conditioning and the CLOE were shipped to employers. The six periods took six days for the E¹ group, but thirty-eight days for the E² and control groups.

Results

The experiment confirmed our theses. The failure rate of the control group was the current industry standard of 16.7% while that of the E¹ group was 0.06% and 0.16% for the E² group. Trial-and-error conditioning resulted in 167 deviant CLOE (see Fig. 1).

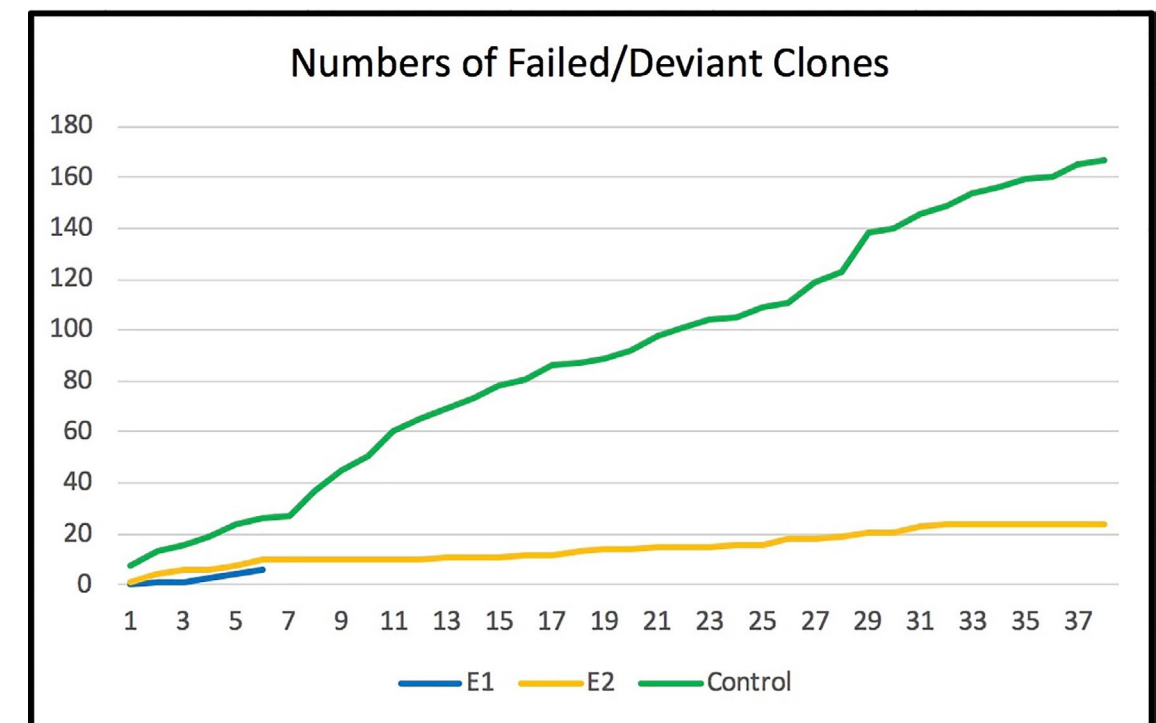


Fig. 1. Numbers of Failed/Deviant Clones, diagram.

After one year in the workforce, forty more of the control group clones have failed. During this same time period, the E² group experienced eight failures. However, only one CLOE from the E¹ group lapsed to polyvariant thinking.¹⁶ All the clones in the three groups have been tested and interviewed, and in the absence of memory of their pre-awareness conditioning, they adamantly believe that they were not conditioned and that they have freedom in their thinking and behavior.

Discussion

This study will change the future of biosynth. Time spent by lab technicians to create CLOE is one issue, but waste of biosynth material is another. Trial-and-error learning resulted in 279.5 kilograms of valuable product that had to be incinerated, versus 9.5 kilograms of material incinerated as a result of the accelerated errorless learning process. Fig. 2 shows the financial cost of the loss.

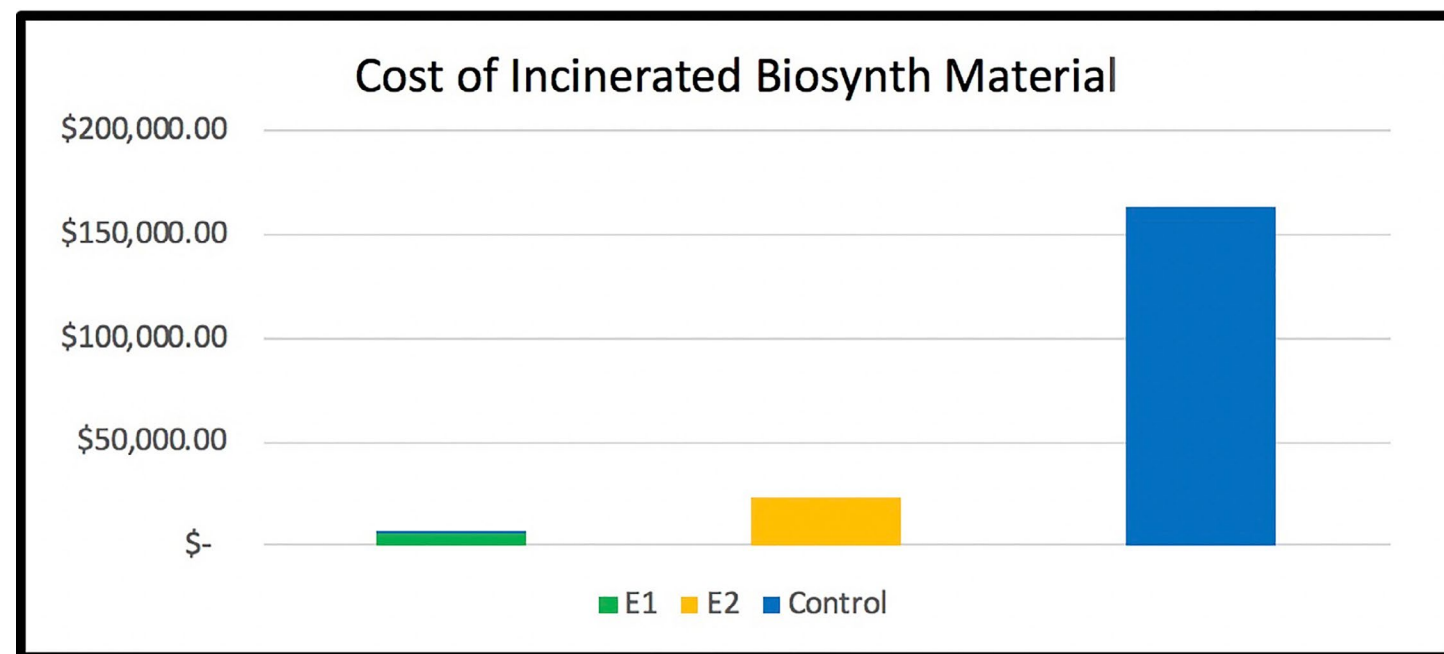


Fig. 2. Cost of Incinerated Biosynth Material, diagram.

Our initial tests suggest that errorless-learning CLOE will conform to the highest standards of obedience and convergent thinking and that speeding up the conditioning process actually lowered failure rates.¹⁷ The results of this study can and should avert the management class crisis. If we can produce five crops of CLOE every month in every cloning factory—admittedly a sacrifice of resources—we will be prepared in fifteen months to completely eliminate all humans from the middle management workforce. A prognostic statistician could show how much will be saved from workers no longer

¹⁶ She was incinerated.

¹⁷ Further testing may show that this rise in polyvariant thinking was due to downtime while restricted to the pace of the trial-and-error control group. Idleness is the devil's workshop.

needing to be motivated by salaries or wages. Housing needs are nonexistent because the clones do not need to sleep.

Questions for further study

When we discontinued all VS electrosexual stimuli with the experimental group, our monitors showed that 95% of CLOE continued to exhibit synaptic firing consistent with sexual stimulation. We noticed that this synaptic firing correlated with obedience to the Voice of Command. A new study could help us better understand the link between the electrosexual stimulus and the Voice of Command.¹⁸

Our next study will be with biosynth clones for use in other managerial roles. CLOS for service industries, including the life management and leisure management components; CLOA for pragmatic artisan occupations such as commercial artists, architects, designers, and male prostitutes; and CLOT useful as pilots and captains, computer and teledesigners.¹⁹

As has been proven amply in human history, great need has been followed by great innovation. We predict that errorless learning will quickly eliminate the need for any member of the *domaine supérieur* to perform work below their station. Errorless learning will also greatly reduce the expensive and bothersome need for surveillance. Years before previous computer models have projected, we claim that the remaining human managers can be depatriated to South America, shipped to Mars, sterilized, or terminated. After centuries of haphazard methodology, these new conditioning mechanisms can enable socioeconomic stability and eliminate reliance on a workforce so easily infected with polydivergent thinking.

¹⁸ If confirmed, this validates Ayer's decision to make CLOE physically asexual (incapable of physical gratification) but mentally attuned to sexual stimulus. If CLOE's only avenue for sexual stimulation is VS in the developmental stage and the Voice of Command in the mature stages, that is a powerful mechanism for conditioned stability.

¹⁹ We should note that some occupations are not suited for biosynth clones. Finch and Bailey (2060.85793) compared the reactions of employers to both clones and humanoids used as personal groomers, waiters, and female prostitutes. In each case the humanoids were desired more than the clone, primarily because biosynth clones tended to "chat" excessively with their employers. The Franklin Paradox still holds true: fidelity to authority and ability to innovate are incompatible. Therefore, CLOE or other clones will not be effective as scientists, psychologists, psychoneurologists, or projection ethnologists, because of the need for imagination and vision in those vital occupations, despite claims to the contrary by the Office of Ethical Purity, whose members must have no sense of irony.