COSMOLOGY & FAITH

By John F. Haught, adapted by Newsela
Since the beginning of human existence on our planet, people have asked questions of a religious nature. For example, what happens to the dead?
Human beings have always wondered how things “hang together.” Our minds can’t help but look for connections, and we remain restless until we find them. Nothing is really understandable unless we can relate it to other things.

This is why science is so satisfying. Its mathematical principles bring together everything that goes on in the cosmos. Every occurrence, science tells us, must obey the basic laws of physics. It makes no difference where they happen. If you could travel to another galaxy in our Universe you would find that the same laws of physics and chemistry work there as on Earth. The Universe is complex and varied, yet it follows the same simple scientific principles.

Before modern science came along, our ancestors were not aware of the physical truths that tie all of nature together. Nevertheless, our ancestors were just as interested in finding connections as we are. The main way in which they made sense of their experience of things and events was to tell stories about them. These stories often took the form of myths about cosmic, biological, and human origins. Understanding the origin of things helped reduce fear of the unknown.

We still need stories. Big History is a good example of the human longing for stories that hold our experiences together. We want to understand, for example, how the history of human beings on Earth is bonded to the natural world that gave birth to us. Science now allows us to tell a whole new story about our connection to nature. Remarkably, over the last two centuries, the natural sciences have increasingly demonstrated that the Universe itself has a history. Human life is just a relatively new chapter in the cosmic story. We did not float in from some other world. We blossomed gradually from roots that extend all the way back to the Big Bang.

It is enormously satisfying now to be able to tell the story of how atoms, stars, planets, cells, organisms, and minds all came to be.
What about religion?

Science and history both try to understand how things hang together. Reli-
gions do as well. Since humans first appeared on Earth, most people have
asked questions of a religious nature. For example, what happens to the
dead? Are they somehow still connected to the world of the living? The
book *The Broken Connection*, by psychiatrist Robert Jay Lifton, observes that
science has weakened the bonds that our ancestors felt between the living
and dead. In some cases, they’ve been completely broken. Scientifically
educated people now often question the connection that religions proclaimed
to find between our present life and the wider spiritual world.

Nevertheless, many of us still ask religious questions. Why, for example,
does anything exist at all? Why do living beings suffer? What happens when
we die? Why do human beings have a sense of right and wrong? How
can we find a meaning for our lives? Can we ever find a true release from
sickness, suffering, isolation, and guilt? Where can we find perfection?
What is really going on in the Universe?

Responses to these religious questions have usually taken the form of myths
and other stories. To most religions, the “really real” world is dwarfed by
the visible one that can be studied by scientists. Religions try to connect
people to this wider world. Ever since the earliest stories told around a fire,
most people have had a feeling that the world includes spirits, gods, and
long-departed ancestors. Religions strive to bridge the human existence to
these mysterious worlds. Religions seek to mend the sense of loss that
comes from meaninglessness, guilt, pain, and death.

Large portions of the planet follow the religions Buddhism, Hinduism,
Judaism, Christianity, and Islam. These religions still hold out the hope that
we can be saved from what holds us down. They each have answers to
the toughest human reality: that everything eventually dies. It is, therefore,
not hard to understand why religions have been so important to people
throughout history.
Each of Earth’s main religious traditions has countless offshoots. Religions are central to the history of human existence on our planet. It makes sense that they interest scientists and not just historians and religious scholars. Religions have played a powerful role in shaping the awareness of most people who have ever lived. Any survey of big history, therefore, cannot ignore that.

The question of science and faith

In the age of science, however, what are we to make of religions? What should we think about the connection they draw between our existence and a world that can’t be scientifically analyzed? Hasn’t science made religious symbols, narratives, and teachings hard to accept?

For simplicity’s sake, we’ll refer to all a religion’s hopes, stories, teachings, wondering, prayers and ceremonies as “faith.” The traditions of faith come from a time before humans discovered science. Can human minds shaped by faith honestly take modern science seriously? Or, if you develop a sense of big history, can you still honestly accept the teachings of a faith? Does belief in God, for example, go against science, as many educated people now argue? Isn’t it hard to be both a serious scientist and a person of faith? Or is there a way of making a connection between science and faith?

Humans and their religious instincts are as much a part of nature as rocks and rivers. It is not my task to answer the question of religion. However, it is appropriate at least to take note of its existence. It raises questions about humanity. What does it say about the Universe that it has given birth to fully aware beings who want to connect their lives to worlds that science cannot see?

Many scientists, philosophers, and skeptics wish that religious faith would just go away. They’d prefer that only science would remain to fill our minds and hopes. Others, however, think that scientific discoveries still raise questions that science alone is powerless to address. For example, why does the Universe exist in the first place? What is the point of the 13.8-billion-year-old cosmic story? What are we supposed to be doing with our lives if we are a part of a Universe that is still coming into being? Is there any solid reason for hope in the future?

There are at least three main ways of responding to questions that science raises for people of faith.

| CONFLICT | The natural sciences and religious faith are incompatible |
| CONTRAST | Science and faith are each concerned with different kinds of questions |
| CONVERGENCE | Science and faith inevitably interact |

Shape your own answers. Make your own connections and find your own way of understanding the beginning and how things “hang together.” For most people, these are questions that will not just slip quietly away.
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