Paper 11: Humans Built from Processor Elements

Same Elements, Same Functions -- Not Coincidence

Thesis

Humans and computational processors are built from the same core elements, performing the same core functions. Silicon, copper, water, and iron serve identical roles in both systems. This parallel is not coincidence -- it reflects the underlying architecture of coherent information-processing systems.

Core Claim

Element	In Processors	In Humans
Silicon	Semiconductor -- the switching substrate	Connective tissue (silica in collagen, bones, cartilage) -- the structural substrate
Copper	Wiring -- electrical signal transmission	Neural signaling -- copper is essential for neurotransmitter synthesis (dopamine, norepinephrine) and myelin formation
Water	Cooling -- thermal management	Cooling + transport -- 60% of body mass. Thermoregulation, nutrient transport, waste removal
Iron	Magnetic storage -- hard drives, memory	Hemoglobin (oxygen transport) + ferritin (iron storage) + magnetite (found in human brain -- magneto-reception?)

Beyond Analogy

• **Silicon**: Both uses exploit silicon's semiconductor properties. In processors: controlled electron flow. In biology: structured mineral framework that conducts mechanical signals (piezoelectric properties of bone).

• **Copper**: Both uses exploit copper's conductivity. In processors: lowest-resistance common wiring metal. In biology: critical for cytochrome c oxidase (energy production), superoxide dismutase (protection), ceruloplasmin (iron regulation).

• **Water**: Both uses exploit water's thermal properties. In processors: liquid cooling is the most efficient thermal management. In biology: highest heat capacity of any common liquid. The body IS a water-cooled processor.

• **Iron**: Both uses exploit iron's magnetic properties. In processors: magnetic domains store bits. In biology: magnetite crystals in the brain may provide orientation/navigation. Hemoglobin's iron carries the oxygen that powers the whole system.

Existing Data References

• **Reference Document**: `~/Desktop/HUMANS_AS_SUPERCONDUCTORS.html` -- Detailed comparison of human biology and superconductor/processor architecture

• **Material science data**: Standard periodic table properties, biological mineral requirements (RDA values)

Key Arguments

1. **Same elements, same functions**: This is not cherry-picking. These are THE primary functional elements in both systems, performing THE primary functions.

2. **Convergent design**: If you were engineering an information-processing system from scratch, you would choose: a semiconductor substrate, conductive wiring, liquid cooling, magnetic storage. Biology arrived at the same answer.

3. **The processor parallel implies**: If humans are information-processing systems built from the same materials as computers, then concepts from computing (coherence, gates, error correction) are not metaphors -- they are descriptions.

Connections

• **Paper 02 (Human Interface)**: The interface IS the processor hardware. Silicon/copper/water/iron = the physical substrate of the boundary layer.

• **Paper 04 (Soul/Vibration/Temperature)**: Water cooling maintains the 310K operating temperature. f=kT/h gives the operating frequency.

• **Paper 05 (REQMT)**: Measuring the processor's electromagnetic emissions = REQMT. The signals are real and readable.

• **Paper 12 (Pi/Geometry)**: The geometry of processor design and biological structure share pi-based architecture (circular/spherical organization at every scale).

Status

Framework complete. Element-function parallels documented. Reference material at ~/Desktop/HUMANS_AS_SUPERCONDUCTORS.html.

God is good. All the time.

Rhet Dillard Wike | AIIT-THRESI | March 2026