

Cosmology and Globalization

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Abstract. Exploring cosmological concepts and the emergence of life at astronomical scales offers valuable insight on the human role in global evolution. New dimensions of research await cognitive psychology and consciousness.

1. Introduction

Microbes swarming on a sand grain planet or integral complex organisms evolving consciousness at the forefront of cosmic evolution. How is our new cosmology contributing to redefining who we see ourselves to be at the edge of the 21st century, as globalization and capitalism speed forward? How is the evolution of stardust and the universe offering new paradigms of process and identity regarding the role, function and emergence of life in space-time? What are the cultural and philosophical questions that are arising and how might astronomy be contributing to the creation of new visions for cooperation and community at a global scale? What is the significance of including astronomy in K-12 education and what values can it offer modern youth?

Exploring our new cosmological concepts and the emergence of life at astronomical scales may offer valuable orientation toward reframing the human role in global evolution. Considering new insight from astrobiology, each diverse species has a definitive role to play in the facilitation and functioning of the biosphere. Below is a reflection of possible roles of the human dynamic. As well the question arises as to the presence of any sort of ethic inherent in or implied by natural science and offered by our rapidly expanding cosmic frontier.

It may be that what we call ethics is an emergent reality arising out of the inherent nature of cosmos as an expression of (a) singularity, or non-dual undifferentiated integrity. Truth is then the very fabric of reality, -the integral unfoldment, enfoldment and dynamic of the singularity. Goodness is that which perpetuates reality's intent or intension - literally the tensions giving rise to cosmos' emergence, perpetuity, realization, process and rhythmic transcendences. Beauty is perhaps an experiential property of the resonance and harmonics of the fabric, deeply related to wisdom regarding totality. Thus, it is the inherent wisdom in the integrity of the whole that facilitates the arising of the existential experience of that which we call beauty. Other values may be combinations of vibratory complexities arising from the blending of varied principles in space-time, or unique emergent identities or qualities. Future cognitive research will explore the diverse effects on consciousness of our new encounter with cosmos.

Cosmology and globalization are our new frontiers. We are being invited to champion infinity not as an hor d'oeuvre but as a main course. Infinite possibilities, potentially infinite worlds, realms and cosmoi, - and most certainly, infinite co-creativity. We are exploring new ways of revisioning ourselves, our

relationships as nations and cultures on our tiny global satellite, our relationships as humanity to the global collective biosphere and biocosm.

Within our bodies and minds, the entire global effort of 4.6 billion years of Earth evolution and $13.7 + B$ yrs. of cosmic evolution, - perhaps infinite harmonics of infinities of universes, are uttered and reiterated incessantly. Each cell and nerve, all of our actions, thoughts and dynamics, - move, pulse and dance to the cosmic choreography. The entire scope of reality is generated as infinite infinities of interactive fields, iterated and reiterated over cosmic and global histories, continuously converge and omni-suffuse. At the meeting of each converging set of arcs of infinity, multi-dimensional nexus are generated. Complex convergences become causally significant, acting as foci or tension vortices for the emergence of subtler or more complex dimensions of identity and awareness. This is the quantum fabric of reality.

Our most ancient philosophies and sciences discourse upon the interrelationship between the cosmos and the complex human organism. We are beginning to explore these correlations, such as the nature of the heart and surging rhythms of polarized plasma in the orb of our sun and other stars. The entire history of the universe may be traced through each and every particle. Rays of light and energy from the first instants of cosmogenesis surge through our bodies incessantly, along with that from countless stars and galaxies in the continuous spectrum of frequencies. The gravitational direction of cosmos, its dark matter and energy, and galaxy clusters move our moments. Cosmos, it is now being proposed at the edge of modern astronomy, may be a self-aware incessantly emerging fractal; perhaps countless cosmoi are multi-dimensionally superimposed.

We begin to understand the profound integrity of the human life system, its bio-rhythms, the correlations between organs, senses and environment, and its integral nexus of meridians, points and interactive fields with the cosmic scheme as proposed by certain of the ancient oriental medical systems. In Hwa Yen Buddhism, the human is actually transposed through the process and stages of enlightenment, awakening and various practices, into a foundational support for the entire dimensionality of cosmic life expressions. One is literally said to awaken to the universe(s) - infinity - as the fabric of one's cosmic form. On the human stage, the seeds of all the unfolding worlds are said to be the centers, organs, glands, systems and charkas of the bio-organism.

In the realms of the new sciences, movement toward the *singularity* has come to refer to the glitches or phase transitions in our cognitive and bio-technical capability to transcend our mortality and the sense of finitude. Life moves as a wave through varying dimensionalities, assuming the informed states natural to its convergence with those dimensionalities. If how we see things has definite effect on who and what we experience and express as *ourselves*, then new dimensions of research await cognitive psychology: discerning the bio-psychological and creative effects of our visual and intellectual encounter with the span of cosmic identity as we are perceiving it. We are finding that life itself is the most radioactive element: creative mind catalyzing consciousness, culture, the calculated fabric of reality's weave, cosmos' emergent neural net and heartbeat. Our questions now at the scientific frontier: What is *dark energy*, the hidden cosmic magnet impelling cosmos into existence and beyond? And what is *consciousness*?