

Aboriginal Wisdom and Advanced Physics: Co-Creative Existence ~ Neil Rusch

Galileo Galilei (1564-1642), observing the moons of Jupiter, accidentally –because he was attempting to find a measure of time that would solve the problem of longitude- set in motion a line of investigation that was resolved by the Danish astronomer, Ole Roemer (1644-1710), who established the speed of light sixty years later using, as the basis of his calculations, the moons of Jupiter. What began as an inquiry attempting to solve a problem of navigation...has had profound consequences for cosmology.

Light is the most rapid means through which one part of the universe can relay an impression, through space, to another. Light thus considered moves us into deep time, a measure of which is the speed of light. Another measure of time derives from inconstancy of light... in the cycles yielding *days and nights; spring, summer, autumn, winter- the seasons; years*. The diurnal nature of light generates and animates organic life on Earth. By this account, light motivates change and process, while light speed, as a constant, is unchanging and eternal, although paradoxically in motion. Light's dual nature- constant but shifting- impinges on us, and we live the contradiction of being in one place at two times: both times in the same place: one world, two modes of apprehension, timely and timeless, (*one face turned toward the transpersonal and another face turned towards the individual personality*)

...Progress in science and technology through the seventeenth and eighteenth centuries advanced the hegemony of a philosophy of objectification and strengthened mechanistic understanding. *As a conception of the universe it stands in contrast to sensate perceptivity and lived-body experience. In this latter formulation, intellect is not alien to physicality but rather physicality and a listening body play upon intelligence and visa versa.* As a way of being in the world it is productive of a relational ontology that emphasizes sentience and interdependence.

Psychological wellbeing and individuation requires meaningful integration of polarities, otherwise *left and right remain divided*. The universe depends on our search, with conscience, in the dark places for the sake of our souls and that of the cosmos. Invariably quarrels arise in consequence of cultural incompatibilities but there is equally a deep unifying and universal hope and healing in the concept of co-creation. Nestled within co-creation is understanding, which suggests that interdependency is the fabric of existence, the acceptance of which requires responsibility and care.

This is a story of metamorphosis. In it humans play a part in the transformational process required for the maintenance of the cosmos. The universe that is portrayed is not simply created from above but is elevated from below as well. Human participation is required as a fundamental principle in co-creation. The en-framing structure of the story... *the earth's things and the sky's things are cultivated through mutuality and reciprocal exchange... Light and energy are not static but transforming and transformational.*