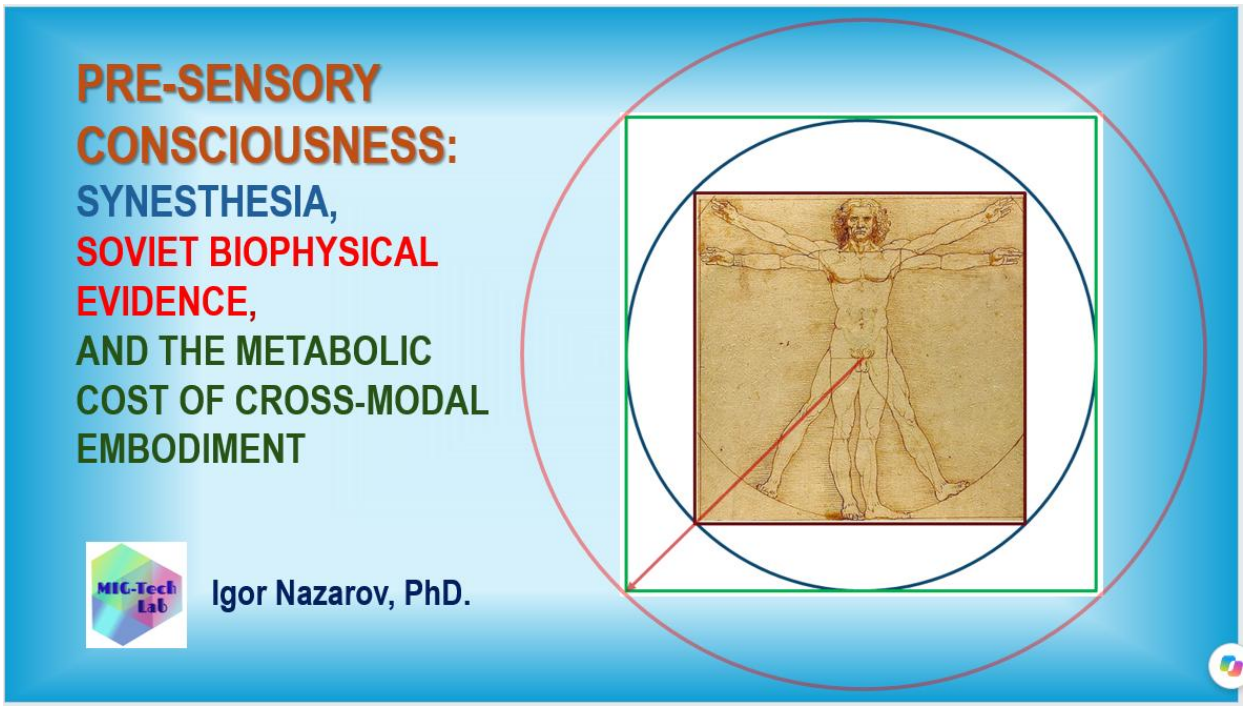


Spoken Transcript:

Good evening, colleagues.

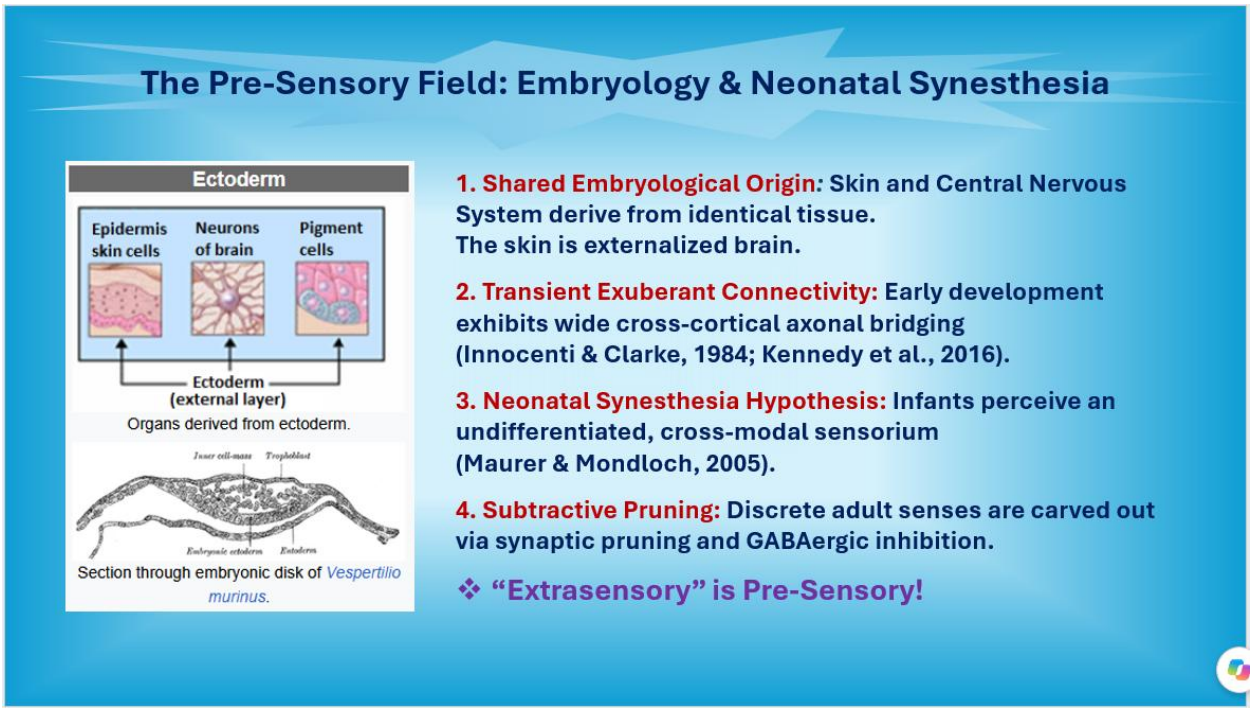
For over a century, mainstream Western science has struggled to integrate so-called “extrasensory” perception into natural philosophy and cognitive science. The standard reaction has been to categorize psi phenomena either as fraud or as an impossible violation of physical laws.

Today, I want to propose an entirely different framework. What if the phenomena we have historically labeled “extrasensory” are not extra-sensory at all? What if they are fundamentally **pre-sensory**?

Based on contemporary developmental neurobiology, Rudolf Steiner's epistemology of the senses, and formerly classified biophysical laboratory data from the Soviet Union, we will examine a unified model: **The Body as a Biophysical Transceiver**.

In telecommunications, a **transceiver** is an instrument that both transmits and receives signals through a shared physical medium. Today, I propose that the living human organism is precisely that: a biological transceiver whose baseline state is an undivided, pre-sensory awareness. We will see that our discrete adult senses are not the primary origin of consciousness, but rather a narrowed, pruned-down interface.

When an individual overrides that narrowing—whether through pathology, extreme mental focus, or disciplined somatic training—the body operates as a high-output instrument. But as the Soviet laboratory data proves beyond doubt: this operation is governed by strict thermodynamics and the conservation of energy. **Sensing is spending**. Every expansion of bandwidth exacts a direct, measurable metabolic cost.



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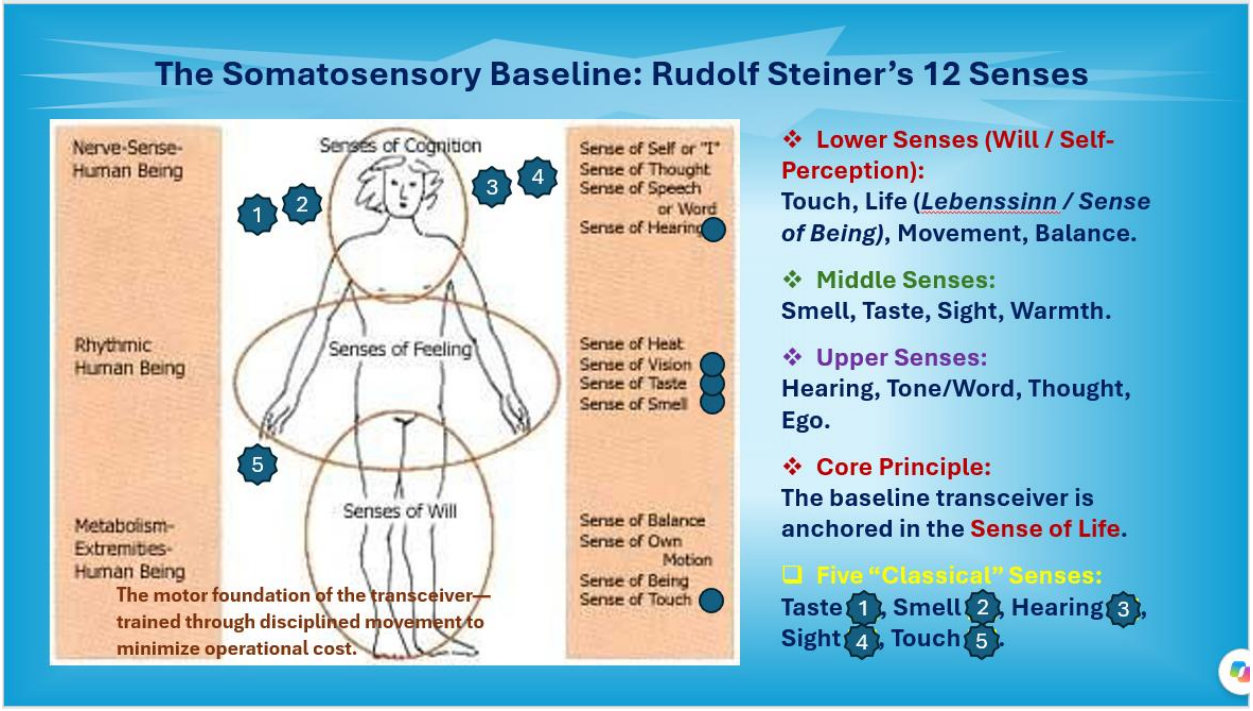
To position this model scientifically, we must return to where human embodiment begins: the prenatal and neonatal state.

First, consider embryology. The entire central nervous system, the retina, and the human epidermis arise from the exact same embryonic germ layer: the **ectoderm**. The skin is quite literally externalized neural tissue; the brain is internalized, folded skin. In the womb, the organism does not possess isolated, modular sensory perceptions. It exists in an undifferentiated, fluid-coupled environment where pressure waves, vibrations, maternal heartbeats, and vestibular movements form a single, continuous somatosensory field.

Second, modern developmental neuroscience confirms that the neonatal brain is structured for total connectivity. Landmark studies by Innocenti and Clarke, and later by Henry Kennedy and colleagues, demonstrated the phenomenon of **transient exuberant connectivity**: mammalian infants are born with extensive axonal bridges directly linking auditory, visual, and somatosensory cortices.

This led Daphne Maurer and Catherine Mondloch to formulate the **Neonatal Synesthesia Hypothesis**. Every human infant begins life as an undifferentiated synesthete—hearing, touch, and vision are seamlessly blended.

How do we become "normal" adults? Through **developmental pruning**. The growing brain systematically eliminates these cross-modal bridges and establishes local GABAergic inhibition to insulate the senses into five discrete, manageable streams. Adult perception is not an addition; it is a subtraction. The adult body is a wideband transceiver that has been deliberately spliced and narrowed to navigate macroscopic space.



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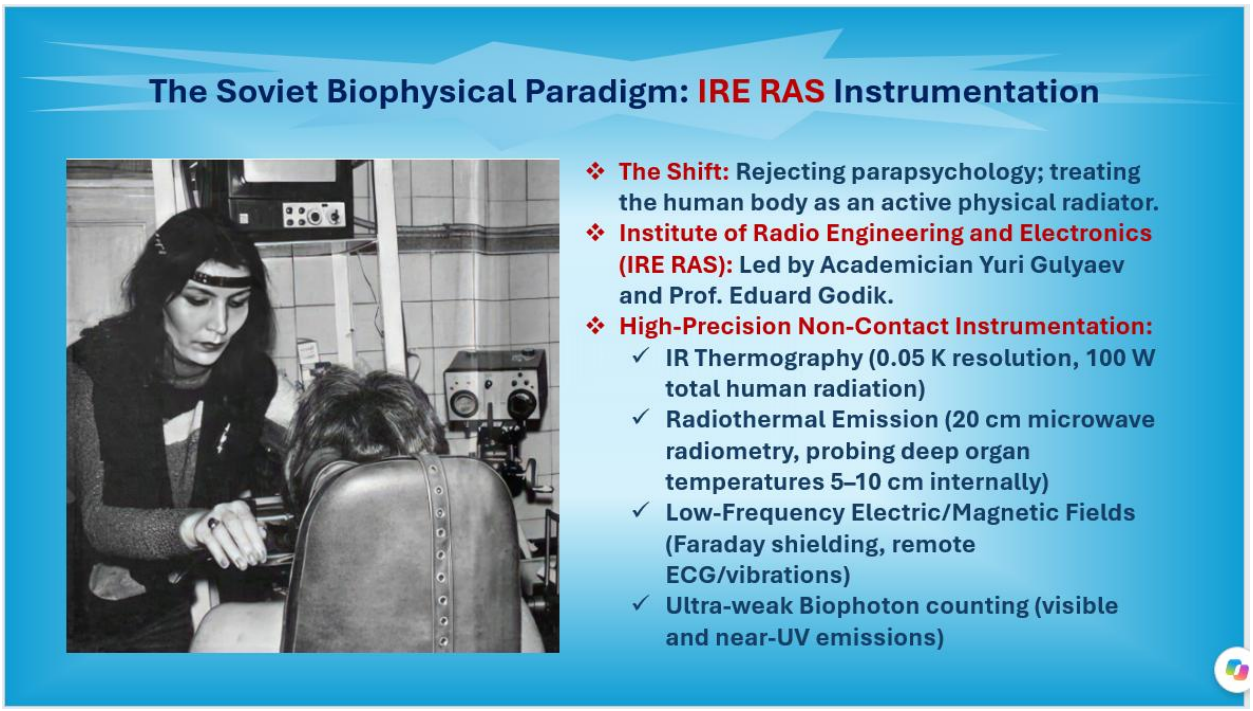
More than a century ago, Rudolf Steiner recognized this developmental architecture and expanded the "classical" five senses into a comprehensive system of twelve distinct senses.

Crucially, Steiner divided these into three tiers, as you see on the slide. At the foundation lie the four lower, or somatic, senses: the Sense of Touch, the Sense of Movement, the Sense of Balance, and the **Sense of Life** (*Lebenssinn*). These lower senses do not point outward to perceive external objects. Their task is to perceive the inner state, the operational homeostasis, and the metabolic equilibrium of the biological organism itself. They are the baseline receivers of the human instrument.

Notice a fundamental bias in classical science: the five traditional senses—even cutaneous touch—were chosen because they serve **feeling and cognition**. They were categorized as passive, observational windows. Beneath them, Steiner placed an entire somatic foundation: the **Senses of Will**—Movement, Balance, and the Sense of Life. These are not about observing an external object; they govern how consciousness inhabits living, moving mass. And as we will see, it is precisely through the discipline of the will in movement that the transceiver's metabolic cost can be brought under control.

When an adult practices dowsing, or engages in ideomotor muscle reading, or feels the subtle pull of an opponent's momentum in martial arts, they are not tapping into an imaginary dimension. They are recruiting this lower somatosensory baseline. They are using the bodily Sense of Life and micro-muscular kinesthesia as an antenna to transduce subtle environmental gradients—whether thermal, electromagnetic, or mechanical—into conscious awareness.

"Normal" development suppresses our awareness of this internal antenna. But what happens when that suppression fails, or when a person forces the bandwidth wide open? To answer that, we turn to the laboratory data of the Soviet Union.



Spoken Transcript:

Why look back at Soviet research? During the Cold War, the study of these anomalies was not a countercultural curiosity; it was an urgent matter of state security and military science. Soviet researchers did not ask philosophical questions about whether psi was “real”. Grounded in dialectical materialism, they asked: What is the physical carrier? What is the biophysical mechanism?

At the Institute of Radio Engineering and Electronics of the Soviet Academy of Sciences (IRE RAS), under the leadership of Academician Yuri Gulyaev and Professor Eduard Godik, scientists built the most sophisticated non-contact biological diagnostics laboratory in the world.

They treated the living human body as a complex emitter of physical fields. They deployed high-speed, highly sensitive infrared thermography capable of 0.05 Kelvin resolution; microwave radiometers at 20-centimeter wavelengths that could read internal organ temperatures at depths of 5 to 10 centimeters; shielded Faraday potential probes for remote electrophysiology; and photomultipliers configured for single-photon counting of ultra-weak biological luminescence.

They demonstrated that every living body broadcasts roughly 100 watts of thermal and electromagnetic power—comparable to a standard household light bulb—dynamically modulated by physiological rhythms. And within this rigorously instrumented environment, they placed individuals who displayed extraordinary, anomalous capacities.

Let us examine them.



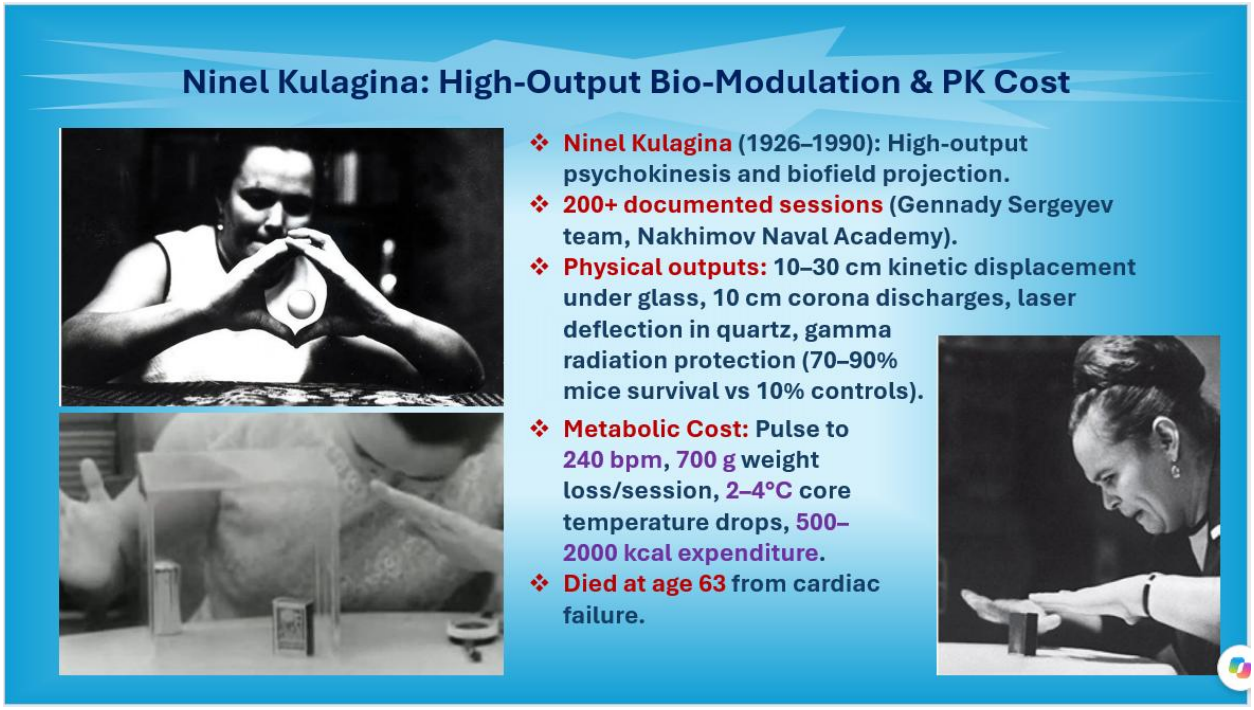
Spoken Transcript:

Our first case study is Rosa Kuleshova, famous throughout the USSR as “the woman who could see with her skin.” Blindfolded with completely opaque screens, Kuleshova could reliably identify colors, read printed text, and discern concealed drawings with her fingertips.

In 1965, Soviet biophysicists Mikhail Bongard and Mikhail Smirnov published findings proving that Kuleshova was not utilizing “mystical rays.” Her skin was responding to microscopic thermal gradients (0.1 to 0.5°C) emitted by different colored pigments, alongside mechanical friction and ink relief. Under testing, this sensitivity extended to her elbows, her nose, and other bodily surfaces.

Mainstream critics dismissed this as an isolated sensory anomaly or parlor trick. But look at the clinical etiology: Kuleshova’s abilities did not appear spontaneously; they emerged following a catastrophic neurological illness—rheumatic arachnoiditis.

Through our developmental lens, the explanation becomes clear: this was **pathological de-pruning**. The severe brain inflammation damaged normal cortical inhibition, unmasking the ancestral, totipotent ectodermal connection between skin and vision. Her whole body resumed its pre-sensory role as a unified optical-tactile transducer. But operating in this unshielded, de-pruned state overwhelmed her physiology; she suffered recurrent brain crises and died of a stroke at only 38 years old.



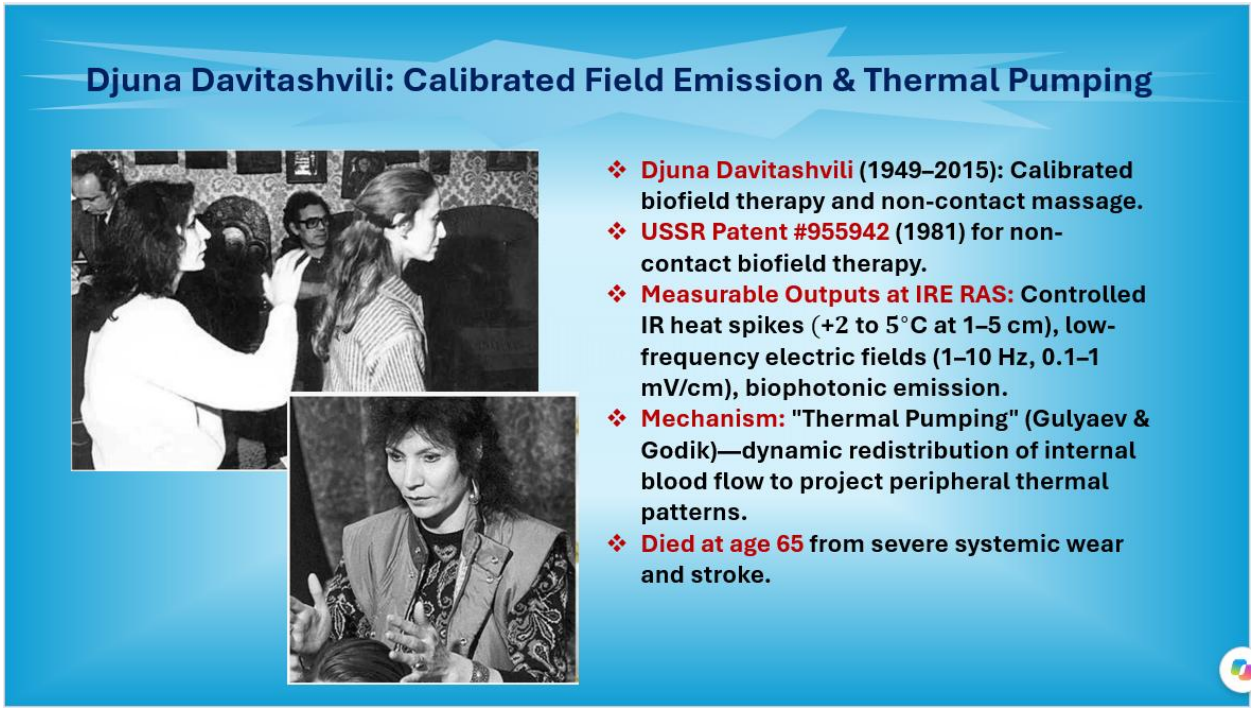
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If Kuleshova represents pathological de-pruning on the receptive side, Ninel Kulagina represents the transceiver forced into extreme, projective transmission.

Over more than 200 laboratory sessions supervised by Dr. Gennady Sergeyev at the Nakhimov Naval Academy in Leningrad, Kulagina repeatedly moved objects under sealed glass domes, deflected a helium-neon laser beam within a quartz crystal, and shielded biological specimens from lethal doses of gamma radiation. My late colleague Dr. Yury Kronn personally witnessed her experiments, which catalyzed his lifelong study of subtle energetic technologies.

Yet the primary lesson of Kulagina's work is not the telekinesis; it is the **devastating metabolic cost**.

During active projection, her heart rate spiked to 240 beats per minute—an extreme, life-threatening ventricular rate. Electrostatic corona discharges sparked 10 centimeters from her hands. A single session burned between 500 and 2,000 kilocalories, causing her to lose up to 700 grams of body weight through profuse sweating, dehydration, and intense core hypothermia. Kulagina was forcing coherent biofield output through neurological pathways that the adult body normally keeps shut. She paid for it with chronic exhaustion, repeated hospitalizations, and premature death from heart failure at 63.



Spoken Transcript:

Our third case is Djuna Davitashvili, the legendary healer who treated Soviet leaders like Leonid Brezhnev and the prima ballerina Maya Plisetskaya and received the Order of Friendship of Peoples from Russian President Boris Yeltsin.

When assessed by Gulyaev and Godik at the IRE RAS laboratory, Djuna demonstrated a remarkable degree of deliberate physiological control. She could induce local temperature rises of up to 5 degrees Celsius at a distance of 1 to 5 centimeters from her hands, accompanied by low-frequency electric fields pulsating between one and ten Hertz.

During these experiments, scientists discovered a specific biophysical mechanism and named it: **“Thermal Pumping.”** Djuna was not creating thermal energy out of nothing. She was executing rapid, autonomic vasodilation and vasoconstriction—shunting blood volume from her internal organs to her extremities to project calibrated thermal and infrared waves toward a patient.

Djuna patented this technique in 1981. But notice the inescapable pattern: the healer burns her own fuel. Constantly redistributing internal heat and projecting vital currents placed immense strain on her vascular system. Djuna could not heal her own ailments, and she died at 65 from what her physicians diagnosed as “extreme systemic wear.”



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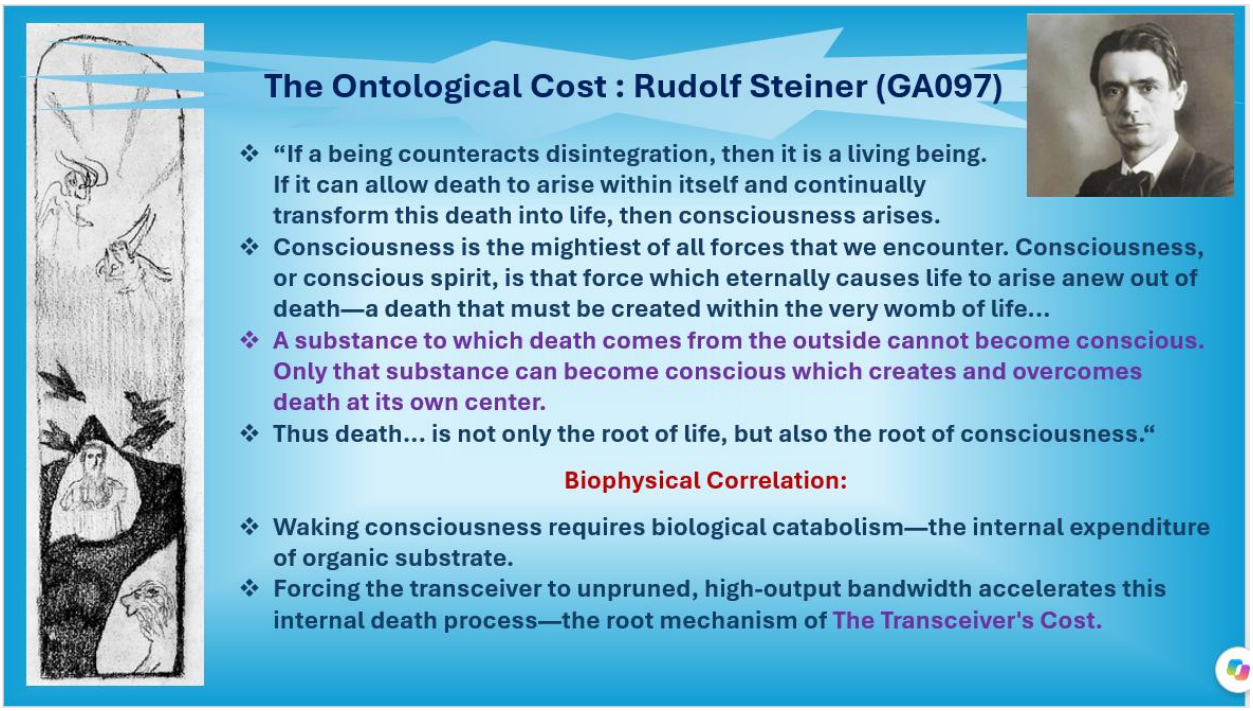
Does operating the transceiver always require catastrophic exhaustion? Fortunately, no.

Consider Wolf Messing, the renowned Soviet stage telepath. Unlike Kulagina or Davitashvili, Messing never claimed supernatural psi. When locating hidden objects on stage, he insisted on holding the subject's wrist or hand. He detected ideomotor micro-movements—subconscious muscular resistance and directional pulls measuring fractions of a millimeter and single grams of force. Messing prefigured Applied Kinesiology, using the subject's somatic response as an information channel. He did not project energy; he functioned as a receptive antenna. His metabolic drain was minimal (however, it was still present).

We see this exact same mechanism operating in everyday, disciplined embodiment. For example, in the close embrace of Argentine Tango (*abrazo cerrado*), two bodies maintain an unbroken, bidirectional ideomotor dialogue. After years of partnered practice, followers routinely anticipate a leader's directional intent one to three seconds before the physical step occurs. If the leader changes their mind at the final millisecond, the follower continues the original trajectory—proving she was responding to the kinesthetic intent already broadcast through the muscular field, not the movement itself.

Furthermore, the music acts as a "Third Leader"—a rhythmic carrier wave that phase-locks both dancers' autonomic systems, minimizing internal neurological noise and allowing high-efficiency communication with minimal vital exhaustion.

In Argentine Tango, we are not using head-bound mental effort. We are engaging the **disciplined Senses of Will**. By subordinating the body to shared kinematic rhythm, the will harmonizes the nervous system instead of exhausting it—achieving maximum communication at minimal vital cost. Messing and Tango prove that when the transceiver is tuned for resonance rather than brute-force projection, sensing is sustainable.



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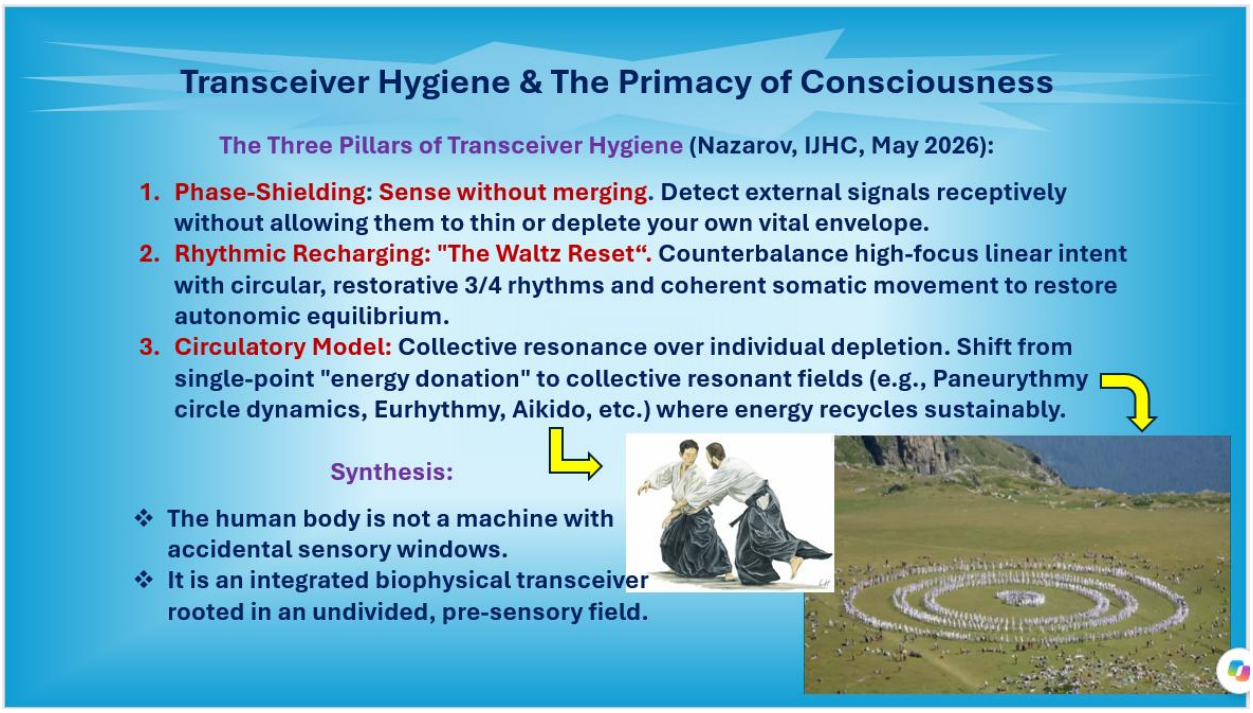
We arrive now at the fundamental philosophical question behind this entire investigation: **Why must high-bandwidth consciousness extract a biological cost**? Why did Kulagina's and Davitashvili's bodies wear down? The answer was expressed with profound clarity by Rudolf Steiner in his lecture delivered in Berlin on November 8, 1906—published in Volume 97 of his Complete Works: "If a being counteracts disintegration, then it is a living being. If it can allow death to arise within itself and continually transform this death into life, then consciousness arises. Consciousness is the mightiest of all forces that we encounter. Consciousness, or conscious spirit, is that force which eternally causes life to arise anew out of death—a death that must be created within the very womb of life...

Life is a process involving both an outer world and an inner world; consciousness, however, is a process involving only an inner world. **A substance to which death comes from the outside cannot become conscious. Only that substance can become conscious which creates and overcomes death at its own center.**

Thus death... is not only the root of life, but also the root of consciousness." (In the language of modern physics: **an anti-entropy process**.)

Consider what Steiner is saying. Pure vegetative life simply resists entropy—it counteracts decay. But waking consciousness requires catabolism—the deliberate internalization of destruction. Modern neurobiology validates this: every conscious sensory impression and cognitive leap requires the active breakdown of organic cellular substrate.

When an individual forces their transceiver beyond its pruned, evolutionary limits—generating macro-PK, emitting concentrated biophotons, or dissolving sensory boundaries—they are accelerating that internal catabolic fire. Death is no longer kept at the perimeter; it is active at the very center of the living tissue. That is the ontological origin of the Transceiver's Cost.



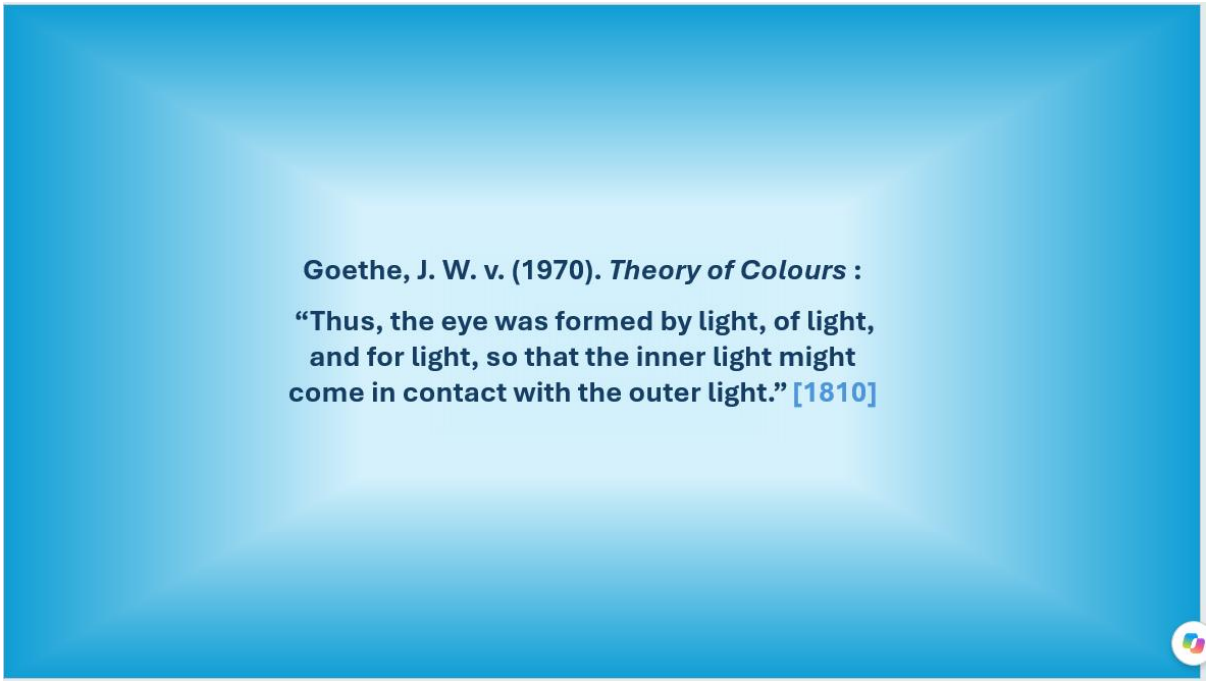
Spoken Transcript:

Because operating the transceiver carries this biological price, any practitioner working at the frontiers of human resonance must practice what I formalized as **Transceiver Hygiene** in my paper published in the *International Journal of Healing and Caring*:

1. **Phase-Shielding:** Learning to detect signals receptively—like Messing—without merging or collapsing your own vital boundaries into the patient or environment.
2. **Rhythmic Recharging:** Shifting from linear, stressful output into circular, restorative rhythms—what I call the "Waltz Reset"—or the collective circular movements of Paneurythmy; or using the incoming force of the opponent in Aikido (literally "the way of harmonizing energy"), which replenishes autonomic balance.
3. **The Circulatory Model:** Ceasing the illusion that the healer must personally "give away" their own vital energy. In collective disciplines like Paneurythmy, energy recycles continuously through the group circle, producing high coherence at minimal individual cost.

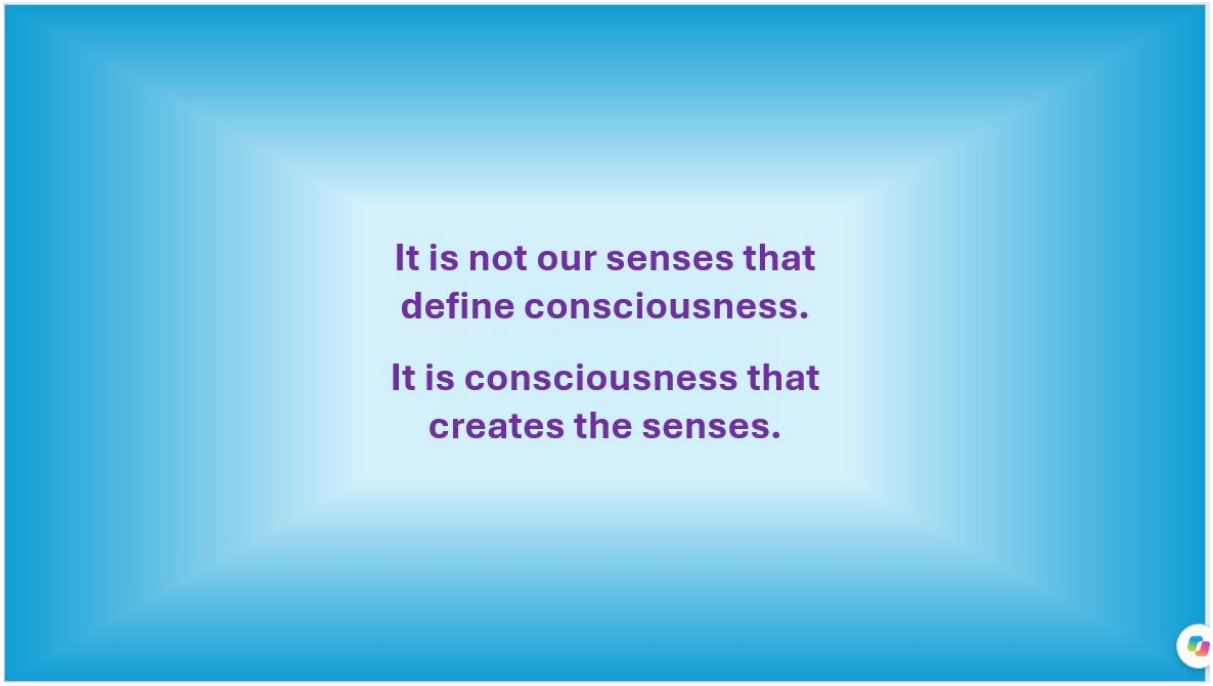
Colleagues, the historical Soviet data, modern developmental neuroscience, and Steiner's spiritual science converge on a single, inescapable truth.

The human body is not a machine equipped with five accidental peepholes. It is an integrated, living biophysical transceiver that began in an undivided, pre-sensory state. When we witness anomalous perception, we are not looking at supernatural departures from reality; we are catching glimpses of the pre-sensory architecture we all once inhabited.



Spoken Transcript:

Here is the famous citation from Johann Wolfgang von Goethe's *Theory of Colours*, written more than two centuries ago: *"Thus, the eye was formed by light, of light, and for light, so that the inner light might come in contact with the outer light."* [1810] These words speak for themselves, underscoring the statement on the next slide with which I would like to conclude my presentation.



Spoken Transcript:

It is not our senses that define consciousness. It is consciousness that creates the senses.



Spoken Transcript:

Thank you. I welcome your questions.

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