Editor's Foreword • Bruce Greyson, M.D.

Cheating the Ferryman: A New Paradigm of Existence? • Anthony A. Peake

Cases of the Reincarnation Type with Memories from the Intermission Between Lives • Poonam Sharma, B.A., and Jim B. Tucker, M.D.

Book Review: We Live Forever: The Real Truth About Death, by P. M. H. Atwater • Hank Wesselman, Ph.D.

Letter to the Editor • Ken R. Vincent, Ed.D.

Obituary: Arvin Gibson
Editor's Foreword
Bruce Greyson, M.D. 65

ARTICLES
Cheating the Ferryman: A New Paradigm of Existence?
Anthony A. Peake 67

Cases of the Reincarnation Type with Memories from the Intermission Between Lives
Poonam Sharma, B.A., and Jim B. Tucker, M.D. 101

BOOK REVIEW
We Live Forever: The Real Truth about Death, by P. M. H. Atwater
Reviewed by Hank Wesselman, Ph.D. 119

LETTER TO THE EDITOR
Ken R. Vincent, Ed.D. 123

OBITUARY
Arvin S. Gibson 127
Editor’s Foreword

We start this issue of the Journal with a theoretical article on survival of death by British scholar Anthony Peake. Building on Peter Novak’s argument in the Spring 2002 issue of the Journal that the psyche divides at death into two separate entities, Peake combines insights from quantum physics, neurophysiology, clinical psychiatry, and various mystical traditions to explain the encounter with the “being of light” in near-death experiences (NDEs) as an encounter between the normal, everyday “I” and the higher self. Drawing upon the “many worlds interpretation” of quantum mechanics and upon what he calls the “quantum Zeno effect,” Peake explains the life review and shows how death is an impossibility for any individual—not because the individual survives death of the body, but because at the point of death, the individual necessarily chooses an alternate universe in which he or she still lives.

Some people regard NDEs as evidence that we survive death of the body. If they are, then we might expect some overlap between the vision of the afterlife in NDEs and that provided by other purported evidence of survival. In an empirical study, medical student Poonam Sharma and child psychiatrist Jim Tucker compare the otherworldly realm as experienced in NDEs with that described by children who claim to remember a previous life and also claim to remember an intermission period in an otherworldly realm between lives. They report that descriptions by Burmese children of an intermission period show features similar to Asian NDEs and to the transcendental component of Western NDEs, and they suggest that some features of NDEs that do not overlap with intermission memories in children who claim to remember a previous life may be culture-specific.

This issue includes a book review by research anthropologist Hank Wesselman of NDEr P. M. H. Atwater’s We Live Forever: The Real Truth About Death; and a letter to the editor from psychologist Ken Vincent about the mission and future of the International Association for Near-Death Studies. We end this issue of the Journal sadly, with the obituary of Arvin S. Gibson, whose insightful writings on NDEs and particularly on Mormon approaches to these phenomena often appeared in this Journal.
References


Bruce Greyson, M.D.
Cheating the Ferryman: 
A New Paradigm of Existence?

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“Life reduces itself to a series of epileptic attacks, preceded and followed by a blank.”
Edmond de Goncourt (cited in Lombroso, 1891, p. 342)

ABSTRACT: Survival after death of the body is arguably the most fundamental question facing sentient beings. I present a rationalistic argument for what occurs subjectively at the moment of death, using insights from quantum physics, neurology, perceptual science, psychiatry, and Gnosticism. At the point of death, three events are brought about by neurotransmitters flooding the temporal lobes. First, the dying person “falls out of time” as the speed by which stimuli are processed by the brain is altered. Second, the person’s consciousness splits into two independent entities, the Eidolon (“I”) and the Daemon (“higher self”). Third, the brain starts a “real time” recreation of the subject’s life projected into consciousness of the Eidolon as a reality indistinguishable from the real thing. The Eidolon lives its life again as if it was the first time, but now with a higher self (Daemon) taking the role of a guide. This second life runs in an alternative universe within the consciousness of the perceiver and takes place in the microsecond before the perceiver is seen to die in the universe of any observers. In the observers’ universe, the perceiver dies; but for the dying person, time expands to make that last microsecond last a lifetime. At the end of the second “lifetime,” the same process occurs again in an even smaller segment of time, a literal version of the “Eternal Return.”

KEY WORDS: quantum mechanics; many worlds interpretation; life review; schizophrenia; temporal lobe epilepsy; déjà vu.

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According to ancient Greek myth, the first challenge confronting the recently dead was the crossing of the River Styx. At the riverbank they were met by a ferryman who would, for a payment, take them across to the opposite side, the realm of the dead known as Hades. This being, known as Charon, probably expected to make a fairly good living from the millions of obuli that he would receive. This article contends that Charon has been, for all times past and future, sitting disconsolately awaiting his first customer. Hades on the far bank will remain empty of souls, the screeches of the frustrated harpies echoing across the literally soulless landscape. Charon has been cheated by a trick of subjective temporal perception that ensures that no soul ever arrives at the riverbank, because personal death is an illusion.

To facilitate understanding of how I come to such a conclusion, I need to review the implications for the nature of matter of the latest theories of quantum physics and the relationship of such theories to the mechanism of human consciousness. Taken in isolation, these theories are fascinating and challenging ideas. However, they are rarely placed in the context of modern neurology, perceptual studies, and the evidence for human psychic duality. Central to the “Ferryman Thesis” is that all these seemingly unrelated areas of inquiry need to be brought together and the information reviewed in the light of what we know about near-death experiences (NDEs).

However, in order to appreciate the role of quantum physics and neurology within NDEs, we need to investigate the role of the phenomenon’s “forgotten character.” Like all classic mystery stories, the NDE plot line has its own intriguing stranger, a character whose motivations and reason for existence become clear only when the mystery is unraveled. This entity has a crucial role to play in the whole experience and yet has been curiously overlooked by many researchers. This has been an important oversight, because the entity often called the “being of light” may hold the key to the whole mystery of NDEs.

**The Daemon and the Eidolon**

In many classic NDE reports, the “being of light” appears at the point of death, guides the dying persons through such other elements as the life review, and is usually responsible for announcing that these persons need to return, as “it is not their time.” This being manifests in many ways, usually in a form that is psychologically comforting to the dying person. However, in its classic form the being is simply a presence that communicates verbally or telepathically.
To some researchers, this entity represents a projection from the subconscious of the dying person (Gabbard and Twemlow, 1984; Serdahely, 1987). This is evidenced from the seemingly culturally biased nature of its manifestation. To believers in the afterlife, it is what it seems to be: a relative, an angel, or even God Himself. However, I am of the opinion that this entity is the single most intriguing element of the phenomenon, because it may be proof of another long-held belief, the belief that all human beings consist of not one but two mutually independent consciousnesses (Novak, 1997, 2002, 2003).

This idea is culturally and historically almost universal. The ancient Chinese called these two independent consciousnesses hun and p'o, the ancient Egyptians the ka and the ba, and the ancient Greeks the Daemon and the Eidolon. In each case, the two entities shared their senses and perceptions of the external world but interpreted those perceptions with regard to their own history, knowledge, and personality. For the Greeks, the relationship was an unequal one. The higher self, the Daemon, acted as a form of guardian angel over its lower self, the Eidolon. The Stoic philosopher Epictetus wrote:

God has placed at every man's side a guardian, the Daemon of each man, who is charged to watch over him; a Daemon that cannot sleep, nor be deceived. To what greater and more watchful guardian could He have entrusted each of us? So, when you have shut the doors, and made darkness in the house, remember, never to say that you are alone; for you are not alone. But God is there, and your Daemon is there (Epictetus, 1998/2nd century, 14:11)

The belief was that the Daemon had foreknowledge of future circumstances and events and as such could warn its Eidolon of the dangers. It was as if in some way the Daemon had already lived the life of its Eidolon.

However, the Daemon and Eidolon are more than cultural or theological beliefs. There is compelling evidence from both physiological and psychological experimentation that we all have a duality of consciousness. The human brain has two hemispheres, joined together by what is called the corpus callosum. For many years, surgeons had speculated as to what would happen to personality and consciousness if the callosum were cut and the subject survived.

In the 1960s, surgical techniques had progressed to the extent that such an operation could be attempted on human beings. Neurosurgeons Philip Vogel and Joseph Bogen concluded that certain epileptic patients would gain from such surgery and suffer no serious mental loss. Between 1962 and 1968 they performed nine such operations.
Generally the effects of the operation were beneficial. All of the patients showed some short-term memory loss, problems of orientation, and mental fatigue immediately after the operation, and some of them were unable to speak for two months after the operation. But in all cases there was gradual recovery. Bogen and psychologist Michael Gazzaniga set up a series of tests to discover what changes had actually taken place in these patients. These tests were forever to change our understanding of how the human mind works. In short, they unknowingly confirmed the existence of the Daemon. The senior researcher behind the experiments, Roger Sperry, made the following observation:

In our “split-brain” studies of the past two decades . . . , the surgically separated hemispheres of animals and man have been shown to perceive, learn, and remember independently, each hemisphere evidently cut off from the conscious experience of the other. In man the language-dominant hemisphere further reports verbally that it is not consciously aware of the concomitant or immediately preceding mental performances of the disconnected partner hemisphere. These test performances of which the speaking hemisphere remains unaware obviously involve perception, comprehension, and in some cases non-verbal memory, reasoning, and concept formation of different kinds depending on the nature of the test task. In these and many other respects, the split-brain animal and man behave as if each of the separated hemispheres had a mind of its own. (Sperry, 1976, p. 170)

This analysis was strongly reinforced by the work of psychologist Roland Puccetti, who came to the conclusion that even without commissurotomy there are always two independent centers of consciousness in the human brain. He appealed to the cases where a complete hemisphere was removed. In this event, and whichever hemisphere was left, there remained a person. He argued that if people were unitary, then these operations or circumstances would leave only half a person. Puccetti concluded that the only way he could explain the completeness of the remaining person was by supposing that before the operation there was not a unitary person. He wrote:

He or she was a compound of two persons who functioned in concert by transcommissural exchange. What has survived is one of two very similar persons with roughly parallel memory traces, nearly synchronous emotional states, perceptual experiences, and so on, but differential processing functions. (Puccetti, 1973, p. 352)

Strong reinforcing evidence for the existence of the Daemon can be found in research done into deep trance states. Writing in the late
1970s, Ernest Hilgard became convinced that we all have another being sharing our lives. Hilgard termed this entity the “hidden observer.” In one of his books, Hilgard described a classic test of how this hidden entity is part of our consciousness (Hilgard, 1977). He wrote of a blind student who was hypnotized and, while in a trance state, was told that he would become deaf. The suggestion was so strong that he failed to react to any form of noise, even large sounds next to his ear. Of course, he also failed to respond to any questions he was asked while in his trance state. The hypnotist was keen to discover if “anybody else” was able to hear. He quietly said to the student, “Perhaps there is some part of you that is hearing my voice and processing the information. If there is, I should like the index finger of your right hand to rise as a sign that this is the case” (Hilgard, 1977, p. 186). The finger rose.

At this, the student requested that he be brought out of the hypnotically-induced period of deafness. On being “awakened,” the student said that he had requested to come out of the trance state because “I felt my finger rise in a way that was not a spontaneous twitch, so you must have done something to make it rise, and I want to know what you did” (p. 186). The hypnotist then asked him what he remembered. Because the trance was light, the student never actually lost consciousness; all that occurred was that his hearing had ceased. In order to deal with the boredom of being deprived of both sight and sound, he had decided to work on some statistical problems in his head. It was while he was doing this that he suddenly felt his finger lift. This was obviously strange to him, because under normal circumstances he was, like all of us, the “person” who decides on how the body moves. In this case he was not. Not only that, but “somebody else” in his head was responding to an external request that he had not heard. As far as Hilgard was concerned, the person who responded was the “hidden observer.”

One of Hilgard’s subjects made the following interesting statement about what she experienced, making particular reference to what she sensed was her higher self:

The hidden observer is cognizant of everything that is going on. ... The hidden observer sees more, he questions more, he’s aware of what is going on all of the time but getting in touch is totally unnecessary. ... He’s like a guardian angel that guards you from doing anything that will mess you up. ... The hidden observer is looking through the tunnel, and sees everything in the tunnel. ... Unless someone tells me
to get in touch with the hidden observer I'm not in contact. It's just there. (Hilgard, 1977, p. 210)

It seems that the deeper the trance, the more chance there is of encountering this being; or so it seems from the work of psychologist Charles Tart. In the 1960s and 1970s, Tart was keen to see just how deep a trance state could be brought about by hypnotism. Depth cannot be described solely by the responsiveness to suggestion. Indeed, at greater depths responsiveness can actually disappear. In Tart's experiments, the subjects were required to assign self-consistent numerical values to the depth they subjectively felt.

Tart had a particularly good subject called William who was in the highest 1 percent or 2 percent of hypnotic responsiveness. He had been hypnotized 18 times previously for various reasons, often with an emphasis on depth. William usually gave depth ratings of 40 or 50, with amnesia experienced at 30. He had never gone beyond 60. It was agreed that an attempt would be made to take him much deeper than he had gone before. He was instructed that, at each 10-point interval on a depth continuum, he should remain at that depth as the experimenter had him describe what he was experiencing.

As he went through the levels, he experienced the normal effects: early relaxation followed by a sensation of distance, an increase in peacefulness, and a gradual withdrawal from the environment. Beginning at a level of about 50 on this scale, he began to have distortions of consciousness. These distortions were similar to those reported in mystical experiences. At this stage, the passage of time became meaningless and the body seemed to be left behind, and a new sense of infinite potentiality emerged. However, at a level of 50, another consciousness was experienced, an individual that William described as being him but not him. This "other William" showed that he was fully aware of the experiment and what was going on. What is strange was that this other being was amused by the attempts of the psychologists to understand the human mind. Tart described this event as an "intrusion." The other entity accompanied William from level 50 to level 90, where it totally disappeared. It was at its strongest at level 70 (Tart, 1975, pp. 191–200).

What is of great interest is that the "intrusion," at the early stages of the now deeper hypnosis of the experience, was amused by William's participation in these experiments. Amusement is not something one would expect of the nondominant hemisphere of the brain. This
“intrusion” seemed to be a being that knew exactly what was going on and was observing from a position of superiority, not inferiority.

Most “normal” people can live their whole lives without ever being aware of their Daemon. This other self quietly observes what is going on. However, there is strong anecdotal evidence that the Daemon does communicate with its Eidolon on a regular basis through dreams, hunches, and occasionally through direct verbal contact. These “communications,” dream or otherwise, are nearly always a warning to avoid a certain course of action. Often those who heed these warnings survive to report the fact. It is as if the Daemon knows the future and actively involves itself in preserving the ongoing existence of its lower self.

The late Julian Jaynes argued that this other entity is in regular communication with its lower self (Jaynes, 1976). His interest was stimulated by a particular vivid auditory hallucination that occurred to him when he was a student. This hallucination stimulated him to research this particular phenomenon. He was surprised to discover that among the Anglo-Saxon population, one man in 12 experienced this form of hallucination. For women it was even more common: one in eight. Indeed, this was quite low in relation to other groups. In Russia the figure was twice as high, and in Brazil almost 25 percent of the population had had, or would have at some stage in their lives, a similar experience. These were normal people, not those under mental or psychological stress. From this, Jaynes concluded that under certain circumstances, many if not all individuals might experience auditory hallucinations, the differences being purely cultural.

For Jaynes, this particularly vivid form of auditory hallucination could explain the universal religious experience of communicating with the gods. It is quite understandable how an individual, living in a culture or a historical period where the existence of gods is unquestioned, could naturally assume the voice to be the words of a god. The curiously portentous and somewhat obscure meaning of what the voice said then reinforced this belief.

However, for Jaynes there was more to it than that. He pointed out that for 99 percent of human evolution, men and women grouped together in tightly bonded, mutually dependent groups. Within these groups each individual had no sense of individuality, no sharp sense of “ego-self.” The concept of selfhood came about, according to Jaynes, about the first millennium BC. Jaynes based his theory upon studies that he made of early writings such as Homer’s *Iliad* (circa 1000 BC). He noted that this book had no reference to concepts such as thought and mind, human actions being the results of the gods willing men to do
things. From this he concluded that, at some time in the recent past, human consciousness had split into two entities. Not only that, but it was this very process of splitting that brought about self-consciousness.

So what of modern humans? If Jaynes’ statistics are to be believed, then many of us interact with our Daemon on a regular basis. As such, the implication is that this “other person” shares our life with us, unseen and unheard, until he or she decides that intervention is needed. Brian Inglis (1990) described various modern equivalents. An example is the tale told by the Italian opera singer Tito Gobbi, who wrote in his autobiography of a time when he was driving far too fast on a precipitous mountain road. As he became more reckless he heard his brother Bruno’s voice

so distinctly that he seemed to be sitting beside me, saying “Stop – instantly.” Instinctively I obeyed, coming to a halt on a wide grass verge, practically the only spot of any width in the whole path. A few minutes later, round the narrow bend came an articulated lorry out of control. (Inglis, 1990, p. 85)

In another example, the writer Philip Paul was walking to work during the London Blitz in World War II when a voice told him to stop. He was, quite naturally, surprised and his rational mind decided to ignore the intruder. He later wrote:

The warning persisted. So, putting a foot on a pile of rubble, I pretended to tie a shoelace. At that moment, the high wall ahead collapsed into the alleyway, filling it ten feet high and burying walkers a few yards ahead of me. (Paul, 1985, p. 25)

In these cases the “voice” saved the life of its lower self. Indeed, in both cases the Daemon showed an ability to see the future. Suffice to say that without these interventions it is likely that neither Paul nor Gobbi would have survived to tell the tale.

However interesting these “Daemonic interactions” are, they are not only rare but also anecdotal. However, there is one psychological state in which the Eidolon is regularly not only in communication with the Daemon, but actually shares some of the sensory inputs of its hidden twin. That state is termed schizophrenia.

**Schizophrenia**

Sufferers of schizophrenia show some very curious effects that fail to fit in to any easy explanation. An example is the results of a survey of profoundly deaf schizophrenics, in which 16 out of the 22 individuals
questioned "heard" the voice of the hidden observer (Rainer, Abdullah, and Altschuler, 1970). The issue here is how persons who have never heard another human voice can somehow hear the voice inside their heads. Indeed, how does a congenitally deaf person understand language, having never heard it? One 32-year-old woman who had been born deaf was continually being told off by her voice about having a therapeutic abortion a few years previously (Rainer, Abdullah, and Altschuler, 1970).

If we are to accept the evidence presented, then it is logical to conclude that the human brain hosts not one but two self-conscious states. These two entities share all sensory inputs, but the seemingly more advanced but elusive being processes the inputs over a far broader area of the sensory spectrum. As such, it is not unreasonable to consider that schizophrenia seems to expose the lower, everyday consciousness, to the sensory environment of the hidden observer. This allows direct communication between the two on a regular, if not continual, basis. It is as if the two consciousnesses overlap in some way.

The causes of schizophrenia remain elusive. However, postmortem examinations show that the number of dopamine receptors in parts of the basal ganglia of the brain is increased in chronic schizophrenia. Could it be that dopamine somehow facilitates access to areas of consciousness not normally available to everyday consciousness? An Eidolon perceiving this "broadband" of information will simply not have the psychic framework to process such an assault on the senses. This assumption seems to be confirmed by the descriptions that schizophrenics give to their perception of the outer world. For example, nurse Norma MacDonald described her schizophrenic break in this way:

> Each of us is capable of coping with a large number of stimuli, invading our being through any one of the senses. We could hear every sound within earshot and see every object, line, and colour within the field of vision, and so on. It's obvious that we would be incapable of carrying on any of our daily activities if even one-hundredth of all the available stimuli invaded us at once. So the mind must have a filter which functions without our conscious thought, sorting stimuli and allowing only those which are relevant to the situation in hand to disturb consciousness. (MacDonald, 1960, p. 219)

Could this be what the Daemon sees, hears, and senses as regards its environment? As we shall see below, reality — whatever it is that is "out there" — is not the ordered, sensible world that is presented to consciousness through our sensory inputs. It is a holographic miasma
of colors, sounds, and smells that swirl and buzz. The Daemon perceives the universe as it really is. For an Eidolon to perceive such a world would be to invite insanity and paranoia (from the Greek \textit{para nous}, “other mind,” perhaps a semantic acknowledgement of the Daemon-Eidolon duality). It is no wonder that schizophrenics behave so strangely. They are adrift in a sensory world that is beyond understanding. Within this world they can also sense the presence of another within their mind. They know that the Daemon exists, and this adds to their seeming insanity. However, within this confusion lies another clue to the real reason for our existence in this world: the inescapable fact that schizophrenics, in accessing the world of this other entity, also slip out of time. Eugen Bleuler, the doctor who first coined the term “schizophrenia,” made the following observation about his patients’ hallucinated voices:

Perceptions can also be transposed into voices without the patient being at all aware of it. In that event the voices become prophetic; a patient hears, “Now someone is coming down the hall with a bucket of water”; then the door opens and the prophecy is fulfilled. (Bleuler, 1950/1911, p. 98)

Here we have not only a direct verbal communication from a Daemon to a schizophrenic Eidolon, but also evidence that for the Daemon temporal flow has no meaning. It knows with certainty what is about to happen next.

This “slipping out of time,” knowing what is about to happen next, perceiving the future as a memory of the past, is clearly related, if not identical, to another well-documented but little understood phenomenon, \textit{déjà vu}. An example of this is the following:

A chronic schizophrenic woman who had an exacerbation of her illness seemed to have lengthy episodes of \textit{déjà vu}, which she used in a prophetic way to indicate she knew everything that was going to happen next. For example, she began an interview by stating, “I know all about this. I’ve been through this same thing many times before. I know what is going to happen.” She continued by describing the situation in minute detail to prove her foreknowledge. (Kirshner, 1973, pp. 247–248)

What exactly is happening here? Is \textit{déjà vu} a short-term vision of the future or is it a memory of a past event? In order to fully appreciate this common sensation, we need to investigate the sensory world of another group of interesting people, those who suffer from what has been known since ancient times as “the falling sickness.”
Temporal Lobe Epilepsy and *Déjà Vu*

In a similar, if less extreme, way to schizophrenics, those who suffer from temporal lobe epilepsy report that they perceive reality in a totally different way from the nonepileptic population. Indeed, so unusual are these perceptions that epileptics are continually frustrated by the inadequacy of language. Some report transcendence and a perceiving of the infinite. Others say that within the aura they find God. Self evidently, something very peculiar is taking place. Could it be that, like schizophrenics, epileptics can also access the world of the Daemon? Let us review the evidence.

If you accept my "Daemon hypothesis," you accept that we all have two aspects to our "self." The everyday self, or Eidolon, lives within time and perceives a limited amount of what we term "reality." The other aspect of the self, the Daemon, exists outside of time and knows not only what has happened but also what will happen. As such, any accidental access to the Daemon's perceptions will involve heightened sensory awareness and an ability to foresee the future.

Throughout recorded history, it has been believed that epileptics have the gift of second sight. An example of this is found in the works of the Arabic author Ali Ibn Rabban al-Tabari. Writing in the 9th century, he discussed the illness known as *sar’un* or "the falling sickness": "The people call it the diviner’s disease because some of them prophesy and have visions of wondrous things" (Rabban al-Tabari, 1928/9th century, p. 138).

Indeed those that could foretell the future, the *kāhan*, were thought to be possessed by the *djinn*, demons that caused madness and epilepsy. As such, it was believed that another entity took them over during the epileptic attack, and that entity was the one responsible for the prognostications. Here we have evidence of all our suspicions regarding the duality of human consciousness. In the first place, we see the link between possession and epilepsy. We then have the belief that the victim is taken over by another entity, a *djinn* or demon. And then we have a perceived link between madness (perhaps schizophrenia) and epilepsy. In addition, Rabban al-Tabari wrote that these *kāhani* also had "visions of wondrous things." In our modern terminology, we would describe this as expanded or higher consciousness.

However, there is another factor that is known by neurologists to be inextricably tied to epilepsy, and that factor has profound echoes of the "falling out of time" experienced by schizophrenics. The factor in
question is *déjà vu*. *Déjà vu* is the most common psychic phenomenon (Neppe, 1983a, 1983b, 1983c). However, it is so common among epileptics, particularly as part of the pre-seizure aura, that it is considered to be one of the classic symptoms.

There have been various attempts to explain this experience, but none has really succeeded. The reason for this failure may be that *déjà vu* is exactly what those who experience it claim it to be: a re-living of an event, brought about by a “hiccup” in temporal perception. But why do epileptics, particularly temporal lobe epileptics, experience *déjà vu* with such regularity? Again, the solution lies in brain chemistry. In the same way that the perceptions of schizophrenics are heightened by the release of dopamine into the brain, so it is that another neurotransmitter has the identical affect on temporal lobe epileptics: it gives accidental access to the perceptions of the Daemon.

A seizure in either of the temporal lobes may be caused by a neurotransmitter known as glutamate. Under normal circumstances, glutamate is the main neurotransmitter within the temporal lobes, and in particular the hippocampus. When a message is transferred from synapse to synapse, it is this chemical that brings about the transfer. Usually this is a harmless process. However, in large amounts glutamate can overexcite the synapses and cause a massive increase in electrical activity. Once started, this rapidly gets out of control and a seizure takes place. However, there is a short period of time when the excess glutamate stimulates neuronal activity *without* loss of consciousness. This period is perceived by the person affected as the pre-seizure aura. It is this increased activity, while still allowing consciousness, that brings about the Eidolon’s access to the world of the Daemon. Thus, in the same way that dopamine allows the schizophrenic to open the door, so it is with glutamate in temporal lobe epilepsy.

During this flood, there can be an immediate loss of temporal awareness. For a few seconds, the Eidolon glimpses reality as it really is, and sees time as an illusion. For that period, the Eidolon’s “specious present,” as psychologist William James (1950/1890, p. 613) termed it, becomes longer. In its confusion, the Eidolon thinks that it is seeing a re-run of the previous few seconds of perception. This is not the case. What has happened is that the glutamate flood has temporarily nullified the usually effective censorship of real perception. This is perceived as a *déjà vu*. Within a few seconds, the processes of censorship regain control, and either the seizure begins or normal perceptions are regained.
So far I have presented evidence that all human beings consist of not one but two interrelated entities. These entities, termed the Eidolon and the Daemon, share the same sensory inputs of sight, sound, taste, touch, and smell. However, the Daemon perceives reality as a riot of swirling colors, sounds, and sensations, not as the ordered world presented to the senses of the Eidolon. For some individuals, specifically schizophrenics and temporal lobe epileptics, access to the Daemonic worldview is facilitated by neurotransmitters such as dopamine and glutamate. The Daemon also perceives time in a totally different way from the Eidolon. For the Daemon, time does not flow from past to present, but is seen as a continuum where past, present, and future all coexist.

So which version of reality is real? Is it the day-to-day normality of the world of the Eidolon, or is there another reality hidden behind the phenomenological world that only the Daemon and the occasionally confused Eidolon perceive? Is the film *The Matrix* (Wachowski and Wachowski, 1999) more than just a fiction? The answer lies in the fundamental nature of reality itself, which, if modern quantum physics is to believed, is not at all as it seems.

**Quantum Physics**

Matter may appear solid, but this is a perceptual illusion. Its basic constituents are fuzzy waves of probability. All material in the universe owes its solidity to billions upon billions of molecules bunched so closely together that they make up a physical mass. These molecules are, in turn, made up of atoms, small, indivisible “lumps” of matter. However, painstaking experimentation by physicists has shown not only that these little lumps consist mostly of empty space, but also that the particles making up the small percentage of “solidity” are themselves mere waves of probability.

The late David Bohm asserted that these findings of modern particle physics implied that there is a deeper reality beneath the quantum world. This underlying or “implicate order,” as he termed it, links all things. The concept of an underlying implicate order linking all things can explain action at a distance, telepathy, collective consciousness, and similar phenomena. However, Bohm also believed that external reality is also not quite as it seems. He considered that the seemingly erratic and illogical behavior of the subatomic world could be explained if every part of the observed universe was intertwined with every other, or, as he
termed it, "enfolded." Underlying our perception of separate things is a hidden order of wholeness that Bohm likened to a flowing stream:

On this stream, one may see an ever-changing pattern of vortices, ripples, waves, splashes, etc., which evidently have no independent existence as such. Rather, they are abstracted from the flowing movement, arising and vanishing in the total process of the flow. Such transitory subsistence as may be possessed by these abstracted forms implies only a relative independence or autonomy of behaviour, rather than absolutely independent existence as ultimate substances. (Bohm, 1980, p. 48)

This enfolding involves everything that exists, including human consciousness. Bohm wrote:

In the implicate order the totality of existence is enfolded within each region of space (and time). So, whatever part, element, or aspect we may abstract in thought, this still enfolds the whole and is therefore intrinsically related to the totality from which it has been abstracted. Thus, wholeness permeates all that is being discussed, from the very outset. (Bohm, 1980, p. 172)

Bohm likened the universe to a huge hologram, containing copies of itself within its own structure. He termed this the "holomovement." If a holographic picture plate is smashed, each broken shard will contain a small but perfect replica of the original picture. So it is with the holographic universe. For example, if Bohm is to be believed, the Milky Way can be found in a thumbnail, and within that Milky Way will be the Earth containing that same thumbnail (Bohm and Peat, 1987).

Bohm then expanded upon the hologram analogy to posit that the world outside of consciousness is a cacophony of swirls and splashes, in the same way that the image on a holophotographic plate is when illuminated with normal light. It is only when laser light is shined upon the plate that the image leaps out in its three-dimensional glory. So it is with "reality": we can make sense of the confusion only when consciousness, in the same way as the laser, "illuminates" the incoming images and sounds inside the brain. In this way we again create our own internal and subjective projection of reality.

According to neurologist Karl Pribram, the hologram idea also holds true also for memory. Pribram started on his quest in 1966 when he proposed that the brain might interpret information the same way a hologram records an image. He suggested that the fine fibers in the nerve cells digitize incoming information and store the data in this format. The brain then decodes these stored memory traces the way a hologram decodes, or more accurately de-blurs, its original image.
Pribram proposed that the brain itself acted as a form of lens, a lens that brought the blurred potential of a holographic universe into sight, sound, color, and all the other sensory inputs that make the “outside” become “inside.” Just as the image on a holographic photographic plate is a swirl of blurs and fuzziness, so it is with the universe “out there.” It is only when the lens of the brain, acting like the laser light on a holographic plate, brings out the three-dimensional image that the universe comes into being. As Pribram said:

Maybe reality isn’t what we see with our eyes. If we didn’t have that lens – the mathematics performed by our brain – maybe we would know a world organized in the frequency domain. No space, no time – just events. Can reality be read out of that domain? (Ferguson, 1982, p. 22)

This revolutionary explanation of consciousness and its relationship with “reality” has recently come to the attention of mainstream science. In August 2003, *Scientific American* took the subject as its cover story, in which Jacob Bekenstein wrote:

An astonishing theory called the holographic principle holds that the universe is like a hologram: just as a trick of light allows a fully three-dimensional image to be recorded on a flat piece of film, our seemingly three-dimensional universe could be completely equivalent to alternative quantum fields and physical laws “painted” on a distant, vast surface. . . . Physicists hope that this surprising finding is a clue to the ultimate theory of reality. (Bekenstein, 2003, p. 60)

This is reality as perceived by the Daemon, a being that exists in a sensory world very different from its Eidolon. It exists outside of time and, presumably, space. It perceives “reality” as it really is: a confusing mass of signals and images illuminated by the whole electromagnetic spectrum. To beings not ready for such an explosion of inputs, such as Eidolons, this would drive them insane. Could it be that the chemical imbalances that cause schizophrenia bring about aberrant behavior because they change the “frequency” by which the brain receives incoming data? The “tuning” moves into the frequency normally reserved for our “hidden observer,” and the sensory floodgates are flung open to drown the unsuspecting Eidolon. Physicist Raynor Johnson in his tower analogy described how this can seem to a schizophrenic Eidolon. He said:

We are each rather like a prisoner in a round tower permitted to look out through five slits in the wall at the landscape outside. It is presumptuous to suppose that we can perceive the whole of the landscape through these slits—although I think there is good evidence
that the prisoner can sometimes have a glimpse out the top!
(Ferguson, 1973, p. 226)

Pribram quite reasonably argued that reality is not perceived directly, but through this internal projection process. A three-dimensional copy of reality is projected by the brain (lens) and then experienced by the internal observer. The images thus generated are then stored within the structure of the brain in the same way that a digital video disk (DVD) stores pictures and sound images. These images do not degrade and can then be recalled at a later date. The Daemon perceives reality “before the lens,” as it were. The Eidolon, on the other hand, sits on the other side and views a decoded, reassembled, and recorded version of what is “out there.” This presentment to consciousness may be recordings of events that took place ten minutes, ten months, or ten centuries ago. For the Eidolon, there is no way of telling, because the illusion of reality is so close to the real thing that he or she simply cannot tell the difference.

The idea that reality, as it is perceived through our senses, is only a fairly accurate approximation of that reality was termed the “ecological model of perception” by Pribram. He felt that this viewpoint, however comforting, is inadequate in explaining perception, and he offered his “holographic model” to address these issues. In this model, images are constructed when input from the inferior temporal cortex activates and organizes the holographic store. Images are then produced and

are therefore as much a product of the “information residing in” the organism, as they are of “information” contained in the environment. Philosophically speaking, the holonomic model is Kantian and Piagetian; the ecological model partakes of a critical realism.
(Pribram, 1977, pp. 88)

In other words, the internal projection of the external world is mixed with internally generated subjective thoughts, feelings, and interpretations. Put simply, we take external “reality” and we make it into our own subjective internal world: we all create our own version of reality.

Pribram justified this in a very simple and straightforward way. He cited examples of people who suffer from severe perceptual problems such as macropsia and micropsia, where a person perceives objects as being much bigger or much smaller than other people do. Individuals with macropsia see these objects in much more detail than “normal” people do. He gave an example of one of his own patients who, after a blow on the head, suffered bouts of severe vertigo. At the end of an
attack he would see the world upside down. His visual system was interpreting the input from the retina in totally the wrong way. This would persist until another vertigo attack placed his vision the right way round. The implication here is clear. This man's visual system was acting like a television that was confusing the signal, not like a person who was directly interfacing with "out there."

As these internally generated versions of reality are, in a very real sense, a recording, it is therefore reasonable to regard them as "memories." These endogenous memories are as different from normal memories as an IMAX cinema with three-dimensional virtual reality images and surround-sound is from a black-and-white photograph. A totally believable three-dimensional multimedia re-living of the event, with such clarity that it is impossible to differentiate it from the original, engulfs the observer. This I term the "Bohmian IMAX."

The idea that such memories not only exist, but also can be spontaneously re-lived, can be supported by the events recorded by neurosurgeon Wilder Penfield. Penfield, having placed an electrode on the exposed cortex of his conscious patients, was able to stimulate total memory recall for the patient. Some of the patients insisted that these were not simply memories, but an actual re-living of the recalled event. It was as if they had gone back in time. Penfield wrote the following telling comments:

"Time's strip of film runs forward, never backward, even when resurrected from the past. It seems to proceed again at time's own unchanged pace. It would seem, once one section of the strip has come alive, that the response is protected by a functional all-or-nothing principle. A regulating inhibitory mechanism must guard against activation of other portions of the film. As long as the electrode is held in place, the experience of a former day goes forward. There is no holding still, no turning back, no crossing to other periods. When an electrode is withdrawn, it stops as suddenly as it began.

A particular strip can sometimes be repeated by interrupting the stimulation and then shortly reapplying it at the same or a nearby point. In that case it begins at the same moment of time on each occasion. (Penfield and Roberts, 1959, p. 53)

Penfield concluded:

"Every individual forms a neuronal record of his own stream of consciousness. Since artificial re-activation of the record, later in life, seems to re-create all those things formerly included within the focus of his attention, one must assume that the re-activated recording and the original neuronal activity are identical. Thus, the recorded pattern of neuronal activity may be considered much more than"
a record, for it was once used as the final stage of integration to make consciousness what it was. (Penfield and Roberts, 1959, p. 54)

The implication therefore is that, as Eidolons, we all exist in a three-dimensional projection generated by our own brains. What we perceive is an illusion, an illusion very much in keeping with the central tenets of Eastern religions such as Buddhism and Hinduism. A Hindu would understand this to be the state known as *maya*, and Buddhist would recognize it as *samsara*. So the "reality" that you perceive as "out there" is not out there at all. It is all an illusion. Rather like the little boy who pulled himself off the ground by his bootstraps, so you create your own universe in which you, or more specifically, your brain, is a part.

Indeed, at its most fundamental level, matter itself shows this reciprocity to such an extent that physicist Geoffrey Chew called his model of reality "bootstrap theory." Chew was particularly interested in hadrons, strongly interacting subatomic particles. For Chew, "each particle helps to generate other particles, which in turn generate it" (Chew, Gell-Mann, and Rosenfeld, 1964, p. 74). Or, to put it another way, every hadron is made up of combinations of other hadrons, including itself. And so it is with your brain in your universe, and my brain in mine. However, the suggestion that the universe is an internally created illusion implies that each consciousness carries within its brain a fully functioning, three-dimensional version of that universe. As such, to accept such a proposition one has to accept that there are literally millions upon millions of personal universes, each one being generated by the thought processes of a single conscious observer. Can this be possible?

**The Many Worlds Interpretation**

Believe it or not, the answer is, "Yes." The observed behavior of subatomic particles has forced scientists to accept one of two seemingly conflicting theories: the statistical or "Copenhagen interpretation," and the "many worlds interpretation." Experimentation has shown that entities such as electrons need an act of observation to bring them into reality. Before they are observed these things are nothing but a wave of probabilities, or as they should be correctly termed, "wave functions." They need an "observer" to confirm their probability of location into an observed certainty and, in doing so, collapse them into a solid point of matter. Without an observer they cannot become real. Therefore
a universe with no observers is a physical impossibility, because without a conscious observer to collapse the wave function, matter cannot exist.

It is important to realize the implications of this Copenhagen interpretation. All matter, including tables, chairs, the sun, and your brain, are made up of these particles. A moment's reflection will bring home the inherent weirdness of such a belief. If we are to accept that consciousness is a function of brain processes, then consciousness needs matter in order to exist. But matter needs consciousness to come into existence. This, like the boy who pulled himself into the air by his own bootstraps, is probably the ultimate paradox.

Such was the paradox that prompted physicist Erwin Schrödinger to propose a thought experiment, to prove the absurdity of such a belief. Schrödinger asked us to imagine a cat placed inside a sealed box with no windows. Also inside this box is a bottle of deadly gas. Poised above this box is a small hammer being held back by a latch. In turn, this latch is connected to a detector. This detector is programmed to scan a piece of radioactive material for the decay of one particular atom, an event that is known to have a 50-50 probability of taking place or not taking place.

If the atom does decay, the detector will send a signal to the latch, instructing it to release the hammer. The hammer then falls upon the bottle, smashing it and thus releasing the poisonous gas, resulting in the immediate death of the cat. Conversely, if no decay takes place, then the hammer does not fall and the cat continues to live. The objective state of the cat cannot be confirmed until the box is opened and an observer looks inside. According to the Copenhagen interpretation, it is this action of observation that facilitates the collapse of the probability wave, which in turn will bring about the decay or non-decay of the atom in question. Thus, until observed, the cat is in a curious alive-and-dead situation (Schrödinger, 1935).

For Schrödinger, such a proposition was clearly absurd. However, a young researcher named Hugh Everett proposed a simple revolutionary solution to the dead-and-alive state of the cat. He explained that the universe could accommodate both states by splitting into an identical copy of itself at the point of the quantum event. In one universe, the atom does not decay and therefore the cat lives; and in another, the particle does decay and the cat dies. There are then two observers, each in his or her separate universe, who open the box to see either a dead or alive cat (Everett, 1957).

At first sight, this seems even more preposterous than the Copenhagen interpretation. For years, those who doubted such an
alternative version of reality were happy that such an experiment could not be reproduced. However, in 2000 a group of researchers reported that they had reproduced the impossible: an equivalent to Schrödinger's cat experiment (Friedman, Patel, Chen, Tolpygo, and Lukens, 2000). Their experiment used superconducting quantum interference devices (SQUIDs), ring-shaped devices in which persistent currents, made of billions of pairs of electrons, can circulate in either a clockwise or a counterclockwise direction without decaying. The experimenters started with a current flowing in one direction, and then illuminated the SQUID with microwaves that excited the system to a higher-energy state. The system could then tunnel from its original state, with the current flowing in the one direction, into a state with the current flowing in the opposite direction, and back again.

The question is essentially whether the system remembered or forgot its quantum state as it tunneled. To answer this, the research team measured the probability of finding the current flowing in the opposite direction as the shape of the double-well potential was changed. The results were exactly as predicted by assuming that the system was in a macroscopic superposition of the two states. These results provided clear evidence that multiple universes do exist. Indeed, recent work by physicist David Deutsch has shown that we can actually measure the effect that these alternative universes have on our version of the newly termed "macroverse" (Deutsch, 1998).

If the results of the SQUID experiment can be taken at face value, then Everett's idea becomes more tenable as an alternative to the statistical or Copenhagen interpretation. However, in doing so, it does not invalidate the more solipsist implications of the Copenhagen interpretation. Indeed, if every possible outcome of every action takes place in at least one of the multiple versions of reality, then it can be argued that each conscious being exists in its own version of reality. If this is the case, then can it not be argued that in your own universe you have to continue to exist, because to die would entail your universe ceasing to exist? One of the implications of the SQUID experiment is that events at the quantum level of reality can effect those in the macroscopic world. Up until then, it was always assumed that the weird behaviors of particles could never spin over to our world. However, if this is now the case, there is one place where the world of quantum behavior does interface with our world, and that place is in the brain.

Within each brain, human or otherwise, are cells called neurons. Each neuron interfaces with dozens of others across small gaps called
synapses. These synaptic gaps are extremely short, about 200 to 300 angstroms across (about 2–3 millionths of a centimeter). Messages are transferred across the brain through these synapses. Depending upon what is being thought, certain synapses transfer electric current between them in the form of calcium ions in a process called “firing.” Some neurons will fire across the synapse and others will not. So rather similar to traffic lights that are red or green, the flow of messages across a brain can be channeled in various directions. The width of these synaptic gaps is so small that they approach the atomic scale of dimensions. At this point, quantum events become important. It is therefore possible that a synapse, teetering on the edge of its “firing threshold,” could be influenced by an event at the quantum level. In other words, the firing or non-firing of a neuron may depend upon a similar quantum event as that outlined in the Schrödinger’s cat thought experiment.

Consider a calcium ion, which has a 50 percent probability, according to Schrödinger’s equations, of activating its target receptor. Imagine that that receptor will make the difference between two possible states of mind. Imagine one of those split-second decisions being influenced by this event. For example, a subject is in his car approaching a set of traffic lights that are amber. He makes a decision whether to accelerate and go through the lights or to hold back and stop. The result of this decision is transferred across the synapse by neurotransmitters. This neurotransmitter tells his leg to press on either the accelerator or the brake. At that point, we have a quantum event taking place. He presses the accelerator, crosses the lights, and his car gets hit side on by a large truck. He dies instantly.

However, in a very real sense, his death is only one outcome. In another, he may have decided to stop. At that point, we have two alternate realities: one dead driver and one alive. The driver followed his own world line and remained alive. In the world line of any bystanders, our subject died. I argue that the subject’s perceived universe will always split in such a way to ensure his or her personal survival. The subject may die in my universe, but will go on and on in his or her own. And I am not alone in this opinion.

Physicist Max Tegmark (1998) proposed a thought experiment that applied the latest findings of quantum physics to prove that my angle on immortality may be a scientifically provable reality. Tegmark imagined a machine gun attached to a device that measures the z-spin of a subatomic particle. All subatomic particles have a z-spin, which can be “up” or “down.” The direction of spin is entirely random and, as
such, cannot be predicted for any single particle. If the detector senses a particle that has “down” spin, then it instructs the machine gun to load a single live bullet into the stock. If the particle spin is detected as being “up,” the gunstock remains empty, with the weapon just making an audible click.

In order to test the gun, the experimenter asks an assistant to pull the trigger 10 times. According to all quantum mechanical interpretations, the experimenter will hear a random sequence of live shots and duds. The experimenter then decides to put his or her life on the line for science. According to logic, the experimenter will hear, at the first trigger pull, either a click — if the gunstock was empty — or nothing — assuming that the bullet enters the experimenter’s brain causing immediate death. A lucky experimenter may hear two or three clicks before a bullet shatters his or her brain. However, according to the “many worlds interpretation,” the experimenter will hear a click with 100 percent certainty. As such, the experimenter will end the experiment having heard 10 clicks and will still be very much alive.

The experimenter will naturally conclude that there is no such thing as a random event in the quantum world. All subatomic particles that are randomly linked to the machine gun have “up” spin. Indeed, if the experimenter decided to continue the experiment for all eternity, he or she would never find a “down” spin particle. “Down” spin particles will simply cease to exist in the experimenter’s world. However, if the experimenter moves away from the gun for a few “tests,” he or she will note that probability does still hold and that bullets will be fired 50 percent of the time. Things, however, are not so good for the assistant who was asked to pull the trigger. The gun went off after the fourth attempt in the assistant’s world, and he or she was arrested and given a prison sentence.

So in order for the observer’s personal universe to continue, that observer must continue to observe. Within that universe, the observer therefore cannot die, and the “many worlds interpretation” ensures that this is the case. In each personal time-line fatal accidents are always avoided, immunity to all terminal illnesses is developed, and a seemingly charmed life is lived. I stress “in the observer’s universe” because in many other universes they do die, at least from the viewpoint of the “observer” responsible for those other universes. And that is how we experience the very real death of others. They die only in our universes, whereas in their own they go on enjoying the three-dimensional internally-generated life review, sitting in the front row of my Bohmian IMAX.
The Daemon's Perspective

What I have presented thus far is a series of interrelated observations leavened with empirical examples from the worlds of neurology, psychology, particle physics, and consciousness studies. What I am suggesting is that all self-aware beings consist of not one singular personality but two. These two entities, known from classical times as the Eidolon and the Daemon, have a curious symbiotic relationship. The less developed Eidolon, usually known as "I," is, except in certain psychological states, totally unaware of its more developed partner, the Daemon. However, the Daemon seems to be very aware not only of its twin but also of the way in which their shared life will develop. Indeed, there are many well-documented cases of prophets, seers, and clairvoyants whose ability to predict the future depended upon the prognostications of another being, such as Socrates' "Divine Sign" and Nostradamus' "Divine Splendor."

By various means, including dreams, hunches, and auditory hallucinations, the Daemon ensures the ongoing survival of its Eidolon. In doing so, it may change the future time-line of its unitary self. In fact, it changes nothing as regards the perception of other consciousnesses. All it does is send itself and its partner down a different alternative version of reality, and in doing so enters another universe, one of trillions to choose from.

I have presented evidence that all this takes place in a highly personalized version of reality, a version of reality projected into the consciousness of the Eidolon, who in blissful ignorance carries on with its life. For the Daemon, it is very different. It has already viewed the Bohmian IMAX, this being its second or even 10,000th viewing of this life. Sometimes there is a metaphorical "jump" in the recording, perhaps brought about by a leaking of certain neurotransmitters across the synapses. For a split second, the Eidolon accesses the senses of the Daemon and has a feeling that it has lived this event or circumstance before. This is a *déjà vu.*

So these are the clues, but the clues to what? This article is in a journal that deals with near-death experiences, and yet I have barely mentioned this phenomenon. However, all the above examples can be dovetailed together to give a satisfactory, scientifically based explanation as to what really is happening at the point of death, an explanation that will possibly be philosophically acceptable to all within the field, from theists to atheists. Let us now look at
what may happen at the point of death according to the Ferryman Thesis.

The Point of Death

First, we need to understand the role of the neurotransmitters, which has to do with what I have termed the “quantum Zeno effect.” This “quantum Zeno effect” is named after Zeno of Elia who, in an effort to show that motion was an illusion, devised his famous paradox of Achilles and the tortoise.

Zeno suggested that a race be arranged between the fleet-footed hero Achilles and a much slower tortoise. Because Achilles can run 10 times faster than his reptilian opponent, he agrees to give the tortoise a 10-meter head start. The starter's gun is fired and Achilles swiftly runs the 10 meters. However, because we know that he can run ten times faster than the tortoise, the tortoise will have already walked one meter closer to the finishing line. Achilles, still behind by the one meter, runs that meter as fast as he can. However, on reaching the 11\textsuperscript{th} meter, he discovers that the tortoise has walked a further centimeter. Achilles runs that centimeter, but in the time it takes him to do so, the tortoise has progressed a further millimeter towards the finishing line. Rushing along the millimeter, Achilles discovers that he is still a tenth of a millimeter behind. One can go on literally to infinity, but Achilles will never overtake the tortoise.

Obviously, in reality, Achilles shoots past the tortoise and wins with ease, but the philosophy behind this paradox has an underlying truth when it is applied to time. But more interesting is that neither the tortoise nor Achilles ever reaches the finishing line. They just move in smaller and smaller amounts of distance.

The evidence presented in this paper suggests that this is what happens to dying persons as they approach the point of death. Instead of meters, we have units of time. Let us call them “chronons.” At the moment that death becomes unavoidable, chemicals are released into the brain. These chemicals influence how the Eidolon perceives time. As regards the perceptions of the Eidolon time, seems to slow down. The human brain is very flexible in its perception of temporal flow: drugs, mood, and metabolism all contribute to time’s perceived duration.

Massive chemical changes take place in the body at the point of death. The chemicals released at that point are virtually identical to those released during an epileptic seizure. Juan Saavedra-Aguilar and
Juan Gómez-Jeria (1989) pointed out the link between NDEs and temporal lobe epilepsy, suggesting that the stress brought about by a close brush with death leads to a release of a particular class of chemical called neuropeptides and specific neurotransmitters such as endorphins, dopamine, and glutamate. These chemicals become particularly active in the limbic and temporal lobe areas of the brain and cause psychological effects during near-death trauma identical to those experienced by epileptics during a pre-seizure aura. It is therefore reasonable to conclude that all the changes in perception, particularly in terms of time perception, reported by epileptics are experienced, albeit in a much greater intensity, at the point of death.

In this way psychological time, for the dying person, begins to slow down. In effect, they “fall out of the time perspective” of any observers who may be witnessing the death. For dying persons, each second may take twice as long to pass as the previous second. As such, their consciousness moves away from the observer’s, whose seconds continue to be seconds.

What we have here is a literal interpretation of the scientific concept of half-life; only in this case it is a real life that we are talking about. Radioactive substances decay in such a way that they lose half of their radioactivity in a given period of time. For example, the radioactive isotope cobalt-60, used in radiotherapy, has a half-life of 5.26 years. Thus, after that interval, a sample that originally contained eight grams of cobalt-60 would contain only four grams of cobalt-60 and would emit only half as much radiation. After another interval of 5.26 years, the same sample would contain only two grams. However, in a real example of Zeno’s paradox, in the next 5.26 years the cobalt-60 is only one gram, and in the next it decreases to half a gram. However – and this is a crucially important point – the amount of cobalt never reaches zero; it just halves every 5.26 years from now to eternity. Put simply, it suffers from the same problem as Zeno’s Achilles: it never arrives. And so it is with our life force. We also have a real half-life that, within our own ever-shrinking temporal awareness, is a full-life.

But glutamate and dopamine also manage to do something else: they awaken the Daemon.

This is total supposition on my part, but I propose that sometime in your own personal past, you once did live a real life in a real universe. It is that life that laid down the template by which all your other lives were lived. In that first life, your Daemon and Eidolon, like Julian Jaynes’ preconscious ancients, lived as a unitary being. Your consciousness was singular and the Daemon was totally unaware of
itself as an entity separate from the Eidolon. It is reasonable to conclude that certain people with temporal lobe epilepsy or schizophrenia may have the duality from the start.

Suffice it to say the singular consciousness lived its life for the first time. Its holographic memory banks busily recorded every thought, feeling, sensation, emotion, and event that happened during that life. Because these recordings were being made as consciousness perceived them, they could not generate déjá vu sensations. This is analogous to the fact that you cannot watch the ending of a recorded television program before the videocassette has finished recording. At this stage of human development, the future simply did not exist. This is why some people have never experienced a déjá vu: they are quite literally “first timers,” living their life for the first time.

As death approached in that first life, endogenous chemicals flooded the brain. These stimulated the Daemon into wakefulness and self-awareness. Although shocked, it quickly realized what it had to do. Imagine the scene at a road accident. The paramedic is desperately trying to save the life of a badly injured man, and realizes that he is about to die. Six seconds before he does die, the endorphins, dopamine, and glutamate flood his brain and release his Daemon. As he lies on the ground, the endogenous drugs affect his psychological time.

The time between the sixth and fifth second before the injured man’s death takes one second in the perception of the concerned paramedic. However, for our dying man, the very nature of time is changing. For him, that second takes two seconds to pass. The next half-second (which is another second for the paramedic) takes four seconds for the dying man, and the next quarter-second (again another second for the paramedic) takes eight seconds. Within three seconds of “normal time,” our two people are existing in totally different time-worlds. The dying man is still back in the first second and existing in an ever-shrinking “chronon” of time. His individual seconds are dividing as time progresses. In the same sense that Achilles never overtakes the tortoise, so it is that the dying man never reaches his actual point of death. The curiosity, however, is that in the temporal world of the paramedic, the man dies.

Let us now go back again to my example of the person jumping the traffic lights. In the same way that the collision with the large truck never happens in his world, so it is that the injured man in this new example never dies in his. The reason is simply that the endogenous drugs that flood his brain as death approaches bring about a loss of temporal awareness. As we saw with schizophrenics and temporal lobe
epileptics, the neurotransmitters dopamine and glutamate literally flood the brain.

It has been well recorded that glutamate manifests itself during periods of high anxiety and stress. It is also known that glutamate in large doses can overexcite the synapses and cause a massive increase in electrical activity. Once started, this rapidly gets out of control and an epileptic seizure takes place. Our dying man has therefore moved out of time (and, it must be said, space), and is inhabiting a world within his own mind. He has, in effect, unlimited time; but what is this time for? In answering this question we must return to the Daemon.

The Daemon is now aware of what its task is to be. It is responsible for ensuring that the life review takes place, but not as it is known from the reports of NDErs. The standard description of the life review is often similar to “my life passed before my eyes in a split second.” But that is only the way the life review is recalled by a person who has returned to “normal” consciousness and “normal” time. In the real run that is stimulated by an actual death situation, the review takes place at normal speed, in a minute-by-minute equality. Each minute of the life record is perceived by the Eidolon as an actual minute. Put another way, the Eidolon lives its life again in real time.

At a microsecond before death, the dying person’s consciousness is flooded with new images, images of rebirth. The Eidolon finds itself coming into a virtual reality world as a newly born baby. Its memory banks wiped clean, it remembers nothing of its previous life. It begins afresh in a world created from recovered memories. As described by Penfield’s patients, every sound, feeling, and emotion is reproduced in perfect fidelity. As far as the Eidolon is concerned, this is all new. However, this second life has one major difference from the first one. It has a conscious and aware Daemon who has a knowledge of everything that is about to take place. As the child grows in this second life, the Daemon keeps a watchful eye over its progress. It experiences everything, and in dreams may communicate subtle changes to the progress of this second life.

As we have already seen, as the Eidolon-child becomes older, circumstances may occur in which either by accident or design the Daemon causes a “glitch” in the program. The Eidolon will be confused at these strange sensations, and may have a feeling that it has lived these events before, that it remembers what will happen next. On reading up or commenting to others, it will discover that these curious sensations are very common and are called déjá vu.
There may be occasions when the Daemon wishes to change the course of action followed by its Eidolon. The Daemon may manifest itself in many ways, as a voice in the head, a dream, or even a doppelgänger. In this way it can maneuver its Eidolon into a better position or into a situation were it may learn from experience. I term these situations “temporal mutations,” and they work in the same way that Darwinian mutations take place in nature.

However, this proposal regarding “temporal mutations” could be seen as a flaw in this carefully constructed structure. If the second life is little more than a virtual reality projection of the first, how can it be changed? After all, we cannot change the ending of a film if we do not like the plot. The difference lies in the “many worlds interpretation” of quantum mechanics and in Bohm’s concept of enfoldment. Remember that the dying person has moved outside of time and space, and exists in his or her own personal reality. However, this reality consists of a universe of his or her own making. Real people with real motivations populate each universe. Actions taken by one person will simply bring about another universe. In this way, all possible events can (and will) take place. Added to this is the idea that each universe enfolds and is contained within every other universe. In this way, changes made in one lifetime can and will affect the lives of others within their own consciousnesses. In this way, one can make right any wrongdoings of the previous life.

And so the human “soul” evolves in the same way that an animal species evolves. Equal to each Darwinian generation is a life, each one subtly changed from the last one. Note that my theory involves multiple, rather than singular, life re-runs. Like the character Phil Conners in the film Groundhog Day (Ramis, 1993), we each have endless lives to get things right. The mechanism is simply a repeat of the end of the first life. At the end of the re-run, death again approaches, and is again denied by the person’s consciousness slipping out of time. Psychological time again slows down in an exponential way, leaving Charon yet again with an empty boat.

For both the Daemon and the Eidolon, the approach of death is a stressful time. However, in terms of our own research into the possibility of the Ferryman Thesis, it is also the time that the interaction between the two should be at its most intense. The evidence seems to support this contention, in that the Daemon seems to become visible to the dying Eidolon. The interesting example below is taken from the work of psychologists Karlis Osis and Erlendur Haraldsson:

A college-educated Indian man in his twenties was recovering from mastoiditis. He was doing very well. He was going to be discharged
that day. Suddenly at 5 am he shouted, “Someone is standing here
dressed in white clothes. I will not go with you!” He was dead in ten
minutes. Both the patient and the doctor expected a definite recovery.
(Osis and Haraldsson, 1977, p. 44)

In this case, the patient did actually die, indicating that the “being of light” may be seen as part of the “real thing” as well as in “near misses.” Chemicals released in the brain prior to death appear to create a level of awareness in normal consciousness that allows perception of our Daemon, or higher self. In the case described by Osis and Haraldsson, the Daemon decided to be seen as a being that could not be recognized as another version of the self. However, there has been a long held belief that to see one’s double is a portent of death (Maack and Mullen, 1983; Rank, 1971/1925). Could this have come about when the dying reported that they could see their own Daemon as a doppelgänger? It is reasonable to conclude that, whereas some Daemons show themselves at this point, others take on the appearance of whatever person or religious archetype will instill in the dying person a feeling of happiness and joy.

It is usually reported that the Daemon spontaneously appears and that there is no perception of the bifurcation of the mind. However, it is logical to conclude that this spontaneous appearance must take place in order for the Daemon to be perceived as being “out there,” as opposed to a voice in the head or a hunch. It seems that we can sometimes actually sense this splitting process. The Gnostics considered that at the point of death the human soul splits into two separate entities. Indeed, in the Gnostic Gospel of Thomas (61:1), Jesus made this very cryptic comment: “Two will recline on a couch; one will die, one will live” (Miller, 1992, p. 314).

So at the moment of death, our Eidolon is transported back to the point at which the embryo becomes a person, the point where some form of consciousness enters the growing brain. If this theory is correct, then this can take place as soon as the neurons have developed sufficiently for the Eidolon to attach itself. At this point, the brain “wakes up” and becomes, if not fully conscious, at least aware in some basic way. Indeed, at this point dreaming will begin. The Eidolon has the opportunity to review and reflect upon what took place in its previous life, possibly under the guidance of the Daemon. This form of pre-natal dreaming is a form of what is termed “active sleep.” According to biologist Lyall Watson, the developing fetus seems to spend most of its time doing it (Watson, 1979). The
question is: what can a being who has had absolutely no experience dream about?

At birth, the density of neurons within the brain is, in a relative sense, fairly small. It is only after birth that the cortical dendrites grow and the glial cells multiply. As such, whatever mental activity takes place will be very basic. The newly born child has no concept of self or identity. It has no real consciousness, just an ability to react to external stimuli in an autonomic way. However, if this is the case, how is it that certain people claim they can remember being born, and some even claim they can remember events in the womb?

Psychiatrist Stanislav Grof came across anecdotal evidence that implied that our ability to perceive our environment and lay down memories starts very early. Patients accurately described characteristics of the heart sounds of their mother, the nature of acoustic phenomena in the peritoneal cavity, specific details of blood circulation in the placenta, and even details about the various cellular and biochemical processes taking place. They could also describe the thoughts their mother had had during pregnancy and events such as physical traumas she had experienced. When verification was later available by talking to the mother herself, these memories were confirmed (Grof, 1976).

Grof's results were reinforced by the subsequent report of a child remembering his own birth by Caesarean section (Laibow, 1986). The child in question was extremely precocious in terms of his general development. On day 1, he was able to lift his head, focus, and follow an object with his eyes. He was speaking recognizable words at 3 months and sentences at 5 months. However, it was at age 2, while sitting in the bath, that he asked a startling question of his parents. He wanted to know why the lights were so bright “when I was new.” On being asked what he meant by “new,” he explained that he meant “being born,” and said there were many things he did not understand about this.

The child did not stop with that. He went on to ask why it was that the light was circular and intense where he was but dim elsewhere; why the bottom half of faces were missing, with a green patch there instead; why someone had felt his anus with a finger; why he was put in a plastic box and taken somewhere; why liquid was put in his eyes so that he could not see; and what was inserted in his nose that made a loud sucking sound. Indeed, he went on to describe not only other experiences of his birth but also experiences he had had in the womb.
Laibow reported that the child had never seen a surgical unit nor surgical green masks, and did not know that silver nitrate solution was routinely used in the eyes of newly born babies, nor had the child seen or heard a suctioning device used in the nostrils except on the occasion of his own birth (Mollon, 1995).

This case seems to show that, contrary to general belief, memories of birth are available to certain individuals. Indeed, the curious thing about this case is that the baby had the ability not only to recall the events but also to be able to take in all the incoming external stimuli around him. How could he focus in such detail on the objects and people around him? It is generally believed that babies must learn to see things and recognize them as objects outside themselves. Here we have a newly born baby who seemed to recognize everything around him. Could it be that it is the newly born — but much older in actual lifetimes — Eidolon that recalled these images? It may take a few days for the Eidolon to forget how to process information and, as such, the birth memories are laid down fully.

It is reasonable to conclude that during the last few seconds of our previous life we will experience a full temporal lobe epileptic seizure, brought about by a cocktail of endogenous drugs that stimulate the brain into its final activities. A slowing down of time and a life review are then stimulated, and we start re-living that life again. However, as we emerge into our new life, the neurological echoes of the old are still reverberating around our brain. This can be shown by various experiments involving the attachment of electrodes to the stomach of a woman in late pregnancy. The brainwaves of the fetus are usually recorded as slow delta waves at a frequency of less than 3 cycles per second, but sometimes this regular pattern is interrupted by larger discharges similar to the spike recordings obtained from adults in an epileptic attack. As the baby approaches full term, these convulsive spikes become more frequent, until at birth they are almost continuous, as the child thrashes its way into the world. The implication seems to be that we are all born in something like epilepsy. If my theory is correct, then we die in a state of epileptic seizure and we are born in the same state.

The epileptic French writer Edmond de Goncourt was said to have described life as “a series of epileptic attacks, preceded and followed by a blank” (Bourget, cited in Lombroso, 1891, p. 342). In fact it seems more like “a blank, preceded and followed by an epileptic attack.” Could it be that by living inside that blank we finally cheat the Ferryman?
References


Cases of the Reincarnation Type with Memories from the Intermission Between Lives

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Jim B. Tucker, M.D.
University of Virginia

ABSTRACT: For the last 40 years, researchers have collected cases of children who claim to remember previous lives. In a minority of these cases, the subjects also claim to remember events that took place during the intermission between the end of their previous life and their birth in the current life. Subjects in these cases tend to make more verified statements about the previous life they claim to remember than do other subjects of reincarnation-type cases, and they tend to recall more names from that life. Analysis of reports from 35 Burmese subjects indicates that the intermission memories can be broken down into three parts: a transitional stage, a stable stage in a particular location, and a return stage involving choosing parents or conception. A comparison of these reports to reports of near-death experiences (NDEs) indicates that they show features similar to the transcendental component of Western NDEs and have significant areas of overlap with Asian NDEs.

KEY WORDS: reincarnation, near-death experiences.

At the University of Virginia Division of Personality Studies, researchers have for the last 40 years collected cases of children who claim to remember previous lives (Stevenson, 2001). These cases of the reincarnation type (CORT) typically involve children who report...
memories of a recent life at a very early age, usually beginning around
the age of 2 or 3 years and ending by the age of 6 or 7. The memories
they report sometimes involve the life of a family member or an
acquaintance. In other cases, however, children have described the life
of a stranger in another location, and people have then verified that an
individual died whose life matched the description given by the child.
We refer to that individual as the previous personality.

These cases often include other features in addition to the child’s
statements about a previous life. A number of children have been born
with birthmarks or birth defects that corresponded to wounds, usually
fatal ones, suffered by the previous personality, and many of the
children show behaviors that seem related to the previous life, such as
phobias related to the mode of death or repetitious play mimicking the
previous personality’s occupation.

In a minority of the cases, the children have reported memories of
events that took place between the death of the previous individual and
their own birth. These cases of the reincarnation type with intermission
memories, which we will refer to as CORT-I, are the focus of this paper.

Statistical Analysis of CORT-I

More than 2500 CORT from around the world are now registered in
our files, and 1200 of them have been entered into a computerized data-
base using SPSS for Windows, Version 12.0. In 276 of these, the subject
has claimed to remember not only a past life, but also a time between
lives, an intermission memory. These intermission memories are coded
into four categories: claimed memories of the previous personality’s
funeral, memories of other terrestrial events, memories of an existence
in another realm, and memories of conception or of being reborn.

Analyses were performed on the entire collection of CORT that have
been entered into the computerized database with the exclusion of
cases from Burma (also known as Myanmar). Coding of the Burmese
CORT into the database is incomplete, with some cases being chosen
because of the presence of intermission memories, so they are not
a representative sample useful for statistical analysis. The countries
in which the coding has been completed include Eastern countries
such as India, Sri Lanka, Turkey, and Lebanon, along with the United
States and Canada, and using cases from all countries except for
Burma resulted in 1107 cases, with 217 of them having intermission
memories. For the analysis, the number of cases varied for each item
Table I
Memory of Subjects and Strength of Cases in CORT-I Versus CORT

<table>
<thead>
<tr>
<th></th>
<th>CORT-I</th>
<th>CORT</th>
<th>t</th>
<th>df</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of verified statements</td>
<td>9.07</td>
<td>4.92</td>
<td>-5.04</td>
<td>776</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Names from previous life</td>
<td>3.48</td>
<td>2.89</td>
<td>-2.34</td>
<td>670</td>
<td>.020</td>
</tr>
<tr>
<td>Number of lives recalled</td>
<td>1.37</td>
<td>1.02</td>
<td>-3.15</td>
<td>141</td>
<td>.002</td>
</tr>
<tr>
<td>SOCS score</td>
<td>15.7</td>
<td>9.7</td>
<td>-8.23</td>
<td>1054</td>
<td>&lt;.001</td>
</tr>
</tbody>
</table>

based on the number of cases with the relevant data recorded. We used chi-square tests and independent t-tests to analyze these data, with a significance level of $p = .05$.

Table 1 compares CORT-I subjects with other CORT subjects on items related to past-life memories. CORT-I subjects made significantly more statements about the previous life that were verified to be accurate than their CORT counterparts. They remembered more names from the previous life, in addition to the name of the previous personality. They also tended to recall a larger number of past lives. Based on Pearson chi-square tests, CORT-I subjects were significantly more likely to state the name or nickname of the previous personality ($\chi^2 = 9.549$, df = 1, $p = .049$) and to claim to remember the mode of death ($\chi^2 = 5.388$, df = 1, $p = .020$). While our database does not indicate specifically whether the names the subjects gave were accurate, the statements by the CORT-I subjects about the mode of death were much more likely to be independently verified than those of other subjects ($\chi^2 = 23.229$, df = 1, $p < .001$), and in those cases, 84 percent of their reports of the death were either accurate in most details (74 percent) or totally accurate (10 percent).

The CORT-I were also stronger than other CORT based on a Strength-of-Case Scale (SOCS) that assigns points according to four categories of factors: (1) birthmarks or birth defects on the subject that correspond to wounds on the previous personality, (2) verified statements by the subject about the previous life, (3) unusual behaviors related to the previous life, and (4) distance between the previous personality and the family of the subject (Tucker, 2000). The mean SOCS score was 15.7 for CORT-I and 9.7 for CORT.

Other features of the cases failed to differentiate CORT-I subjects from CORT subjects. There were no differences in gender of the subjects: 58 percent of the CORT-I subjects were male, as were 63
Table II
Characteristics of CORT-I Versus CORT Subjects

<table>
<thead>
<tr>
<th></th>
<th>CORT-I</th>
<th>CORT</th>
<th>t</th>
<th>df</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age subject first spoke (in months)</td>
<td>22.69</td>
<td>22.54</td>
<td>-0.16</td>
<td>693</td>
<td>.872</td>
</tr>
<tr>
<td>Age subject first communicated about past life (in months)</td>
<td>34.07</td>
<td>35.84</td>
<td>0.60</td>
<td>917</td>
<td>.549</td>
</tr>
<tr>
<td>Number of birthmarks</td>
<td>0.84</td>
<td>0.93</td>
<td>0.42</td>
<td>1022</td>
<td>.681</td>
</tr>
<tr>
<td>Number of birth defects</td>
<td>0.60</td>
<td>0.23</td>
<td>-1.16</td>
<td>958</td>
<td>.247</td>
</tr>
<tr>
<td>Distance between previous personality and subject (in kilometers)</td>
<td>201</td>
<td>255</td>
<td>0.41</td>
<td>460</td>
<td>.68</td>
</tr>
</tbody>
</table>

percent of other CORT subjects ($\chi^2 = 1.959, df = 1, p = .162$). As shown in Table 2, there were also no significant differences in the age when the children first spoke, the age when they first communicated about a past life, the number of birthmarks, the number of birth defects, and the distance between the previous personality and the subject. The mean distances shown in Table 2 (201 kilometers for cases with intermission memories and 255 kilometers for other cases) are skewed by a small number of extremely-long-distance cases. The median distances were 20 kilometers for cases with intermission memories and 14 kilometers for other cases.

Similarly, as shown in Table 3, chi-square tests indicated no significant differences in the behaviors of CORT-I subjects and other CORT subjects. The one exception was that subjects who reported intermission memories were less likely to express memories of the previous life in their play, but that difference lost statistical significance when the Bonferroni correction was used to correct for multiple simultaneous statistical tests on related data.

Lastly, we analyzed characteristics of the previous personality with chi-square tests, as shown in Table 4. These included characteristics both of that individual while living and of his or her death, and none of them had a significant effect on whether the subject in the case later reported intermission memories. The database has information on some of these items for only a small numbers of cases, reducing the power of the tests to detect a significant change, but none of the tests for those items came close to approaching significance.
To summarize, these results indicate that only an unusually strong memory, and not any other characteristic of the subject or previous personality, distinguishes CORT-I subjects from other CORT subjects. The CORT-I subjects not only claim to have memories of the intermission between the deaths of the previous personality and their own births, but they also demonstrate more ability to recall a variety of memories from the past life. CORT-I subjects are more likely to state a name for the previous personality, names of other individuals from the previous life, and the mode of death of the previous personality, and they make significantly more statements about the previous life that have been verified to be accurate. Along with the highly significant differences in the SOCS scores, this indicates that these cases warrant serious consideration.

### Analysis of Intermission Experiences

While claimed memories of an intermission experience are rare in some places, they appear to be relatively common in Burma. While the incidence for all of the Burmese cases collected in our files is unknown,
Ian Stevenson (1983) determined that 52 out of 230 Burmese cases (23 percent) included such reports. In contrast, only 8 percent of the Turkish cases include intermission reports, and only 2 percent of the Lebanese cases have them. These cases were generally investigated more than 20 years ago, and repeat studies would be needed to ascertain if similar reports could be easily found today.

We are currently in the process of coding Burmese CORT to be entered into our database, and given the relatively common intermission reports in them, we decided to analyze those reports in depth as the cases were being coded. Analysis of 35 Burmese CORT-I led to a new scheme for categorizing the intermission experiences that subjects describe.

First, some information about the Burmese culture will allow some perspective on these cases. The prevalent religion is a combination of long-ago imported Buddhism and native animism. Buddhism is the more formal aspect, and it co-exists with a belief in nature spirits (nats) who are thought to cause trouble unless regularly appeased with gifts and displays of respect. While Buddhism predicts changes in fortune over lifetimes according to accumulated karma, the existence

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<table>
<thead>
<tr>
<th>Characteristic</th>
<th>$N$</th>
<th>$\chi^2$</th>
<th>$df$</th>
<th>$p$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode of death</td>
<td>908</td>
<td>15.189</td>
<td>9</td>
<td>.086</td>
</tr>
<tr>
<td>Unexpectedness of death</td>
<td>587</td>
<td>4.074</td>
<td>4</td>
<td>.396</td>
</tr>
<tr>
<td>Was previous personality a meditator?</td>
<td>33</td>
<td>2.159</td>
<td>4</td>
<td>.707</td>
</tr>
<tr>
<td>Was previous personality attached to wealth?</td>
<td>74</td>
<td>0.824</td>
<td>3</td>
<td>.844</td>
</tr>
<tr>
<td>Was previous personality a criminal?</td>
<td>106</td>
<td>3.264</td>
<td>4</td>
<td>.659</td>
</tr>
<tr>
<td>Was previous personality philanthropic/generous?</td>
<td>88</td>
<td>3.217</td>
<td>4</td>
<td>.522</td>
</tr>
<tr>
<td>Was previous personality religiously observant?</td>
<td>145</td>
<td>4.418</td>
<td>4</td>
<td>.352</td>
</tr>
<tr>
<td>Was previous personality saintly?</td>
<td>68</td>
<td>3.241</td>
<td>4</td>
<td>.518</td>
</tr>
<tr>
<td>Did previous personality have unfinished business?</td>
<td>107</td>
<td>6.917</td>
<td>5</td>
<td>.227</td>
</tr>
</tbody>
</table>
of nats is invoked to explain more day-to-day misfortunes, and belief in them is widespread (Nash, Obeyesekere, Ames, Ingersoll, Pfanner, Nash, Moerman, Ebihara, and Yalman, 1966; Spiro, 1978). The religious background of Burma may contribute to the increased reports of intermission memories or to the specifics of those reports.

Development of a Composite Temporal Scheme

Categorizing CORT-I intermission memories is fraught with pitfalls. Accounts of intermission experiences vary, and no two accounts are identical. There are, however, recurring themes, events, and chronologies. Keeping these points in mind, we developed a three-stage temporal scheme to describe the intermission experience and to provide a starting point for further analysis. It describes the typical chronological progression of CORT-I in Burma and highlights the characteristic events and themes of each stage. Not all three stages were experienced by all subjects, and a few subjects described typical characteristics of a particular stage either earlier or later than would be expected by the progression described below. Nevertheless, the described format suited the majority of the cases and serves as a preliminary categorization plan suitable as a stepping-stone for further analysis.

Stage 1. The first stage could be named the “transitional stage.” Nine of 35 Burmese intermission subjects recalled characteristics typical of this period. While interview notes rarely document any references by subjects to their emotional state during the intermission period, the events recalled during the transitional stage would often seem uncomfortable or unpleasant to the Western reader. The events and characters described are associated with the previous life. Subjects may see the preparation of the previous personality’s body or the funeral or try to contact grieving relatives, only to find they are unable to communicate with the living. One subject said he did not realize he was dead. Several reported being driven away by the weeping of their relatives, an experience that one subject said made him “hot.” This stage often ends as the subject is directed by an elder or an old man dressed in white to a place where he or she then stays for the bulk of the intermission experience.

Stage 2. The second stage is characterized by its marked stability compared to the other two stages. Subjects report living in a particular location or having a schedule or duties to which they must attend. Of the 35 cases so far analyzed, 19 had reports typical of the second stage.
Nine reported staying in a tree, four in a pagoda, and two remained near the place of death. Reports of seeing or interacting with other discarnate personalities are common (seven subjects). Subjects report varying degrees of comfort during this period. One subject reported being abused by other spirits who threw objects at him, and having to walk long distances. Another woman reported not being able to leave the site where she had buried her jewelry in life, but said that she was far more beautiful as a discarnate and had pretty dresses of gold. Another woman, however, who is very poor in her current life, reported that all her needs were taken care of as a discarnate and that her experience was "quite pleasant."

Stage 3. The final stage is one of choosing parents for the next life or of conception. Eighteen of 35 subjects reported characteristics of this stage. Seven reported following the future parents home, apparently on their own initiative, as the parents passed by while performing everyday tasks, such as bathing or returning home from work. Five more reported being directed to the present parents, often by elders or the old man figure referred to in stage 1. Nine commented on how they gained entrance to the mother's body. This was most often by transforming into a grain of rice or speck of dust in the water and being ingested by the mother. A few went to considerable lengths, having to try repeatedly when either they were rebuffed by guardian spirits or the water was thrown out as dirty.

Preliminary comparison suggests that this scheme is applicable not only to Burmese CORT-I but to CORT-I internationally. Stevenson (1983) reported the case of Bongkuch Promsin from Thailand, who claimed that, after the death of his previous personality, he lived in a tree for seven years (stage 2) and then followed his current father home on a bus (stage 3). Thai monk Chaokhun Rajsuthajarn reported attending the funeral of the previous personality (stage 1) and trying to interact with the guests, only to realize that he was invisible to them (Stevenson, 1983). Purnima Ekanayake of Sri Lanka reported seeing people crying at her funeral (stage 1) and going to the light to come to her new family (stage 3) (Haraldsson, 2000). Sam Taylor (an unpublished American case from our files) reported that God gave him a card with green arrows to come back from heaven (stage 3). While the specific imagery may be culture-specific, preliminary study suggests that the phases seem to be universally applicable. The further study into the details of international CORT-I required to refine this assertion remains to be done.
Comparison of CORT-I with Near-Death Experiences

The recurring thematic elements of CORT-I, particularly the visions of other beings and suggestions of being in another realm, bring to mind accounts of near-death experiences (NDEs). This thematic overlap deserves exploration. An initial comparison was undertaken by application of two NDE scales, the Weighted Core Experience Index (WCEI) (Ring, 1980) and the Near-Death Experience Scale (Greyson, 1983), to the composite temporal scheme outlined above. Some differences in accounts should be expected, since NDErs obviously return to life or continue living, while people who report intermission memories claim to recall a period after they had permanently lost a life. Furthermore, the WCEI and the NDE Scale were developed using accounts from very different cultural surroundings than the CORT-I. This being the case, we explored the differences between NDEs (as outlined in the two scales) and CORT-I using an international review of NDEs and studies of NDEs in Burma's neighbors, India and Thailand.

Comparison of Composite CORT-I with the WCEI

The WCEI consists of 10 items that are weighted differentially to produce a measure of the depth of an NDE, as outlined in Table 5. It starts with “a subjective sense of being dead” experienced by all 35 of the Burmese CORT-I used for analysis (1 point). The second item, “feeling of peace, painlessness, etc.,” was described by only two subjects (one saying, “I was quite happy” and the other stating a more ambiguous, “It appeared to be a very pleasant life”). In fact, more common were statements of discomfort, especially around weeping relatives (“the relatives started weeping. ... I could not bear it”; “We felt very hot if any of our relatives wept for us. ... We would have to flee”; “Weeping scares away discarnates”).

Nor did any of the Burmese CORT-I analyzed clearly report the next item, “sense of bodily separation.” Some reported watching their funeral (apparently not from the perspective of the body), being able to change form, or not having to eat – characteristics suggestive of a lack of bodily sensation or limitations. However, many (10 subjects) described the clothes they were wearing, usually the clothes of the deceased. The mention of clothes, particularly the clothes of the
Table V
The WCEI and CORT-I Experiences

<table>
<thead>
<tr>
<th>WCEI Item</th>
<th>Weight</th>
<th>Commonly Reported by CORT-I Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subjective sense of being dead</td>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>Feeling of peace, painlessness, etc.</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>Sense of bodily separation</td>
<td>2</td>
<td>No (?)</td>
</tr>
<tr>
<td>Sense of entering a dark region</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>Encountering a presence/hearing a voice</td>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>Taking stock of one's life</td>
<td>3</td>
<td>No</td>
</tr>
<tr>
<td>Seeing, or being enveloped in, light</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>Seeing beautiful colors</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Entering into the light</td>
<td>4</td>
<td>No</td>
</tr>
<tr>
<td>Encountering visible spirits</td>
<td>3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

deceased, makes this an ambiguous area of overlap. Based on the descriptions of their actions, however, the subjects seemed to remember being separate from their physical bodies even if they did not immediately recognize it or explicitly state it.

The next item, "sense of entering a dark region," was not reported. Many (nine subjects) did report the next item, however, "encountering a presence/hearing a voice" (3 points). This presence was referred to as an old man in white, and elder, the Authority, Hades, or the Guardian. The presence usually offered guidance through a period of transition. Only one case reported "taking stock of one's life" (chided by "Hades" for not performing a particular religious ceremony) and none reported either "seeing, or being enveloped in, light," "seeing beautiful colors," or "entering into the light." The last feature, "encountering visible spirits" (3 points), was frequently referred to (14 cases). The fact that these spirits as well as the subject were referred to as "discarnates" lends further support to a "sense of bodily separation" mentioned earlier.

Many CORT-I accounts include the three features of a subjective sense of being dead, encountering a presence, and encountering visible
Table VI

The NDE Scale and CORT-I Experiences

<table>
<thead>
<tr>
<th>NDE Scale Item</th>
<th>Commonly Reported by CORT-I Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cognitive component:</td>
<td></td>
</tr>
<tr>
<td>Time distortion</td>
<td>No</td>
</tr>
<tr>
<td>Acceleration of thoughts</td>
<td>No</td>
</tr>
<tr>
<td>Life review</td>
<td>No (?)</td>
</tr>
<tr>
<td>Sudden understanding</td>
<td>No</td>
</tr>
<tr>
<td>Affective component:</td>
<td></td>
</tr>
<tr>
<td>Peace, pleasantness</td>
<td>Rare</td>
</tr>
<tr>
<td>Joy</td>
<td>No</td>
</tr>
<tr>
<td>Cosmic unity</td>
<td>No</td>
</tr>
<tr>
<td>Seeing or feeling surrounded by light</td>
<td>No</td>
</tr>
<tr>
<td>Paranormal component:</td>
<td></td>
</tr>
<tr>
<td>Senses more vivid than usual</td>
<td>No</td>
</tr>
<tr>
<td>Extrasensory perception</td>
<td>No</td>
</tr>
<tr>
<td>Precognitive visions</td>
<td>No</td>
</tr>
<tr>
<td>Out-of-body experience</td>
<td>No (?)</td>
</tr>
<tr>
<td>Transcendental component:</td>
<td></td>
</tr>
<tr>
<td>Entering an unearthly world or dimension</td>
<td>Yes</td>
</tr>
<tr>
<td>Encountering a mystical being or presence</td>
<td>Yes</td>
</tr>
<tr>
<td>Seeing deceased or religious spirits</td>
<td>Yes</td>
</tr>
<tr>
<td>Border or point of no return</td>
<td>No</td>
</tr>
</tbody>
</table>

spirits, which would score a 7 on the WCEI, falling into Ring’s category of a “moderate experience.” Inclusion of “a sense of bodily separation” would push the composite temporal experience into the “deep experience” category. Clearly, this is enough to indicate a similarity between the reports of the two experiences.

Comparison of Composite CORT-I with the NDE Scale

While comparison to the WCEI establishes areas of overlap between CORT-I and NDEs as a whole, comparison of CORT-I with the NDE Scale highlights the contrasts between the two experiences (Table 6).
The questionnaire is divided into four categories with four questions each. The categories highlight the cognitive, affective, paranormal, and transcendental aspects of the NDE. This categorization of NDE features allows a clearer picture of how NDEs and intermission memories in CORT-I differ.

None of the CORT-I subjects claimed a clear cognitive change as a discarnate. Far from talking about an increase in the speed of time (question 1), subjects who referred to time reported definite time periods with no reference to a change in the rate of time, such as, "I was a discarnate for 7 days." No subjects reported a change in the speed of thoughts (question 2). Two subjects made statements that, if stretched, may indicate past scenes coming back to them (question 3). One said that Hades chided her for not performing a religious ceremony. Another said that spirits were shown places where they had lived and asked if they yearned for those earthly places. None of the 35 cases claimed to experience a universal understanding (question 4).

Comparison of CORT-I with the affective component of the questionnaire reveals even more differences. Only 2 of the 35 cases, as discussed before, suggested a feeling of peace or pleasantness (question 5), while several reported uncomfortable experiences. None suggested a feeling of joy (question 6) or a feeling of harmony or unity with the universe (question 7), or saw or felt surrounded by a brilliant light (question 8).

Similarly, comparison with the four paranormal questions brings out few similarities. No CORT-I subjects reported a heightening of senses (question 9), although one reported an ability to see auras during his time as a discarnate. None reported a sense of awareness of things going on elsewhere (question 10). None reported scenes from the future (question 11). And none clearly stated feeling separated from their body (question 12).

The transcendental aspect of the questionnaire displays dramatically different results. Reports of another realm were common (question 13). As discussed earlier, many encountered a mystical being or presence, such as an old man in white, Hades, or the Guardian (question 14). Many (14 subjects) also referred to deceased spirits they saw during their period as a discarnate (question 15). None reported coming to a border or point of no return, perhaps not surprisingly since they claimed to have passed on to death and not returned to life.

To summarize, both NDEs as defined by the WCEI and CORT-I include a sense of being dead, encountering a presence (often referred to as an old man in white in CORT-I) and encountering visible spirits (other discarnates or deceased relatives). Comparison with the NDE
Scale highlights the relative lack of reports of cognitive, affective, or paranormal aspects to the death experience described by CORT-I subjects, and the sizable overlap in transcendental aspects of the two experiences.

**Comparison of Composite CORT-I with International NDEs**

Both the WCEI and NDE Scale were developed from American accounts of NDEs. The few comparisons of NDEs from Hindu and Buddhist cultures suggest there are definite cross-cultural variations (Murphy, 2001; Pasricha and Stevenson, 1986; Pasricha, 1995). Thus, the discrepancies between NDEs and CORT-I described so far may be due to the application of Western standards to a Burmese sample. Ideally, CORT-I studied in Burma with would be compared to NDE accounts of Burmese subjects, but since no study of Burmese NDEs has yet been undertaken, we will use the few works on international NDEs as a serviceable proxy to review the remaining differences between NDE accounts and the experiences recalled by CORT-I subjects.

Allan Kellehear (1993) reviewed published reports of NDEs from China, India, Western New Britain, Guam, Native North America, Aboriginal Australia, and Maori New Zealand, with the number of cases in some places being very small. After reviewing several elements of NDEs widespread among Western cases (tunnel experience, out-of-body experience [OBE], life review, encounters with other beings, and another world) he found the major cross-cultural features to be encountering other beings and other worlds, two common characteristics of CORT-I. The tunnel experience, missing from CORT-I, was not reported in any of the nonWestern NDEs that Kellehear reviewed, though experiences of darkness were often present. Other features present in several but not all cultures' NDEs were also present in CORT-I. Out-of-body experiences, which were at least suggested in CORT-I, were reported from India, Guam, Native North America, and Maori New Zealand, but not from China or Aboriginal Australia and probably not from Western New Britain. The life review present in one CORT-I was reported in China, India, and probably Western New Britain, but not from Guam, Native North America, Aboriginal Australia, or Maori New Zealand. The only features that Kellehear found in NDEs from all cultures – seeing other beings and other realms - are readily apparent in CORT-I as well, and CORT-I may resemble Western NDEs as much as do the NDEs of some other cultures.
Indian NDEs and CORT-I

Similar to Kellehear's results, Satwant Pasricha (1995) found both similarities and differences between cross-cultural accounts of NDEs. Both Indian and American subjects reported meeting dead relatives and acquaintances, seeing beings of light or religious figures, being revived through the thoughts of loved living persons, being sent back from the other realm by a deceased loved one, and seeing their own physical body while ostensibly dead. The last two characteristics were not found among North Indian cases and so may not be universal characteristics. Being sent back by the thoughts or actions of loved ones is not a criterion applicable to the study of CORT-I, since CORT-I subjects claim not to have been sent back. The remaining two characteristics, meeting deceased relatives and seeing beings of light or religious figures, seem to correlate with CORT-I accounts.

Pasricha also reported six characteristics of Indian NDEs that are not seen in American NDEs. Four involve returning to life and are therefore not relevant to CORT-I, but the other two are that the subject was "taken to other realms by messengers or some one" and then was "passed on to the man with a book" containing a list of deeds or mistakes (Pasricha, 1995, p. 86). While the Burmese CORT-I subjects did not report the latter, their reports of being directed to a new place by an elder or an old man dressed in white at the end of the transitional phase sound very similar to the former.

Thai NDEs and CORT-I

Both India and Thailand border Burma, but Thailand appears to have a more similar religious climate. While Burmese supernaturalism has not permeated Thailand, Theravada Buddhism is the religion of the overwhelming majority in both countries.

Todd Murphy (2001) gathered a collection of ten NDE cases from Thai popular literature. The reported imagery seemed to be very much affected by the culture, though Murphy argued that it should actually be considered a reflection of the individuals' expectations of what death would be like rather than a reflection of their culture itself. The themes he reported were Yamatoots (servants of the God of death, Yama), the importance of merit accumulated during life, and the presence of cases of mistaken identity.

The appearance of the Yamatoots seemed to act in concert with OBEs to convey to the subjects that they were deceased and separate
from their bodies. Murphy noted that while OBEs might be found in the NDEs of all cultures, some may not recognize them as a herald of death, and thus, anthropomorphic harbingers of death such as Yamatoots might be necessary to reinforce the awareness of death. No correspondence to the Yamatoots is seen in the Burmese CORT-I, but they are seen frequently in Indian NDEs (Pasricha and Stevenson, 1986). The Burmese reports are more suggestive of out-of-body experiences like those of a typical Western NDE, even if the subjects are not aware of separating from their bodies. Rather than being explicitly told that they are dead, Burmese subjects seemed to figure it out on their own, although a few subjects reported that it took them up to 7 days to realize it.

The second Thai characteristic, postmortem assessment of karma by Yama, seems to be similar to a life review in Western NDEs, with some significant differences. The Thai version involves either explicit physical suffering as punishment for the accumulation of bad karma (for example, being forced to go thirsty if the subject never offered drinks to monks) or implied suffering in future lives (for example, rebirth as a bird). Also, Murphy reported that some cases seemed to assess the balance of good and bad done during life rather than the moment-by-moment life review reported in Western NDEs. This type of life review bears more similarity to Pasricha’s account of Indian NDEs, where messengers pass the subject on to a man with a book, rather than the Western panoramic life review. It is hard to determine from the one reported case of a life review in the Burmese CORT-I studied which model would be a more appropriate description for CORT-I generally. In that case, however, the subject reported being chided by Hades for not performing a particular religious ceremony. The reference to one specific lack and the explicit mention of a direct reprimand suggest that in that case, the life review was more similar to Asian NDEs in this regard.

The third characteristic Murphy reported, cases of mistaken identity, are also found in Indian cases but not in Western NDEs. No reports of mistaken identity have been found in Burmese CORT-I, perhaps unsurprisingly, since the subjects all died rather than getting “sent back” in favor of the correct person. The universal features pointed out by Kellehear and Pasricha and present in CORT-I are also present in the Thai NDEs. For example, dead friends and relatives were seen in four of Murphy’s 10 cases.

One of the most striking differences between Western NDEs and Burmese CORT-I so far described is the significant lack of positive
af\textsuperscript{f}ect so frequently described in the Western near-death experiences. This positive affect also seems to be missing from Thai NDEs. Murphy reported that while some subjects claimed to see heaven and feel “pleasantness, comfort, a sense of beauty, and happiness,” none reported the “ineffable” experience so often relayed by NDErs in the West. And just as common, Murphy reported, were reports of negative affect. Five of his subjects reported seeing the tortures of hell, and the reports of seeing heaven or hell are similar, in theme if not in specifics, to reports of other realms described by CORT-I subjects.

Lastly, Murphy reported an absence of the light and tunnels in Thai NDEs. While both are common NDE images in the West, they seem to be missing from both Thai NDEs and Burmese CORT-I.

\textbf{Conclusion}

Cases of the reincarnation type with intermission memories are a striking phenomenon, but since the memories are usually unverifiable, they have not been a significant focus of research up to this point. The current analysis, however, suggests that they should be carefully considered. Since the children who report such memories tend to make more verified statements about the previous life they claim to remember than do other subjects, and tend to recall more names from that life, their reports of events from the intermission period seem to be part of a pattern of a stronger memory for items preceding their current lives.

An examination of the content of the intermission memories indicates significant overlap with reports of NDEs. For the Western NDEs, this is particularly true for the transcendental aspects of those reports. For NDE reports from other parts of the world, the universal features of NDEs are seen in the intermission descriptions, and the Burmese intermission reports are similar, though not identical, to NDE reports from neighboring India and Thailand. While the differences in the reports should not be glossed over, the similarities indicate that the intermission reports by children claiming to remember previous lives may need to be considered as part of the same overall phenomenon – reports of the afterlife – that encompasses NDEs.

If the intermission reports are part of an overall phenomenon, then what do they reveal about that phenomenon? As with NDEs, the reports show individual differences and contain features that seem to be at least culturally connected, if not culturally driven. More universal themes,
however, appear to underlie those features. They include a recognition of dying, either through an OBE or through a visit from a harbinger of death. There is often then an experience with spirits or a visit to, or view of, another realm. This is frequently followed by memories of returning to life, either in a new body in the intermission cases or by reaching a point of no return and turning back in the case of NDEs.

While the latter two themes might be thought of as attempts to deny the reality of death, the first can hardly be so. In fact, the argument that NDErs create their fantasies of an afterlife as a defense against the confrontation with death is weakened by the similar intermission reports. The subjects in these cases are young children who have not been close to death and in fact would not be thought able to comprehend the concept of death; yet their reports bear many similarities to NDE reports, thus posing a problem for psychological explanations offered for NDEs. Likewise, the neurophysiological explanations that have been offered cannot explain the similar reports from healthy, young children.

More work needs to be done with the intermission memory cases; in particular, reports from various cultures need to be closely analyzed. Further exploration of these cases may also provide additional insights into phenomena such as NDEs.

References


BOOK REVIEW

Hank Wesselman, Ph.D.
Granite Bay, CA


P. M. H. Atwater's *We Live Forever* is an engaging personal narrative about her near-death experiences that joins the swelling ranks of other popular works that have followed on the heels of the pioneering work of Edgar Cayce, and more recently, Raymond Moody. Atwater leads off with the following observations:

> My personal experiences have taught me that a partnership exists between life and death, and that death, as a shape-shifter, shepherds the time we have in this world to express our selves and because of that expression, to grow.
>
> Any veil that appears to separate life from death is actually self-created by those who are afraid to recognize and accept the power of their true identity as divine beings of a Higher Order.
>
> Another agenda holds sway to life's beginnings and endings – the will of the soul. (p. vii)

These statements determine the course of this book, and the chapters that follow include foci on the inner self-helper, the will of the soul, heaven and hell, the breath of God, healing helpers, the power of prayer, and so forth, all of which will be familiar ground for those interested in near-death studies. In this sense, Atwater's book appears to be oriented toward the general reading public with little, if any, background knowledge, and as such, it is an easy read. Yet, while Atwater's conversational, folksy style of writing may engage some, it will irritate many others.

---

Hank Wesselman, Ph.D., is a research paleoanthropologist associated with the Departments of Anthropology at Sierra College in Rocklin, CA, and American River College in Sacramento, CA. He is the author of the *Spiritwalker* trilogy, *The Journey to the Sacred Garden*, and *Spirit Medicine*. Reprint requests should be addressed to Dr. Wesselman at P.O. Box 2059, Granite Bay, CA 95746; e-mail: hw@sharedwisdom.com.

*Journal of Near-Death Studies, 23(2), Winter 2004 © 2004 IANDS*
For example, on page 30, she writes: "I floated as a spirit straight up through the ceiling, observing each molecule of matter.... This was enormously fun!" Those who have been through this experience report many varied emotions and reactions, but "fun"?

In addition, her narrative suffers from her tendency to indulge in self-importance and overly inform the reader about personal aspects of her life of no interest to anyone but her immediate circle of family and friends. In this sense, I found the first four chapters largely irrelevant, and the book really began for me with chapter 5, titled "When I Died," providing the reader with a direct account of the transition experience. Yet once again, her writing is colored by her personal religious overlay which may appeal to those who are psychologically Christian, yet turn off those readers genuinely in search of a more objective perspective.

For example: on page 29, part of Atwater's account of her arrival in the afterlife state includes: "... and I saw Jesus. Words are insufficient for me to describe the happiness I felt being back with my Elder Brother, hugging Him, dancing with Him, laughing with Him." Likewise, on page 134, she proclaims that "earth is God's gift to us," and on page 136, "God does not prevent us from being who we really are." This leads me to wonder if Atwater is unaware of the new profile of divinity emerging from the awakened perspective of the secular humanists of our time.

To her credit, Atwater's chapter on her own near-death research presents the reader with a summary of some interesting findings, yet the narrative is almost entirely anecdotal compared, for example, to Michael Newton's seminal books, *Journey of Souls* (1994) and *Destiny of Souls* (2000), in which he provides the reader with relevant case studies, woven into the fabric of a narrative that is nothing short of riveting.

Atwater, like many well-intentioned writers in the transformational community, also succumbs to the compulsion to proclaim truth, risking a repeated literary descent into pompousness. Such is the case with her chapter titled "The Real Truth about Death." This includes much interesting information, again entirely anecdotal, followed in chapter 14, titled "Shared Crossover," by excerpts from her previous book *The Complete Idiot's Guide to Near-Death Experiences* (Atwater and Morgan, 2000) which is unarguably useful, yet flawed by her own culturally-determined perspective. As the French writer Anais Nin was said to have observed: "We do not see things as they are. We see them as we are."

The challenge for true researchers is to recognize this and step back, allowing them to find the universal within the personal, providing us
with an enlightened perspective of the subject under investigation. From such a place of discipline and neutrality, our personal opinions and interpretations become irrelevant.

As the Zen Master Robert Aitken Roshi once observed (personal communication, October, 1987), “Our job is not to clear up the mystery. It is to make the mystery clear.” Yet Atwater has made a worthy attempt.

References


Letter to the Editor

The Future of IANDS

To the Editor:

For the past several months, I have been thinking about writing a letter to the editor of the Journal about the possibility of broadening the scope of research reported and, by extension, expanding its readership. When Jan Holden, President of the International Association for Near-Death Studies (IANDS), requested ideas regarding the future of IANDS in the most recent issue of Vital Signs (Holden, 2004), I was even more motivated to share my thinking with you.

In my view, IANDS has served three important functions. First, IANDS has been a reliable contact point for informing the press and public, insuring that information about near-death experiences (NDEs) can be provided in a professional (rather than a sensational) way. However, since experts and professionals in the field can now be found on the internet in a few minutes, this function has become less vital. Second, IANDS has provided comfort to NDErs and, through both local and national meetings, allowed their stories to be validated by professionals and/or fellow experiencers. Despite a public that is better informed about NDEs through books, articles, and the internet, I believe that these personal encounters are still a valuable service for experiencers – though others can speak to this more eloquently and thoroughly. Third, IANDS has provided a highly reputable, peer-reviewed, professional journal, a publication that I believe has greatly enhanced the credibility of the NDE because its prestigious contributors are drawn from an interdisciplinary field of physicians, social scientists, psychotherapists, theologians, and occasional physicists. It is the future of the Journal that I would like to address more specifically.

If IANDS were to cease to exist and the Journal to be discontinued, there would be no systematic place for these researchers to publish their findings. The truth is that researchers still find publishing articles on unorthodox topics infinitely harder than publishing on some mainline topic in their fields. This is not due entirely to prejudice in any given field but often because the editor has no access to someone
knowledgeable for peer review of these articles. The NDE is not the only unconventional topic that has this problem, and this brings me to my suggestion for expanding the scope of the Journal and, by doing so, vastly enlarging the circle of potential subscribers. Ralph Hood, author of *Dimensions of Mystical Experience* (2001) and one of the premier researchers in the area of mystical religious experience, has lamented the fact that there are only two reliable outlets for scientific articles on mysticism (R. Hood, personal communication, October 18, 2004). Mysticism is discussed in an occasional article in the *Journal for the Scientific Study of Religion* and a somewhat more frequent topic in the *International Journal for the Psychology of Religion*. Both of these journals, however, also publish on other topics. Even the prestigious Alister Hardy Religious Experience Research Centre (formerly at Oxford and now at University at Lampeter, Wales) does not publish a journal on the mystical religious experiences they study.

I would like to suggest that IANDS include mystical religious experiences in the focus of both the organization and the Journal. This is appropriate for several reasons, but most importantly because many (myself included) see the NDE as either a subcategory of mystical religious experience or a closely related psychic phenomenon. When Raymond Moody began his research on NDEs in the 1970s, the Alister Hardy Centre was researching mystical religious experiences; interestingly, they found that one of the “triggers” for a mystical religious experience in their first 3,000 cases was the prospect of death (Hardy, 1979). A similar phenomenon occurred in the cross-cultural research of Karlis Osis and Erlendur Haraldsson on deathbed visions. In their book, *At the Hour of Death* (1977), they included a chapter on patients who recovered, that is, patients who had NDEs rather than deathbed visions.

IANDS has a history of reaching out to experiences of related death phenomena such as deathbed visions, post-death visions, and reincarnation. I am suggesting that mystical religious experience be added to our mission and focus of study. National and international studies on mystical religious experience, such as those reported by the National Opinion Research Center at University of Chicago, usually show 40 percent of the general population having had a mystical religious experience (Wood, 1989). There is some evidence that this number increases to 65 percent when people are interviewed rather than researched by written questionnaire (Hardy, 1979, p. 126). Pamela Kircher, physician and NDEr, wrote in her book *Love is the Link* (1995) that these folks frequently appear at her talks, tell similar
stories, and have many of the same concerns as NDErs. Other examples of researchers who have reached this conclusion include theologian Judith Cressy (1994), neuropsychiatrist Peter Fenwick (Fenwick and Fenwick, 1995), and psychologist Mark Fox (2003). Including mystical religious experience will enable us to expand our base of professional members, as well as continue the very important work that was begun a century ago by William James in his classic book, Varieties of Religious Experience (1902). With few exceptions, research into these areas is something that raises the eyebrows of one's colleagues. I call it an “Old Man/Old Woman’s game,” because most of us have job security before we pursue this type of research. Without a strong journal and organization, people will soon forget that the overwhelming majority of NDErs and mystical religious experiencers are normal and not mentally ill. Without a journal to keep this information respected academically, the public could revert to its old views, dismissing these topics as wishful thinking or worse. The Journal enables us to challenge offhand explanations as proof; when genuine questions are raised, we are able to offer a scientific alternative.

Society is never more than a few generations removed from ignorance, and history is full of examples of a very few people standing up and making a difference when it comes to knowledge. The continued presence of IANDS matters! Let’s make IANDS stronger by adding a related topic: mystical religious experiences. How about a name change to the “International Association of Near-Death and Mystical Studies” (IANDMS)?

References


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Obituary: Arvin S. Gibson

Arvin S. Gibson, a veteran near-death researcher and frequent contributor to this journal, died from complications following open-heart surgery in Salt Lake City on the eve of Thanksgiving, November 24, 2004. He was only a few weeks short of his 80th birthday when he died.

Gibson grew up in California, and served in the U. S. Army on Iwo Jima during World War II. After being discharged, he graduated from the University of California, Berkeley, with a degree in mechanical engineering. Much of his working career was devoted to research and development of nuclear energy, of which he was an articulate proponent until his death. Before his retirement in 1987, he was an Executive Vice President for Utah Power where he had been in charge of the construction of coal-fired power plants.

It was only after his retirement that Gibson began his second career as a near-death researcher, in which efforts he was assisted by his wife, Carol. Together they interviewed many near-death experiencers and eventually published several books on their research. Gibson’s most important NDE books were Glimpses of Eternity (1992), Echoes of Eternity (1993), and Fingerprints of God (1999), but his other publications included autobiographical works and even a novel. At the time of his death, Gibson was working on his most ambitious book, dealing with the contributions made by Mormons to the field of near-death studies. In this respect, Gibson was widely recognized to be the foremost authority on this subject.

Gibson held numerous teaching and service positions in The Church of Jesus Christ of Latter-day Saints, including Counselor in a Stake Presidency, Bishop, High Councilor, Elder’s Quorum President and Sunday School Teacher. He leaves his wife, Carol, their four children, and thirteen grandchildren.
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GENERAL REQUIREMENTS: Logical organization is essential. While headings help to structure the content, titles and headings within the manuscript should be as short as possible. Do not use the generic masculine pronoun or other sexist terminology.

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