Something Higher:  
Beyond Physicalism

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Despite the towering intellectual and technological achievements of twentieth-century science, its spell over us has been irreversibly weakened. There are at least two important reasons for this. First, scientist and layman alike have become aware of the limits and shortcomings of scientific knowledge. Second, we realize that our perpetual hunger for spiritual understanding is real and undeniable. It can neither be defined away by subtle logic, nor be satisfied by viewing the universe as sterile, mechanistic, and accidental.1

— Roger S. Jones, Physics as Metaphor

The most urgent issue we humans face is how we conceive ourselves — whether as complex lumps of matter guided by the so-called blind, meaningless laws of nature, or as creatures who, although physical, are also imbued with something more: consciousness, mind, will, choice, purpose, direction, meaning and spirituality, that difficult-to-define quality that says we are connected with something that transcends our individual self and ego. Every decision we make is influenced by how we answer this great question: Who are we?

There is growing awareness that the endless arguments between proponents of these two views are more than hairsplitting disagreements among experts, but they have real consequences for our future on earth, and perhaps whether we shall have a future.2 As novelist and statesman André Malraux (1901-1978) said, the twenty-first century will be spiritual, or it will not be.3

Vaclav Havel (1936-2011), the author, poet, playwright and diplomat who was the first president of the Czech Republic, saw a hell looming in our world and had the guts to say so on the international stage. As a potential solution, he said, “It seems to me that one of the most basic human experiences, one that is genuinely universal and unites — or, more precisely, could unite — all of humanity, is the experience of transcendence in the broadest sense of the word.”4 Havel endorsed what he called “responsibility to something higher.” In a speech to a joint session of the United States Congress on February 21, 1990, he said:

Consciousness precedes Being, and not the other way around…. [F]or this reason, the salvation in this human world lies nowhere else than in the human heart…. Without a global revolution in the sphere of human
consciousness, nothing will change for the better in the sphere of our being as humans, and the catastrophe toward which this world is headed — be it ecological, social, demographic or a general breakdown of civilization — will be unavoidable. If we are no longer threatened by world war or by the danger that the absurd mountains of accumulated nuclear weapons might blow up the world, this does not mean that we have definitely won. We are still capable of understanding that the only genuine backbone of all our actions, if they are to be moral, is responsibility. *Responsibility to something higher* than my family, my country, my company, my success — responsibility to the order of being where all our actions are indelibly recorded and where and only where they will be properly judged (emphasis added).5

There are vibrant developments in key areas of science that show real promise in humankind's search for, and responsibility to, something higher. There are solid reasons to believe that Havel’s “global revolution in the sphere of human consciousness” may be closer than we think — that, after three centuries of a flirtation with, and seduction by, a purely physical view of who we are, another view is emerging.

THE FACE OF PHYSICALISM

Physicalism is the doctrine that the real world consists simply of the physical world. Its close cousin is materialism, the creed that nothing exists except matter and its movements and modifications, as well as the doctrine that consciousness and will are wholly due to material agency.6 These terms are often used interchangeably. What does physicalism actually look like? It is a multifaceted view in which, as astrophysicist David Lindley has said, in a cameo of physicalism, “We humans are just crumbs of organic matter clinging to the surface of one tiny rock. Cosmically, we are no more significant than mold on a shower curtain.”7 Spirituality, the sense of connectedness with something that transcends the individual self, is equated in this view with self-deception, fantasy or hallucination. In this outlook, meaning, direction, purpose and free will are absent. As philosopher Daniel Dennett puts it, “When we consider whether free will is an illusion or reality, we are looking into an abyss. What seems to confront us is a plunge into nihilism and despair.”8 Physicalism involves the presumption that mind or consciousness is an exaggerated, unnecessary concept — that, according to linguist Karen Stollznow, “Thinking is just the meat talking to itself. It’s generated by the brain and when we die, unfortunately that dies with us. We can state that categorically.”9 Or as philosopher Dennett says without a whiff of irony in his book *Consciousness Explained*, “We’re all zombies. Nobody is conscious.”10 And as the Nobel Prize-winning molecular biologist Francis Crick confidently proclaimed, “[A] person’s mental activities are entirely due to the behavior of nerve cells, glial cells, and the atoms, ions, and molecules that make up and influence them.”11 Similarly, astronomer Carl Sagan unequivocally stated, “[The
brain’s] workings — what we sometimes call mind — are a consequence of its anatomy and physiology, and nothing more.”12 And as psychiatrist and sleep researcher Allan Hobson asserted, “Consciousness, like sleep, is of the Brain, by the Brain, and for the Brain.”13 In sum, physicalism constitutes a bleak vision in which, as Nobel Prize-winning physicist Steven Weinberg said, “The more the universe seems comprehensible, the more it also seems pointless.”14

A few science insiders have considered religion and spirituality as relatively immune from the corrosive influence of physicalism. For example, as astrophysicist Sir Arthur Eddington remarked in his Swarthmore Lecture in 1929, “Dismiss the idea that natural law may swallow up religion; it cannot even tackle the multiplication table single-handed.”15 Others suggest that the intractable mind-versus-matter debate rests on semantic misunderstandings and is overblown. Among them is the anti-materialist British philosopher Mary Midgley, who said:

The real trouble with the mind-body problem centers on the word “materialism.” This word is itself a relic of dualism: it suggests that there are two rival stuffs — mind and matter — competing to be seen as basic to the world. It tells us to choose one of these and reduce the other to it. There are not two such separate stuffs. There is just a complex world containing complex creatures, about whom many sorts of questions arise. Each question must be answered in its own terms…. But actually our thoughts are quite as real as our coffee cups, and “matter” is every bit as obscure a concept as "mind."16

It has been difficult to find traction in this debate. The dominant physicalist view that mind and consciousness are products of brain function is served up within contemporary science not as a modest hypothesis or humble conjecture, but as an incontrovertible fact, and anyone who disagrees is likely to be considered an apostate or a traitor to science. As consciousness researcher Edward F. Kelly, of the University of Virginia, states in the landmark book Beyond Physicalism, “[These] well-meaning defenders of Enlightenment-style rationalism … clearly regard themselves, and current mainstream science itself, as reliably marshaling the intellectual virtues of reason and objectivity against retreating forces of irrational authority and superstition. For them the truth of the [physicalist view] has been demonstrated beyond reasonable doubt, and to think anything different is necessarily to abandon centuries of scientific progress, release the black flood of occultism, and revert to primitive supernaturalist beliefs characteristic of bygone times.”17

Mathematician and philosopher Charles Eisenstein has drawn attention to the condescending mindset that typifies physicalists who hold this view:

The unfalsifiable world-view of the [physicalist] Skeptic extends far beyond scientific paradigms to encompass a very cynical view of human nature. The debunker must buy into a world full of frauds, dupes, and the mentally
unstable, where most people are less intelligent and less
sane than he is, and in which apparently honest people
indulge in the most outrageous mendacity for no good
reason. For the witnesses are, on the face of it, sincere.
How can I account for their apparent sincerity? I have
to assume either (1) that this apparent sincerity is a
cynical cover for the most base or fatuous motives, or
(2) they are ignorant, incapable of distinguishing truth
from lies and delusion.18

“BEATS THE HECK OUT OF ME”

The dogma of physicalism suffers from two fatal defects: the sheer poverty of
evidence that brains produce consciousness, and the enormous human costs of a
world that is sanitized of a spiritual outlook, which the dogma forbids.

No human has ever seen a brain or anything else produce consciousness, and
there is no accepted theory as to how this could happen. This weakness is becoming
obvious to an increasing number of top-tier scientists, as the following comments
show. I include several examples to show that these are not rare, isolated opinions.

Steven A. Pinker, experimental psychologist at Harvard University, on
how consciousness might arise from something physical, such as the brain,
states, “Beats the heck out of me. I have some prejudices, but no idea of how to
begin to look for a defensible answer. And neither does anyone else.”19 Donald
D. Hoffman, cognitive scientist at University of California, Irvine: “The scientific
study of consciousness is in the embarrassing position of having no scientific
theory of consciousness.”20 Stuart A. Kauffman, theoretical biologist and
complex-systems researcher: “Nobody has the faintest idea what consciousness
is.... I don’t have any idea. Nor does anybody else, including the philosophers of
mind.”21 Roger W. Sperry, Nobel Prize-winning neurophysiologist: “Those
centermost processes of the brain with which consciousness is presumably
associated are simply not understood. They are so far beyond our
comprehension at present that no one I know of has been able even to imagine
their nature.”22 Eugene P. Wigner, Nobelist in physics: “We have at present not
even the vaguest idea how to connect the physio-chemical processes with the
state of mind.”23 Physicist Nick Herbert, an expert in nonlocality: “Science’s
biggest mystery is the nature of consciousness. It is not that we possess bad or
imperfect theories of human awareness; we simply have no such theories at all.
About all we know about consciousness is that it has something to do with the
head, rather than the foot.”24 Physicist Freeman J. Dyson: “The origin of life is a
total mystery, and so is the existence of human consciousness. We have no clear
idea how the electrical discharges occurring in nerve cells in our brains are
connected with our feelings and desires and actions.”25 Philosopher Jerry A.
Fodor, of Rutgers University: “Nobody has the slightest idea how anything
material could be conscious. Nobody even knows what it would be like to have
the slightest idea about how anything material could be conscious. So much for
the philosophy of consciousness.”26 Philosopher John R. Searle, of the University
of California, Berkeley: “At the present state of the investigation of consciousness
we don’t know how it works and we need to try all kinds of different ideas.”

Mathematical physicist Sir Roger Penrose: “My position [on consciousness] demands a major revolution in physics.... I’ve come to believe that there is something very fundamental missing from current science.... Our understanding at this time is not adequate and we’re going to have to move to new regions of science....” Sir John Maddox, the editor for 22 years of the prestigious journal *Nature*: “What consciousness consists of ... is ... a puzzle. Despite the marvelous successes of neuroscience in the past century... we seem as far from understanding cognitive process as we were a century ago.”

Die-hard physicalists do not agree with these dismissive comments. Some physicalists tout hypotheses and theories which they believe show decisively how the brain makes consciousness. So it is not quite right to say that physicalism has no theories about the origins of consciousness; we should say, rather, that physicalism has no *successful* theories for such. As astrophysicist David Darling describes this impasse:

[A] growing number of scientists are now busily rummaging around in the brain trying to explain how the trick of consciousness is done. Researchers of the stature of Francis Crick, Daniel Dennett, Gerald Edelman, and Roger Penrose have recently come forward with a range of ingenious theories. All purport to explain, in one way or another, consciousness as an epiphenomenon of physical and chemical processes taking place in the brain — and all fail utterly. They fail not because their models are insufficiently accurate or detailed, but because they are trying to do what is, from the outset, impossible.

The truth is that no account of what goes on at the mechanistic level of the brain can shed any light whatsoever on why consciousness exists. No theory can explain why the brain shouldn’t work exactly as it does, yet without giving rise to the feeling we all have of "what it is like to be." And there is, I believe, a very simple reason for this. The brain does not produce consciousness at all, any more than a television set creates the programs that appear on its screen. On the contrary, the brain filters and restricts consciousness, just as our senses limit the totality of experience to which we might otherwise have access.

Nonetheless, the physicalistic view inspires messianic confidence in its adherents, who ardently strive to extend the physicalist caliphate into every nook and cranny of the life sciences. Their zeal can be unbounded. For example, philosopher Dennett is reported as saying that he would commit suicide if paranormal phenomena turn out to be real.
The implication that there might be room in science for a spiritual component is met with derision. Special contempt is reserved for the possibility that humans might survive bodily death, for this would be the death knell for the mind-equals-brain assumption on which the physicalist doctrine rests. This is particularly obvious when physicalists themselves have near-death experiences suggesting survival following physical death. When they describe these experiences publicly, they have been bullied by their physicalist colleagues into publicly retracting any implication that something might survive the death of the body. 33, 34, 35, 36, 37

Many physicalist skeptics consider the idea of survival of bodily death so dangerous that it must be put down at all costs. These efforts can shade into a deliberate cover-up that masquerades as an effort to protect science. Harvard psychologist William James reported that a leading biologist once told him,

> Even if such a thing were true, scientists ought to band together to keep it suppressed and concealed. It would undo the uniformity of Nature and all sorts of other things without which scientists cannot carry on their pursuits. 38, 39

In defense of their credo, physicalists often maintain that they actually prefer annihilation with physical death to any sort of survival. Longing for immortality is seen as a defect of character or a philosophical sellout in people too weak-willed to face their impending doom. In the face of certain extermination, one should simply man up and go quietly, proudly and bravely into that dark night. There is a hint of this heroic martyrdom in Lord Bertrand Russell’s famous comment, “I believe that when I die I shall rot, and nothing of my ego will survive.... I should scorn to shiver with terror at the thought of annihilation.” 40

**HUMAN COSTS**

Physicalism comes with enormous human costs, which, I believe, are vastly underestimated by the physicalist cheerleaders. Annihilation is an inescapable part of the physicalism package. Carl G. Jung, the Swiss psychiatrist, said, “The decisive question for man is: Is he related to something infinite or not? That is the telling question of his life.” 41 If consciousness is produced by the brain and vanishes with physical death, as physicalists insist, then any meaningful relationship to “something infinite” is a chimera. Novelist George Orwell was among those who decried the impact of this morbid outlook, saying, “The major problem of our time is the decay of belief in personal immortality.” 42 Jung felt so strongly about this issue that he made it a principle in his patients’ therapy. “As a doctor,” he said, “I make every effort to strengthen the belief in immortality....” 43

The human cost of a failed belief in immortality, which has helped sustain human hope for perhaps the entire span of human history, is not admitted within physicalism. The public stance of many physicalists, as mentioned, is to keep a stiff upper lip, flex one’s intellectual muscle, and deny any desire or need for such a belief. Yet the old channels within the psyche run deep, and merely declaring immortality undesirable or unnecessary does not make it so.
The fear of death is humanity’s Great Disease, the terror that has probably caused more suffering throughout history than all the physical diseases combined. As Ernest Becker said in his Pulitzer Prize-winning book *The Denial of Death*, “[T]he idea of death, the fear of it, haunts the human animal like nothing else; it is the mainspring of human activity — activity designed largely to avoid the fatality of death, to overcome it by denying in some way that it is the final destiny for man.”

The physicalists’ certainties — that these issues are settled and the verdict is in: materialism reigns, and spirituality and any form of survival is self-delusion — is regarded as overheated swagger by many consciousness researchers. Kelly, for example, speaking for his colleagues, states,

We believe it takes astonishing hubris to dismiss en masse the collective experience of a large proportion of our forebears, including persons widely recognized as pillars of all human civilization, and we are united in believing that the single most important task confronting all of modernity is that of meaningful reconciliation of science and religion.... [W]e believe that emerging developments within science itself are leading inexorably in the direction of an expanded scientific understanding of nature, one that can accommodate realities of a ‘spiritual’ sort ...

**PRACTICALITY**

But not *just* of a spiritual sort. For instance, quantum theorist Henry P. Stapp, widely considered the current dean of quantum theorists, has expressed concern about the impact of the physicalistic views on the nitty-gritty, practical ways we live our lives. In his paper titled “Attention, Intention, and Will in Quantum Physics,” he stated, “It has become now widely appreciated that assimilation by the general public of this ‘scientific’ view, according to which each human is basically a mechanical robot, is likely to have a significant and corrosive impact on the moral fabric of society.” He warned of the “growing tendency of people to exonerate themselves by arguing that it is not ‘I’ who is at fault, but some mechanical process within: ‘my genes made me do it’; or ‘my high blood-sugar content made me do it.”’

Stapp shows how hard-core physicalism lets us off the hook by assuming that the world unfolds on its own according to the alleged meaningless laws of nature. We are not active participants in such a process, but are passive observers at best and victims at worst.

Cosmologist and quantum physicist Menas C. Kafatos, of Chapman University, is the co-author of *The Conscious Universe: Parts and Wholes in Physical Reality*. Like Stapp, he is concerned with the practical importance of consciousness in daily life, what our future will look like, and whether we shall have a future that can support life as we know it. He writes:

> Are these issues yet another set of intellectual arguments that scientists, philosophers and academics make? They
are very relevant to your life and your healthy living: We seem to be bound by our minds, often giving us no peace. Yet, if what we view as reality is really the product of the mind, then we can approach our mind as a tool, as a friendly tool, get it on “our side,” so to speak ... [for] healthy living ... what we should pass on to the next generations.49

YOUR SPOUSE AS A DIFFERENTIAL EQUATION

Stapp’s concern that physicalistic science defines us as mechanical robots is a serious issue. If we peel back the layers of physicalistic logic behind this view, what do we find? We come face-to-face with illogic and hypocrisy, described by philosopher of science Sir Karl Popper in his Compton Lecture in 1965.50 Popper observed that, according to physicalistic determinism, mental states are the result of

... a certain physical structure of the holder — perhaps of his brain. Accordingly, we are deceiving ourselves whenever we believe that there are such things as arguments or reasons which make us accept determinism. Purely physical conditions including our physical environment make us say or accept whatever we say or accept.51

Popper called this physicalistic narrative “promissory materialism” — the notion that one day, not so very long from now, we’ll be able to give a completely physical account of consciousness. Popper predicted that, lured by periodic advances in brain science, “[W]e shall be talking less and less about experiences, perceptions, thoughts, beliefs, purposes and aims; and more and more about brain processes ....”52 His prediction has come to pass.

Nobel laureate and neurophysiologist Sir John Eccles agreed with Popper. He excoriated the physicalist narrative, saying:

[P]romissory materialism [is] a superstition without a rational foundation. The more we discover about the brain, the more clearly do we distinguish between the brain events and the mental phenomena, and the more wonderful do both the brain events and the mental phenomena become. Promissory materialism is simply a religious belief held by dogmatic materialists ... who confuse their religion with their science. It has all the features of a messianic prophecy....53

Because physicalists maintain that no one is immune from physical laws, the implication is that everyone is a mechanical robot, including, inevitably, physicalists themselves. As Eccles observed, this leads to “an effective reductio ad absurdum.”54 Why? Consider philosopher Dennett’s above observation that free will is an illusion.
In asserting such, he presumably believes he was using his own free will to arrive at the conclusion that free will does not exist. But physicalists never acknowledge this pretzel-like aspect of their “logic.” Determined, robotic behavior is for others. The robotic strictures of physicalism do not apply to themselves. Thus they behave as if their conclusions are freely arrived at, and should be taken seriously. They must exempt themselves from their physicalistic theory, for if they did not they would have no claim to truth, no compelling “arguments or reasons,” as Popper noted. They cannot acknowledge that, if physicalism is valid, they arrived at their conclusions not as a result of freely considered data, but because their atoms, molecules and brain made them do so. They are thus hoisted by their own petard.

This ludicrous situation was parodied by astrophysicist Sir Arthur Eddington in his 1927 Gifford Lecture:

> The materialist who is convinced that all phenomena arise from electrons and quanta and the like controlled by mathematical formulae, must presumably hold the belief that his wife is a rather elaborate differential equation, but he is probably tactful enough not to obtrude this opinion into domestic life.\(^{55}\)

Futurist Willis Harman also identified the hypocrisy — the silliness? — of the physicalist position:

> Science for three and a half centuries has been built on the premise that consciousness as a causal factor does not have to be included.... [But] nobody has ever lived life on the basis of such a contrary premise. Nobody has ever said, “I’m going to live my life as though my consciousness — my mind — weren’t capable of making decisions, making choices, taking action....”\(^{56}\)

**EVIDENCE**

The evidence favoring a view of consciousness that transcends physicalism is enormous and is too vast to be described here. Several excellent summaries have recently appeared, such as *Varieties of Anomalous Experience: Examining the Scientific Evidence*\(^{57}\); *Irreducible Mind: Toward a Psychology for the 21st Century*\(^{58}\); and, as mentioned, *Beyond Physicalism: Toward Reconciliation of Science and Spirituality*.\(^{59}\)

Many readers may be surprised to discover the depth of this empirical evidence. Recent analyses show that there are at least six areas in consciousness research that resoundingly demonstrate the nonlocal, beyond-the-brain actions of consciousness. Experiments in these areas have been replicated repeatedly in labs around the world, each area giving odds against chance of around a billion to one, or combined odds against chance of \(10^{54}\) to one, a truly astronomical number. These areas of research are remote viewing, random number generator influence, Ganzfeld, the Global Consciousness Project, presentiment, and precognition.\(^{60, 61, 62, 63}\)
This evidence is not a cosmetic re-working of current physicalistic views, but a radical departure or paradigm shift in current thinking. Consciousness researcher Kelly summarizes what is at stake:

"This emerging world picture is not just the same old physicalistic world with an altered expression, but a world whose constitution is fundamentally different in ways that matter to us human beings. [This] vision ... provides an antidote to the prevailing postmodern disenchantment of the world and demeaning of human possibilities. It not only more accurately and fully describes our human condition but engenders hope and encourages human flourishing. It provides reasons for us to believe that freedom is real, that our human choices matter, and that we have barely scratched the surface of our human potentials. It also addresses the urgent need for a greater sense of worldwide community and interdependence, a sustainable ethos, by demonstrating that under the surface we and the world are much more extensively interconnected than previously realized. We strongly suspect that our individual and collective fates in these exceptionally dangerous and difficult times — indeed, the fate of our precious planet and all of its passengers — may ultimately hinge upon wider recognition and more effective utilization of the higher states of being that are potentially available to us but largely ignored or even actively suppressed by our post-modern civilization with its strange combination of self-aggrandizing individualism and fundamentalist tribalisms (emphasis in original)."64

**THEORY**

One of the main obstacles to the penetration of this evidence into mainstream science is the lack of a generally accepted theory as to how so-called paranormal phenomena could be true. But if this is a weakness for consciousness research, it is equally problematic for mind-equals-brain physicalism, which is completely bereft of any successful explanatory theory of consciousness, as mentioned.

The basic conundrum is not how a particular so-called paranormal event — telepathy, clairvoyance, precognition, psychokinesis, or the survival of bodily death — could be valid, but how we can consciously be aware of ordinary experiences. In other words, the primary mystery is the very existence of consciousness. We breezily ignore the role of consciousness in the mundane events of our lives — how we decide what to have for dinner, say, and how we choose to raise a fork of spaghetti while opening our mouth at the same time and swallowing soon thereafter; and how we can experience the redness of the sauce, the taste of the garlic, the satisfaction of a lovely presentation, the bouquet of the wine, and admiration for the
chef — feats beyond the ability of the most sophisticated robot. Although physicalists offer a flurry of explanations in sensorimotor terms for how these accomplishments happen, their explanations are empty of the crucial role of consciousness in all such sequences.

Any experience in which consciousness is involved is mysterious, whether deciphering the Lorenz equation or deciding to pick our nose. Commonplace events are as enigmatic as any of the so-called paranormal pyrotechnics that provoke incredulity among physicalists. There are not two categories of consciousness-related phenomena, normal and paranormal. They are all “para” — or normal, as the case may be. If we were sufficiently awake, we might realize that the lifting of a finger or the experience of love is as astonishing as the survival of bodily death. When physicalists bridle at the extraordinary and ignore the commonplace, in biblical imagery they are “straining at a gnat and swallowing a camel.”

Voltaire — no friend of spirituality — realized this. He observed, “It is not more surprising to be born twice than once.” He understood that the marvel is life and consciousness themselves, not how many turns they make on the wheel of life.

**DOUBLE DAZZLEMENT**

“To live is so startling it leaves little time for anything else,” exulted Emily Dickinson. And physician-researcher Lewis Thomas observed, “Statistically, the probability of any one of us being here is so small that you’d think the mere fact of existing would keep us in a contented dazzlement of surprise.” Add to this the fact that we are not only here but conscious as well, and you’d think we might experience a state of double dazzlement. But no; for most people, most of the time, consciousness is so ordinary and boring it largely escapes notice: the height of cosmic ingratitude.

Awakening us to conscious awareness of the ordinary is the calling of every great poet and artist. This is the point of Tennyson’s humble “Flower in the Crannied Wall,” of which he said: “… if I could understand/What you are, root and all, and all in all,/I should know what God and man is.” And as George Eliot wrote in Middlemarch, “If we had a keen vision of all that is ordinary in human life, it would be like hearing the grass grow or the squirrel’s heart beat, and we should die of that roar which is the other side of silence.” But Eliot felt compelled to add, “As it is, the quickest of us walk about well wadded with stupidity…. We do not expect people to be deeply moved by what is not unusual.”

If our well-waddenedness prevents our recognition of the extraordinariness of the ordinary, how do we strip away the cognitive padding that insulates us from greater awareness? This is a crucial question because, typically, dedicated, well-waddled physicalists scrupulously avoid evidence that contradicts their assumptions. As one such individual commented, “This is the sort of thing I would not believe, even if it really happened.” Many consciousness researchers have written wisely about how to encourage openness to the evidence for a nonphysicalist view, such as Paul Marshall in his recent essay “Why We Are Conscious of So Little” in the above-mentioned *Beyond Physicalism*. In fact, the overall thrust of all three volumes mentioned above is to nudge us into fuller awareness through an enlarged conceptual framework that transcends a physicalistic approach.
Openness to novel views is especially encouraged by the blank spots on our maps of the universe that have been recently recognized. As consciousness researchers Edward Kelly and David E. Presti state:

[D]espite all of our genuine scientific knowledge and technical expertise, patiently accumulated over centuries of systematic and disciplined effort, we ... apparently overlooked until the past decade or so something like 95% of the physical content of the universe — its so-called dark matter and energy. This chastening discovery should certainly encourage humility, and perhaps a sense of excitement as well, regarding what may remain to be discovered about the human mind!73

Because physicalists assume, as stated, that extraordinary, anomalous consciousness-related phenomena cannot exist in principle, they generally refuse to examine the evidence for these happenings. In so doing, they may have duplicated the failure of physicists to notice 95 percent of the matter and energy in the universe, only this time the overlooked item is the fundamental nature of consciousness and its manifestations.

Suppose I said to you, "I would like to be your internal medicine physician, but you should know that I understand nothing about 95 percent of the organs in your body." You would probably turn away immediately, disgusted by my audacity, as you should. Should we not react with equal caution to physicalists who want to be our interpreters of reality, when they are in the dark regarding 95 percent of the physical content of the universe? With such massive lacunae regarding physical issues, why trust them where consciousness is concerned?

Why do entities such as consciousness remain invisible to physicalists? As astrophysicist David Darling says, "If science searches the universe — as it does — for certain kinds of truth, then these are inevitably the only ones it will find. Everything else will slip through the net."74 The net used by consciousness researchers is made of finer mesh than the net employed by physicalists; it captures facts and phenomena physicalists never notice.

There is no room for smugness, however, because this failing — failure to notice — affects everyone in one way or another, as novelist Stephen King humorously points out:

[J]umbo shrimp, everybody’s oxymoron. They’re the big shrimp that nobody ate in restaurants until 1955 or 1960 because, until then, nobody thought of going shrimping after dark. They were there all the time, living their prosaic shrimp lives, but nobody caught them. So when they finally caught them it was, “Hello! Look at this. This is something entirely new.” And if the shrimp could talk they’d say, “[W]e’re not new. We’ve
been around for a couple of thousand years. You were just too dumb to look for us.”

MIND AT LARGE

A recurring theme of modern consciousness research is that there is a larger, more extensive consciousness beyond our individual mind. This view can be traced back for at least three millennia, appearing in various forms in Hindu and Buddhist thought. But it is a mistake to consign this concept to archaic cultures. A proponent of this view was British classicist and psychical researcher F. W. H. Myers (1843–1901), who wrote:

There exists a more comprehensive consciousness, a profounder faculty, which for the most part remains potential only...but from which the consciousness and the faculty of earth-life are mere selections.... [N]o Self of which we can here have cognizance is in reality more than a fragment of a larger Self — revealed in a fashion at once shifting and limited through an organism not so framed as to afford it full manifestation.

Many prominent architects of 20th-century science have affirmed a unified, collective aspect of consciousness, in which all individual minds are connected as a single whole. As Nobel Prize-winning physicist Erwin Schrödinger put it, "To divide or multiply consciousness is something meaningless. In all the world, there is no kind of framework within which we can find consciousness in the plural; this is simply something we construct because of the spatio-temporal plurality of individuals, but it is a false construction.... The category of number, of whole and of parts are then simply not applicable to it." And, "The overall number of minds is just one.... In truth there is only one mind." Astrophysicist Sir Arthur Eddington agreed: "The idea of a universal Mind or Logos would be, I think, a fairly plausible inference from the present state of scientific theory; at least it is in harmony with it." And as the eminent physicist David Bohm observed, "Deep down the consciousness of mankind is one. This is a virtual certainty ... and if we don’t see this it’s because we are blinding ourselves to it." These images are congruent with psychiatrist Carl G. Jung’s concept of the collective unconscious, Emerson’s Over-Soul, and Aldous Huxley’s Mind at Large — a Universal or One Mind, a plenum that fuels our experience as individual sentient, conscious creatures. As philosopher Michael Grosso has stated, "Our individual minds are surface growths that appear separate and distinct but whose roots lie in a deeper psychic underground; there we are mutually entangled and part of a more extended mental system.

A perennial complaint toward this view is the horror of being swallowed up and homogenized in a cosmic blob of undifferentiated consciousness, in which individuality disappears. This concern is emphatically contradicted by those who claim to have experienced the larger connections. Psychologist William James emphasized that a sense of individuality is preserved, not extinguished, in the Universal or One Mind:
We with our lives are like islands in the sea, or like trees in the forest. The maple and the pine may whisper to each other with their leaves ... [but] the trees also commingle their roots in the darkness underground, and the islands also hang together through the ocean’s bottom. Just so there is a continuum of cosmic consciousness, against which our individuality builds but accidental fences, and into which our several minds plunge as into a mother-sea or reservoir. Our “normal” consciousness is circumscribed for adaptation to our external earthly environment, but the fence is weak in spots, and fitful influences from beyond leak in, showing the otherwise unverifiable common connection.  

THE BRAIN AS FILTER

The brain does not generate thought...any more than the wire generates electric current.  
— Paul Brunton

An assertion related to mind-at-large is that the brain operates not as a generator or producer of mind or consciousness, but as a filter that receives, limits, transforms, and transmits information that arises external to the brain. As historian of religion Huston Smith has said, “The brain breathes mind like the lungs breathe air.” This reducing function is vital; otherwise we would likely be overwhelmed by informational input, which would compromise our ability to get on successfully in the world. An impressive array of historical opinion has accumulated in favor of the brain-as-filter view, including Aldous Huxley, F. W. H. Myers, William James, Henri Bergson, F. C. S. Schiller, and others.

We pay a price for this stepped-down version of consciousness, however. An experience of our essential nature is obscured. As novelist Huxley put it, “[E]ach one of us is potentially Mind at Large. But in so far as we are animals, our business at all costs is to survive. To make biological survival possible, Mind at Large has to be funneled through the reducing valve of the brain and nervous system. What comes out at the other end is a measly trickle of the kind of consciousness which will help us to stay alive on the surface of this particular planet” As astrophysicist Darling has said, we are conscious not because of the brain, but in spite of it.  

Philosopher Michael Grosso has summarized the key features of this view:

The brain transmits — it does not produce — consciousness.... [M]ind is not a property of the brain but a user of the brain.... Consciousness preexists the brain; it does not emerge from the brain. There is a transpersonal mind, i.e., a mind at large, a cosmic consciousness, James’s “mother-sea” of consciousness....
[There is an] ever-fluctuating threshold that separates subliminal from supraliminal mental life.”

The permeability of our mental filter is not fixed. Filters can become clogged, but they can also become more porous, so that the “measly trickle” that emerges is increased. As a consequence of this “ever-fluctuating threshold,” experiences such as telepathy, clairvoyance and precognition may occur. Throughout human history, techniques have been developed to alter this threshold in favor of expanded awareness, as seen in various mystical, religious, spiritual, and native traditions.

**CREATIVITY**

The “cash value” of the beyond-the-brain models of mind-matter interaction can be seen in the domain of creativity. Physicalistic models of brain function fail to explain, for example, the mind-boggling feats of savants, who are commonly mentally impaired, or the genius of prodigies such as the great mathematician Srinivasa Ramanujan. But if all individual minds are connected with one another and to a plenum of consciousness that transcends ordinary awareness, and if the threshold between expanded and contracted awareness is continually shifting, individuals might have occasional access to all conceivable knowledge, past, present, and future. This could account for what F. W. H. Myers called a “subliminal uprush” of genius-level creativity and understanding.

These “uprushes” can be spectacular when they occur in children. Developmental psychologist Joseph Chilton Pearce reports a striking example. When he was in his early thirties, teaching humanities in a college, he was engrossed in theology and the psychology of Carl Jung. Pearce describes himself as “obsessed” by the nature of the God-human relationship, and his reading on the subject was extensive. One morning as he was preparing for an early class, his five-year-old son came into his room, sat down on the edge of the bed, and launched into a twenty-minute discourse on the nature of God and man. Pearce was astonished. He states:

He spoke in perfect, publishable sentences, without pause or haste, and in a flat monotone. He used complex theological terminology and told me, it seemed, everything there was to know. As I listened, astonished, the hair rose on my neck; I felt goose bumps, and, finally, tears streamed down my face. I was in the midst of the uncanny, the inexplicable. My son’s ride to kindergarten arrived, horn blowing, and he got up and left. I was unnerved and arrived late to my class. What I had heard was awesome, but too vast and far beyond any concept I had had to that point. The gap was so great I could remember almost no details and little of the broad panorama he had presented…. He wasn’t picking up his materials from me. I hadn’t acquired anything like what he described and would, in fact, be in my mid-fifties and involved in
meditation before I did.... My son had no recollection of the event.\textsuperscript{90}

Many consciousness researchers recognize that there are deeper ways of knowing than the rational, logical, analytical methods usually attributed to “doing science.” These deeper ways do not deny the physical senses and reason, but they include and transcend them. We get glimpses of this process from exemplars who have employed them. An example is Thomas Edison, America’s great inventor, who stated:

People say I have created things. I have never created anything. I get impressions from the Universe at large and work them out, but I am only a plate on a record or a receiving apparatus — what you will. Thoughts are really impressions that we get from outside.\textsuperscript{91}

Logic, reason, and intellectual analysis take a back seat in this unfolding. As Eugene Wigner, Nobel laureate in physics, put it, “The discovery of the laws of nature requires first and foremost intuition, conceiving of a picture and a great many subconscious processes. The ... confirmation of these laws is another matter.... [L]ogic comes after intuition.”\textsuperscript{92} Baron Carl Friedrich von Weizsäcker, the renowned physicist who was a student of the legendary physicist Werner Heisenberg, thought similarly about creativity and discovery in science:

A great scientific discovery ... is often described as an inspiration or a special gift of grace which comes to the researcher when and as it pleases, like the answer from “another authority” and then almost without effort on his part. It is never viewed as the inevitable result of his research effort. Here we find the often disturbing and happy experience: “It is not I; I have not done this.” Still, in a certain way it is I — yet not the ego ... but ... a more comprehensive self.\textsuperscript{93}

Psychiatrist Carl G. Jung conceived of a timeless reservoir of information not unlike Edison’s image of “impressions from the Universe at large”:

As a matter of fact we have actually known everything all along; for all these things are always there, only we are not there for them. The possibility of the deepest insight existed at all times, but we were always too far away from it.... Originally we were all born out of a world of wholeness and in the first years of life are still completely contained in it. There we have all knowledge without knowing it. Later we lose it, and call it progress when we remember it again.\textsuperscript{94}
The unfolding of this knowledge is revelatory. It cannot be manipulated. As Aldous Huxley said,

Understanding is not inherited, nor can it be laboriously acquired. It is something which, when circumstances are favorable, comes to us, so to say, of its own accord. All of us are knowers, all the time; it is only occasionally and in spite of ourselves that we directly understand the mystery of given reality.95

Still, we are not helpless. Although the knowledge cannot be commanded, it can be invited. We can set the stage for the revelation. This seeming paradox has been emphasized repeatedly in the world’s great spiritual traditions. As historian of religion Huston Smith, mentioned above, says, from the Christian tradition, “Everything is a gift, but nothing is free.”96 Vivekananda, from the Hindu perspective, agreed: “The wind of God’s grace is always blowing, but you must raise your sail.”97 The message from Islam is the same. As the Sufi mystic Bastami said, “The knowledge of God cannot be attained by seeking, but only those who seek it find it.”98

RESISTANCE

Open minds toward the evidence we have examined can be hard to come by. Closed minds, of course, are nothing new — not just toward consciousness-related phenomena, but toward new developments in the physical sciences as well.99 During the early twentieth century, plate tectonics and continental drift were hotly debated in the field of geophysics. Looking back on this debate, the eminent geophysicist Sir Edward Bullard observed, in words that apply to the current arguments about consciousness-related phenomena,

There is always a strong inclination for a body of professionals to oppose an unorthodox view. Such a group has a considerable investment in orthodoxy: they have learned to interpret a large body of data in terms of the old view, and they have prepared lectures and perhaps written books with the old background. To think the whole subject through again when one is no longer young is not easy and involves admitting a partially misspent youth. . . . Clearly it is more prudent to keep quiet, to be a moderate defender of orthodoxy, or to maintain that all is doubtful, sit on the fence, and wait in statesmanlike ambiguity for more data....100

Max Planck, the founder of quantum mechanics, confronted this problem. He famously said, “A new scientific truth does not triumph by convincing its opponents and making them see the light, but rather because its opponents eventually die, and a
new generation grows up that is familiar with it.” Or as Planck’s view is often paraphrased, “Science changes funeral by funeral.”

Planck’s observation is especially applicable to medicine, my field. I have many excellent colleagues who recoil from any view that contradicts physicalism. This is not surprising. We physicians are continually assured, from pre-med days forward, that physicalism is valid. For instance, in a cameo of the materialistic outlook, the eminent neuroscientist Antonio Damasio, of the University of Southern California, confidently predicted in 1999, the final year of “The Decade of the Brain,” as designated by US President George H. W. Bush:

In an effort that continues to gain momentum, virtually all the functions studied in traditional psychology — perception, learning, and memory — are being understood in terms of their brain underpinnings. The mystery behind many of these functions are being solved, one by one, and it is now apparent that even consciousness, the towering problem in the field, is likely to be elucidated before too long.

And as philosopher Stan V. McDaniel, of Sonoma State University, exulted, the conclusion drawn is that “the mind, self, and consciousness are now entirely within the purview of neuroscience. It follows that all other theories of the mind...are consigned to the trash heap.”

The trash heap is actually a mild sentence for dissenting views; burning is sometimes recommended by dedicated physicalists. When Cambridge biologist Rupert Sheldrake hypothesized that the form and function of living and nonliving entities are influenced by nonmaterial fields, and provided extensive evidence for such in his 1981 book *A New Science of Life*, he was denounced for his apostasy by Sir John Maddox, the esteemed editor of *Nature*. Maddox condemned Sheldrake’s tome as “a book for burning.” It was a punishment that Galileo, who feared burning, and Giordano Bruno, who experienced it, would have understood.

**CONSCIOUSNESS AS FUNDAMENTAL**

The centrality of consciousness in the elaboration of what we call reality is not a radical idea, but one that has a long and storied history since humans began to record such things. This view did not cease to exist with the advent of modern science; its proponents have simply been ignored. Examples include Nobel physicist Erwin Schrödinger:

Although I think that life may be the result of an accident, I do not think that of consciousness. Consciousness cannot be accounted for in physical terms. For consciousness is absolutely fundamental. It cannot be accounted for in terms of anything else.... If we have to decide to have only one sphere, it has got to be the psychic one, since that exists anyway.
Max Planck, the founder of quantum mechanics:

I regard consciousness as fundamental. I regard matter as derivative from consciousness. We cannot get behind consciousness. Everything that we talk about, everything that we regard as existing, postulates consciousness.\textsuperscript{109}

Near the end of his life, Planck further said,

As a man who has devoted his whole life to the most clear headed science, to the study of matter, I can tell you as a result of my research about atoms this much: There is no matter as such. All matter originates and exists only by virtue of a force which brings the particle of an atom to vibration and holds this most minute solar system of the atom together. We must assume behind this force the existence of a conscious and intelligent mind. This mind is the matrix of all matter.\textsuperscript{110}

Psychiatrist Carl G. Jung:

It is almost an absurd prejudice to suppose that existence can only be physical. As a matter of fact, the only form of existence of which we have immediate knowledge is psychic. We might as well say, on the contrary, that physical existence is a mere inference, since we know of matter only in so far as we perceive psychic images mediated by the senses.\textsuperscript{111}

Astrophysicist Sir Arthur Eddington: “In comparing the certainty of things spiritual and things temporal, let us not forget this: Mind is the first and most direct thing in experience; all else is remote inference.”\textsuperscript{112} Sir Martin Rees, Astronomer Royal of England: “In the beginning there were only probabilities. The universe could only come into existence if someone observed it. It does not matter that the observers turned up several billion years later. The universe exists because we are aware of it.”\textsuperscript{113} And David Chalmers, cognitive scientist and philosopher at the Australian National University and at New York University: “Consciousness doesn’t dangle outside the physical world as some kind of extra, it’s there right at its heart.”\textsuperscript{114}

**PHYSICIANS AND CONSCIOUSNESS**

From the foregoing, it may seem as if the defenders of a beyond-the-brain view of consciousness are mainly physicists, consciousness researchers, and philosophers, but I am pleased to report that many physicians are also waking up to
an expanded view of the nature of consciousness. I could cite many examples, but one shall suffice — the late physician Lewis Thomas (1913-1993), already mentioned. Thomas was dean of New York University Medical School and Yale School of Medicine and, later, director of research and president of the Sloan Kettering Institute in New York, now Memorial Sloan Kettering Cancer Center. Thomas was a no-nonsense physician and bioscientist. He also was a gifted poet and graceful essayist. Among the things he questioned was the destiny of consciousness following bodily death. In his 1974 award-winning book of essays, The Lives of a Cell, he wrote:

There is still that permanent vanishing of consciousness to be accounted for. Are we to be stuck forever with this problem? Where on Earth does it go? Is it simply stopped dead in its tracks, lost in humans, wasted? Considering the tendency of nature to find uses for complex and intricate mechanisms, this seems to me unnatural. I prefer to think of it somehow as separated off at the filaments of its attachment, and drawn like an easy breath back into the membrane of its origin, a fresh memory for a biophysical nervous system....

Thomas suggested that our separate brains might be undergoing a kind of functional “fusion,” uniting separate minds in a greater whole that resembles a collective view of consciousness or Mind at Large:

We pass thoughts around, from mind to mind, so compulsively and with such speed that the brains of mankind often appear, functionally, to be undergoing fusion.... Maybe the thoughts we generate today and flick around from mind to mind ... are the primitive precursors of more complicated, polymerized structures that will come later....

**THE STUFFING IN THE KEYHOLE**

Novelist Arthur Koestler wrote, “[We are] Peeping Toms at the keyhole of eternity. But at least we can try to take the stuffing out of the keyhole, which blocks even our limited view.”

The emerging view of conscious we have explored requires removing the stuffing from the keyhole. If we manage to do so, we shall experience something higher — a clearer glimpse of our consciousness, Mind at Large, the Universal or One Mind, the Absolute — not a complete view, for that is beyond our capacity, but a resplendent vision that is as intrinsic to our humanity as our breath and heartbeat. This magnificent view is CPR for the far side of human experience, a vigorous resuscitation of the fact that we are far more than we have recently taken ourselves to be.
Larry Dossey, MD, is the author of twelve books on the role of consciousness and spirituality in health. His most recent book, ONE MIND: How Our Individual Mind Is Part of a Greater Consciousness and Why It Matters, offers evidence that our consciousness is nonlocally infinite, eternal and immortal, and one with all other minds.

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