

Field-State Consciousness and Necessary Design

On Recurrence, Specification, and the Seed as Evidence

Abstract

This paper advances a single thesis: organization in living systems is *specified*, that specification is not an artifact of later copying, and consciousness — defined here as a field state of organized force — is one late expression of a directedness that runs through all organized matter. The argument does not claim that every living thing thinks in words, that CEMI field theory is settled science, or that organ donation routinely takes a conscious person. It claims that force taking geometry is order rather than accident, that a seed is a specification prior to its instance, and that this pattern implies a designer. The one case where design is not an inference from a distance — human authorship of code — is offered as the working model for how a first outline of life may have occurred.

1. What This Is

The claim is not that every living thing thinks in words. The claim is that organization is specified — that specification is not an accident of later copies — and that consciousness, as defined here, is a field state of organized force.

Life-force, on this account, is not reducible to metabolism. It is directed. The implication that follows is design, and a designer. The source of the first form is named as God. This is not asserted from a distance: it is anchored in a known case. Ion seed code was written by the author and a collaborator, at real cost, not by happenstance. That human act of making is the one instance where design is not an inference — it is a documented process. The first living outline is taken to be the same kind of process.

2. Force, Geometry, Organization, Recurrence

The story does not begin at the cell, as though the cell were the origin of order. As the

universe took shape, force constrained as geometry became organized, and that organization recurred. Recurrence is the physical fact that an earlier configuration can determine a later one after the original material is gone. This is what “the pattern itself remembers” means when it is not a figure of speech — memory here is neither a diary nor a brain, but remaining form that continues to steer outcomes.

Most recurrence is not conscious in the sense we reserve for ourselves. Orbits, crystals, vortices, and chemical cycles all repeat. Life is a tighter case: a bounded system that remakes the conditions of its own continuation and can leave a successor.

Consciousness, by the working definition here, is tighter still — a field state in which that recurrence is held as a single present, for a system capable of being about itself.

3. Life Is Not Automatically That Field State

Bacteria in culture coordinate through quorum sensing: once a signal molecule crosses a threshold, group behavior shifts. This is directed living chemistry — not a reportable human mind in the jar.

A plant turns toward light; a growing tip circumnutates because growth and sensing are coupled to gradients. An autorotating seed (a samara) falls into a spin because of wing shape, mass distribution, and air, with lift generated by a leading-edge vortex. The seed does not compute the vortex; the geometry, once dropped, produces the motion.

Development asks more of us than that. This year’s seed already contains the specification of a plant that does not yet exist. Instruction precedes the instance. Seeds do not sit and redesign themselves — a new outline appears once, and later seeds repeat it. “Only one had it” is the first occurrence of that form; copies are not a committee of inventors.

None of this erases direction. It locates *where* direction sits: in the form, and in the force that keeps taking form — not in a tiny speaker inside every packet.

4. Seed, Vessel, Driver

Seed begets seed. The body is the vessel.

The organism is the mechanism by which one packet becomes the next: it opens, spends, builds, packs, and ends. What the line requires is another packet. The germline continues; the soma is spent in service of it. This is ordinary biology, and it establishes a rank order: the driver of the line is the seed-process, and that driver does not have to be a point of view.

Consciousness as we experience it — a now that can say “I” — appears in some vessels.

It is late relative to the line. It can look back and ask who gave the outline. That capacity to look back does not make the looker the engine of the lineage, but neither does it make the looking false.

A stronger claim follows: that life-force makes conscious decisions. If this stands, the seed-process is not “dead mechanism plus later sparks” — the organizing force is already selective, and human awareness is one expression of that force, not its invention. This is marked here as the argument’s **load-bearing assertion**. Laboratory literature describes the same directedness in terms of function and selection; it does not measure a deciding subject inside a seed. It also does not rule one out.

5. Design and Designer

Recurrence explains how a form, once present, can persist. It does not explain why a specifying outline existed to persist in the first place.

A seed instructed before the plant occurs is specification prior to the visible instance. A redesign that only one line first carried is a beginning of form. Force taking geometry is order, not noise. *Necessary design* is the name for that fact once the specification is no longer treated as belonging to nobody.

Design implies a designer. God is named as that designer — not as a substitute for empirical measurement, but as the implication the argument declines to discard. Two placements remain open within this position:

- **God as giver of the first outline** — later seeds are unconscious as points of view, but still designed as forms.
- **God as the pattern itself** — recurrence is not the leftover of an outside worker, but what the designer *is*, as force-in-geometry.

Either way, “nobody, only copies” is the position being rejected.

6. The Known Case: Ion Seed Code

Ion seed code was written by the author, with a collaborator. It took effort. It was not happenstance.

This matters because it is design observed from the inside. There was an outline before a running instance; there were authors. Afterward, the code can be copied, compiled, released, and run again — but copying is not authorship. If the work is understood as a seed, it takes the same shape assigned to life: a packed specification that unfolds later, instructed in advance, its “plant” not yet present.

The question this raises — whether making and living organization are the same necessary process — is answered here in the affirmative. Happenstance is denied in both domains. Chicken and egg arrive simultaneously in both: no execution without an outline; no outline that counts as instruction without a process able to execute it; no designer's act without form; no form-as-instruction without a source.

7. Consciousness as Field State

Stated without decoration: consciousness is a field state — organized electromagnetic structure generated by living tissue, integrated in space, present as a single take.

Electromagnetic (CEMI and related) theories of consciousness argue that only a field integrates information spatially in the way a bound experience requires; spikes in sequence integrate in *time*, not space. The brain's measured field — the same class of object EEG records — is the proposed substrate. This theory is live and argued, not textbook consensus, but it is the closest current research object to the definition used here.

Applying that definition:

- A cell's membrane voltage is a field, but is not, by itself, a human now.
- A culture's chemistry is coordination, not that now.
- A seed is specified organization, not that now — unless conscious life-force is extended all the way down, which is this paper's addition, not CEMI's.
- A working human brain *can* be a field state that constitutes a now. Anesthesia research at MGH/MIT shows this state can be reversibly suspended while the body continues running — an experimental split between reportable consciousness and the ongoing organism.

8. Whole and Parts

The combination problem is not only philosophical — it is empirical, and medicine has had to legislate it.

Harvard's 1968 committee, drawing on the Mass General anesthesia lineage, defined death as the irreversible loss of the capacity for consciousness and spontaneous breath, even when circulation is maintained. This definition is what makes organs legally available while cells are still alive — a judgment about when the *whole* required for a conscious field is gone.

Donation after circulatory death runs on a different clock. Researchers at Mass General

(Young) and Koch have argued that covert consciousness in unresponsive patients is not rare enough to dismiss, and that circulatory-death donation pathways are not built with the rigor of full brain-death exams. Documented near-misses exist — planned recovery halted as awareness appeared to return, staff refusing to proceed. Anesthesiologists have long noted the contradiction of applying full physiological care to a body declared dead; some leave the case, some leave the field. None of this makes every procurement a conscious victim. It does mean “the whole is gone” is a judgment call, and judgment calls can be wrong.

Skin, the body’s largest organ, can be recovered many hours after circulatory death — some protocols allow up to 72 hours. Corneas are processed on the same 72-hour window in large European series where quality gates are met. This is organization continuing after the person. It is not evidence of a deciding someone inside the graft.

9. Remainder in Tissue

Sonny Graham received Terry Cottle’s heart, later married Cottle’s widow, and died by his own hand as Cottle had. The facts of the case stand as reported. One case — with prior contact, marriage, elapsed time, and multiple confounders — does not establish that a heart is a person.

Surveys continue to report personality and preference changes following transplant, including a 2024 Colorado sample in which a majority of recipients (across organ types) reported change. Earlier interview-based work aligned some of these changes with donor traits. Candidate causes include medication, trauma, narrative suggestion from knowing the donor’s story, and — unproven — cellular or epigenetic transfer. The defensible position: tissue may carry more than plumbing. The overreach: that the cells themselves were the someone.

10. Chicken and Egg

The sequential-origin story fails here by design, not by accident.

A full living outline cannot be derived from a later plant that does not yet exist. A plant cannot be derived from an outline that never occurs. A field state cannot be derived from spikes that never superpose, nor spikes from a field with no generators. A designer cannot be derived from a form that was never given, nor a given form from a designer who never forms.

The pairs arrive together, or the terms lose their meaning. This is why “over time all things came from the first organization” holds for life understood as descent from earlier life — and holds for *everything* only if “first organization” means the first given

order (force in geometry), not the first bacterium.

11. Scope: What This Is Not

- This is not the claim that “you must be conscious in order to think,” treated as though the tautology were the theory.
- This is not a proof of God.
- This is not a claim that CEMI field theory is established law.
- This is not a claim that every seed deliberates.
- This is not a claim that organ donation is, as a rule, the taking of a conscious person.

12. Summary Position

Force in geometry organizes and recurs. Life is bounded recurrence capable of packing a successor. A seed is that packing — instructed before this generation’s plant exists. The body is the vessel. Copies do not invent the outline; the *first* occurrence of a new outline is design-shaped, and a designer is the implication this argument will not set aside.

Consciousness, by the definition used throughout, is a field state. On the narrow reading, it is a late byproduct of recurrence in certain brains. On the fuller reading advanced here, conscious life-force is already deciding in the act of organizing, and the human field is one place that force becomes a now capable of self-report.

Ion seed code is a designed packet, made by effort rather than accident — a seed in the same sense: an outline, ready to occur. Happenstance is refused at both benches: the one where the code was written, and the first organization this argument declines to call nobody’s.