

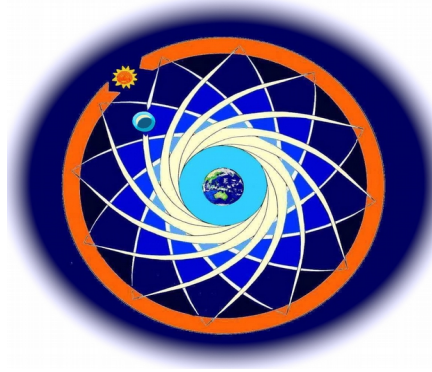
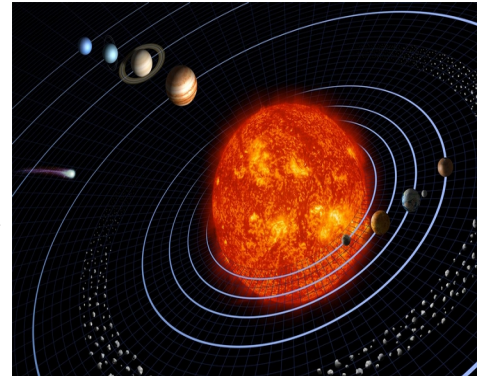
An experiential astronomy sees the photon that lights the Earth.

Ian Turnbull. Findhorn. Scotland. August 2023

Abstract:

Humanity is entirely adapted to seeing how the Earth, along with the captive Moon, and the inner and outer planets, revolve together around the central Sun.

Whereas this conceptual understanding sees our planetary system from the outside, from above, as-it-were, this paper seeks to record the Earth-bound observer's experience of being inside the field of Light coming from the Moon and from the Sun in the course of a year. A year being as a unit of time for this particular lighting effect and therefore the appropriate duration for this experiential form of astronomy.



The outcome of this inquiry indicates how the light from the Moon and the light from the Sun combine to create for the observer, and indeed, for all life on Earth, the annual experience of being within a circulating field of waveform and particle energy. An 'energetic effect' that physics has observed at the atomic level and knows as a 'photon'.

This inquiry concludes with the perception of how parents traditionally and instinctively conform with this same photon dynamic to create a unified field that conveys their love and light on down to their children. This interpretation blends physical and metaphysical observations which together indicate that 'photons' are universal devices, whose primary function is to transfer quantum units of whole Light (electromagnetism+gravity) from one dimension (or generation) to another.

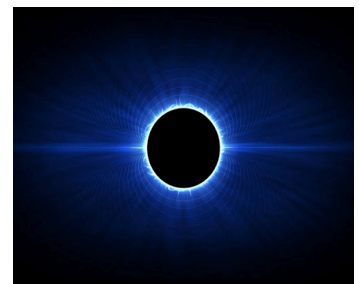


Introduction. I am a British man, but born in Kenya, in 1943. Kenya was a British Colony at that time and my father was part of the civil administration. Along with a brother and sister, we lived in a fairly remote and sparsely populated area. I remember with nostalgia and gratitude the earthy simplicity of those years spent amongst nomadic and pastoral African people. The area where we lived was without a supply of electricity, so our home was lit by oil lamps in the evening, while outside, the semi-desert landscape was lit by the ever-changing light of the Moon at night, and by the Sun's hot bright light during the day.

I saw on many occasions how these two heavenly bodies were the same size. I observed an eclipse of the Sun by the Moon through a piece of smoked glass, and saw how these two bodies are visually the exact same size. And no one thought to tell me otherwise.

Then, at around the age of ten, we kids were sent to be schooled in Scotland. Here I learnt about the Sun-centred nature of our planetary system and how the Moon is but a minor satellite locked in orbit around the Earth.

I will fast-forward this account to the time when I was an adult, now working in Canada as a geologist, now married to an Irish woman, and with three young children. I recollect the evening when we were out walking with the children and marvelling at the night sky and I overheard the kids comment on the identical size of the Moon, which was rising in the East, with the Sun, that was setting on the western horizon. Then I remembered my own childhood experiences of their parity and the Garden of Eden feeling of being safe in a world watched over by these two reliable heavenly figures who were the exact same size.



By this time, I had learnt that the Moon and the Sun share the same period of rotation. This simple piece of information had a big effect on me. I had reconciled myself to accept that their apparent identical size was pure coincidence. To then discover there is another profound synchronicity within this same heavenly partnership, and learn that this too is regarded as mere coincidence ... was simply too much for me to accept. I remember my bewilderment and disbelief on hearing this information and my determination to look again at and into this heavenly conundrum.

Mapping our experience of the Light that lights the Earth.

I feel it necessary to comment on how world society has changed in my lifetime. In large measure by the rising tide of power and rank of women in society, and for feminine values everywhere. In hindsight I would say that I found this process supportive of my general interest in the subjective nature of universal phenomena. For example, it gave me leeway to contemplate and develop a metaphysical view of our planetary system.

While I had assimilated and liked the Solar System concept, I also registered how Copernicus and now Modern Astronomy takes for granted the ever-changing qualities of the Light that lights this planet.

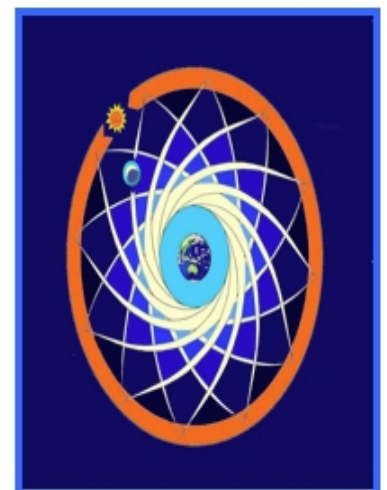
Our masculine mind, often referred to as our 'left-brain', excels with its ability to study and analyse and describe the objective nature of phenomena. Without leaving our planet, we have determined the diameter of the Sun as 1.39 million km., while that of the Moon is 3475 km. This information satisfies and hugely influences our rational mind, gives it an authority and outlook that then overwhelms the observations of our 'right-brain', which are typically the pre-conceptual view of children, or aboriginal people, while also being home for the 'feminine gaze'.

These were the elements of the intellectual conundrum I was trying to work out for myself. In the process, I felt it useful to map my experience of the different kinds of light coming from the Moon and from the Sun in the course of a year. It has to be for a whole year, since this is a unit of time for this particular lighting effect. I explained the exercise to the children and heard their misgivings at the thought of sitting outside for a year with pencil and paper while trying to follow my plan. Their response helped me realise that we only needed to track the light coming from this heavenly pair for a month, for a single lunar cycle, and then we can multiply its experiential shape twelve times or thereabouts, to create an idea of the whole shape of the year-long lighting effect we feel we are within.

In fact, by recording the position of the Moon and the Sun at the same time each day, we largely eliminate the effect of the Earth's daily rotation, which otherwise keeps turning us away from observing and charting the different qualities of the light coming from these two heavenly bodies.

An experiential astronomy seeks to record our experiences of the light coming from each of these heavenly bodies. It is the qualities of the two different streams of light that we are seeking to record and value. We are not concerned in this study with the size or appearance or fabric of the light bulbs. We are not particularly interested in how far away (or close) they might be. It is more the quality of the light that is important.

We see the Sun's light as pretty constant. It changes of course with the seasons, loses some of its warmth and brightness in the winter, becomes more intense in the summer. This is a consequence of the tilt of the Earth, and of the changing 'thickness' of the Earth's atmosphere. Effects that I have sought to filter out. Sunlight generally has a constant quality, being as a steady stream of bright energy that illuminates the Earth each and every day. In the course of a month, we observe how the source of this stream of particle energy moves 30 degrees right to left in front of the fixed curtain of stars that are in effect stationary in the background. The year-long apparent movement through 360 degrees marks the size and duration of one complete lighting cycle.



Meanwhile, the light we experience coming from the Moon is far more changeable during this same period. We register how moonlight first appears as a distant thin crescent which then, day after day, night after night, grows larger and seemingly comes closer, until the time of the Full Moon, which is the half way point of the lunar cycle with its wave form effect. Now the moonlight conveys a range of motherly qualities, being comforting and watchful and approving. After this, the moonlight began to thin in quantity and quality, or so it feels. The

tranquil nature of moonlight diminishes in the waning period, as the light fades and recedes into the distance. Finally, this quite neutral and washed-out form of light disappears into the Sun, or so it seems to us.

This composite image represents our overall experience of the whole field of Light which forms around the Earth in a year, which is a quantum unit of time for this whole lighting system. The Moon in fact completes between twelve and thirteen of her wave-like cycles during the course of a year.

My drawing simplifies her activity to twelve complete cycles. So it is an approximation of our annual heavenly experience. The latitude of the observer is bound to influence the overall shape of this annual experiential effect.

Now look with scientific acumen at this annual effect, and see in our mind's eye how the Earth is within a pulsating field of particle and waveform energy. A field that has all the attributes of what our work in the Atomic realm has identified and knows as a '**photon**'.



We have come to think of photons as 'units of whole Light', that exist primarily at the atomic level. The ancient understanding of 'Light' being as a Constant within the Universe, makes it sensible for us 'observers of the Universe', to expect to find the same light-giving, light-forming phenomena of a photon to be present and at work in each and every dimension of this remarkably symmetrical universal system we are within.

The apparent size of the 'heavenly photon' that lights the Earth is of a magnitude that matches the scale of the Solar System. The form of this energetic effect can not be seen from the outside. It is strictly an experiential reckoning. To my mind the whole effect provides insight of dynamic processes, such as the symbiotic union of particle and waveform energy, and the symbolic partnership of Gravity and Electromagnetism, representing as they do the energetic qualities of the Sun and the Moon.

The photon effect, the same as the Solar System concept, presents itself as an hologram in our mind'e eye. We humans, we Humanity, are the agents with the discipline and intellectual acumen able to observe and document these two different views of the same energetic system. The outside view is a map which shows where the Sun and the planets are in relationship to each other. We need this map in order to navigate our spacecraft to rendezvous with any one of the moving planets. Meanwhile, the inside view provides us with insight of how archetypal forms of masculine and feminine energy work together, in this instance, to light our planet.

Here is a realisation that I think has universal applications. It might even be that the steadfast enduring relationship of the Sun with the Moon, with the Earth as their love child, is cause enough for the existence of the Solar System.

Thoughts for the physics and metaphysics of astronomy.

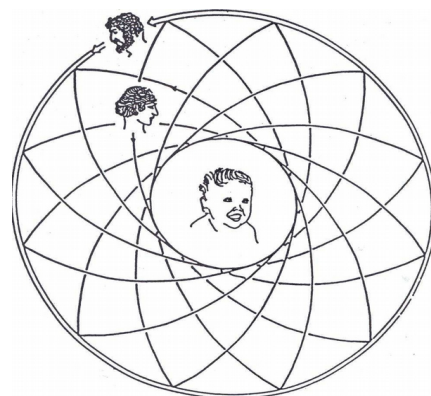
My thesis, by which I mean my personal experience, is that when we combine perceptions of the physics and the metaphysics of phenomena, then we engage the two kinds of knowledge that together allow us to see the universal nature of our Universe. Our dual-processor brain is designed for this kind of dualistic analysis. It can then generate holograms that combine the different kinds of information that our left and right-side brains are able to distinguish and store. This process allows us to recognise the 'photon effect' which is a characteristic outcome when archetypal forms of feminine and masculine energy work together.

The most visible and reliable example of this process in my opinion is our local Sun-Moon-Earth system. This in turn provides us with a template for identifying the purposeful union of masculine and feminine forces in other settings.

The concept and experience of a photon lighting this planet provides a simple and immediate explanation for the remarkable healthiness and fecundity of the Earth. The unified yet singular effect of an integrated field of 'feminine power' and 'masculine strength' pulsating routinely (say 12 beats per annum) around this planet (possibly for 2 or 3 billion years), feels cause enough to explain the abundance of life forms that have developed and evolved within this stable comforting field of whole Light.

Here, in this familiar homely Earthy setting, I would suggest that our very own family systems provide a multitude of personal and impersonal examples whereby we can observe how the ubiquitous photon dynamic is hugely formative within us humans, 'coding' many processes of our family lives, and formulating this same behaviour within many other species who populate this planet.

In the modern era, where our sense of the celestial realm is dominated by the outside view of our planetary system, this internal view needs an introspective curiosity that spills over to see the universal nature of this lighting system we are within, and in the process, glimpses our own universal nature.



This train of thought leads me to think that the concept of a 'planetary photon' might well serve the inquiry going on these days and years, to identify exoplanets which might be conducive for life to develop.

What is good for us, for this planet, already serves as a benchmark for investigations that seek to identify planetary bodies that exist in the same setting. While a 'photon of whole Light' is an experiential effect, and not normally discernible from the outside, yet I imagine there are ways of observing and measuring planetary or star systems for data that matches the Sun/Moon configuration that benefits this planet.

In the end, I am moved to think that we would be wise to consider the synchronous celestial partnership of the Moon and the Sun as part of a wholesome, purposeful cosmic design. A mythical metaphoric process that needs valuing by our left brain even while its existence emerges from experiential observations made by our right brain.

Speculative thoughts about "woman and man-made photons" and the Atomic realm.

The simple wonderment that comes with an experiential view of our heavens helped me understand how the Popes and Catholic Hierarchy of medieval times were totally absorbed by the singular experience of the whole Firmament rotating around the central Earth. And then, from within the very ranks of the Catholic Church, curious clerics like Copernicus and Galileo with his telescope began to study the Firmament, and saw details that required further investigation. Slowly, over many years, meticulous observations by many astronomers would lead to the understanding of the Earth being one of eight planets rotating around a central star, which is the Sun. However, in this male-dominated field of study, the knowledge left-out from the evolving patriarchal perception of the heavens was and is the quiet constant presence of the Moon.

Now, to my mind, we have the intellectual acumen to see how the the photon effect create by the combining light of the Moon and of the Sun is the vitalising power that animates this planet. My understanding, which I will develop more fully in a subsequent paper, (to be posted on this same site within a month), sees how we humans, we Humanity, have the potential to work collectively and create photons with the 'feminine power' and 'masculine strength', that are universal forces here within ourselves. My sense is that this social technology will provide us with an 'energetic tool' that will be able to influence processes and events at the atomic level. For instance, to stabilise the unstable elements, typically uranium and thorium and plutonium.

By this means, we might be able to address the nuclear issues that trouble our time.

Thanks for looking in and reading this account. It has been many years germinating, and I hope is now quite accessible.

Ian Turnbull. Findhorn. Scotland. August 2023.